TEN RECORDS TO JUDGE SPEAKERS BY

SPEAKERS
How to Match Them to Your Room, Amp, and Taste-
AN EXCLUSIVE NEW METHOD
Pioneer HPM-200
5-way 5-driver system

Pioneer HPM-100
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CIRCLE 27 ON READER-SERVICE CARD
It would be foolish to create a new line of speakers and not overcome these obstacles...
The HPM series.

Four radically new speaker systems specifically designed to beat the best.

You can't beat JBL, Advent, Bose and AR with me-too ideas. They're really good speakers.

So, instead of just trying to make better conventional speakers, we knew we had to come up with a totally different and superior design concept.

After years of research and development, our engineers found the answer. They created a whole new technology based on the electrical properties of High Polymer Molecular film. The result is a sound that's louder, clearer, more natural, lower in distortion than you ever expected to hear out of a speaker system.

HPM film technology requires no magnet, no coil, no cone or dome, no moving parts at all. The amplified signal is converted into sound waves directly at the surface of a thin, light membrane. And the entire structure housing the membrane can be curved for the best possible sound dispersion.

Pioneer's new HPM drivers combine high efficiency with amazingly accurate transient response. Distortion is virtually nonexistent even at very high sound-pressure levels. The principle was evolved mainly for tweeters, although a giant HPM woofer is at least a theoretical possibility.

In each of the new Pioneer models shown here, regardless of price, the top end of the audio spectrum is reproduced by an HPM driver. In the big HPM-200 system, so is the upper midrange.

The woofers used in the HPM series are almost as unconventional, even though they still have cones. But what cones! They combine low mass and high rigidity to an unprecedented degree, thanks to an exclusive method of reinforcement with carbon fibers. As a result, they move as true pistons, without any of the smearing of bass frequencies experienced with ordinary cones.

Of course, the proof of a new speaker technology isn't in the telling but in the listening.

If the new HPM speakers didn't have audibly more impact, more detail, more transparency than the best previous speakers at comparable prices, our engineering effort would have been a meaningless exercise. There are certainly enough speakers on the market today.

So we invite you to listen and compare very carefully. Match the HPM in the price range of your choice against the corresponding speaker on the far right, or anything else in your dealer's showroom.

We think you'll end up agreeing that a good new idea beats a good old idea every time.

U.S. Pioneer Electronics Corp.,
75 Oxford Drive, Moonachie,
New Jersey 07074.
Discover The Fourth Component!

What is your First component? Is it your receiver? Your turntable? Your speakers? Or is it your phono cartridge?

We have become convinced that it really is your phono cartridge, even though we have been modestly advertising it for the past few years as your Fourth.

Let's face it, the cartridge is that important first point where the music begins, and if the stylus cannot follow its path accurately, no amount of expensive equipment...speakers, turntable or receiver...can make up the distortion it can produce. That is why you need a cartridge you can depend on. One that's the best your money can buy. Specifically, a Pickering.

Because a Pickering cartridge has the superior ability to "move in the groove", from side to side and up and down, without shattering the sound of your music on your records.

Because a Pickering cartridge possesses low frequency tracking ability and high frequency tracing ability (which Pickering calls traceAbility™). It picks up the highest highs and the lowest lows of musical tones to reveal the distinctive quality of each instrument.

Because Pickering offers a broad range of cartridges to meet any application whether you have an automatic record changer, or a high quality manual turntable, a stereo, or a 4-channel sound system. Your Hi-Fi dealer will be able to recommend a Pickering cartridge that is just right for your system.

Your stereo cartridge is the First part of your music system. It is too important to overlook, and so is a Pickering.

For further information, see reader service card or write to Pickering & Co., Inc. Dept.HF, 101 Sunnyside Blvd., Plainview, N.Y. 11803

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After Many a Summer

I don’t know about you, but I have sorely missed having an up-to-date Schwann Artist Issue, which recently made its first appearance since 1970. It is an invaluable reference, with many more uses than finding out what the Southern Baptist Theological Seminary Choir has recorded. Since it is catalogued by instrument (including baton and voice) and relates to the monthly Schwann more or less as Roget and Theodore Bernstein combined relate to Webster, it can resolve any number of questions, solve any number of arguments. For instance:

What was that marimba thing I heard last month?

How many recordings are available of David and Igor Oistrakh playing together?

Sure, it’s Mignon Dunn, but what’s the first name of that soprano Dunne, with an e?

Who conducts I Solisti Veneti?

Is Dixie Stewart a soprano or a mezzo?

What recording can I get that will let me know what a chitarrone sounds like?

Has Maurice Abravanel recorded with any groups besides the Utah Symphony?

Who’s that tuba virtuoso again?

Because some two-thirds of the recordings listed in 1970 are no longer available today, the two issues complement each other. Soprano Sara Mae Endich, who appears on only three current recordings, had ten listings in 1970; violinist Jean Fournier, who had three listings then, isn’t included at all today. You’d better avoid arguments about them unless you still have the earlier edition.

In fact, a complete set of all eight Artist Issues would resolve most questions about who recorded what—at least on LPs. You’d still have holes where a recording appeared after one edition but had been cut out before the following one, and these gaps have widened with time. To illustrate, in the initial June 1953 issue (when pianist Ray Lev—remember?—who hasn’t been represented since the beginning of the Sixties, had five listings) was the following notice: “Approximately every six months an Artist Listing Issue will replace the regular composer listing issue.” But the next edition didn’t come out until 1956, when it became a biennial; after 1960, a triennial; finally, a quadrennial; and now the six months have become six years, all the result of the economics (or lack of it) of publishing. And the price increases over the years have reflected the situation: no cost in the early years (except friendliness with your local record dealer); 35c by 1956; 95c by 1963; $1.75 for the 1970 issue; $3.95 for the current edition—and still worth every nickel.

As with any special issue, Schwann sent along a statistically oriented press sheet to us. For your interest, there are listed 1,012 conductors (down 87 from 1970): 641 pianists (the Brendel listing beats Rubinstein 64 to 631); 247 violinists (Heifetz 57, Oistrakh 47), 120 harpsichordists (Leonhardt 37), and 50 other instruments represented. Fischer-Dieskau leads 1,268 singers with “106 records under his name,” and the Philadelphia Orchestra under Ormandy comes in at 297. Note the “under his name,” though. These figures are just lines in Schwann. The Humbert’s 5-disc Beethoven sonatas set counts as one, as does each of the six 4-disc albums in “The Heifetz Collection”, Fischer-Dieskau’s 6-disc “Gotterdammerung” gets one point, as does each of two 19-disc Ring cycles, of which Gotterdammerung is a part—but whereas something like his Das Lied von der Erde, which appears both singly and in a set, counts as one because both listings are on the same line, every “excerpts of above” following an opera rings up another point.

See what sorts of things one spends time on when a new Schwann Artist Issue comes out?

Leonard Marcus
Elegant Protection

Record wear . . .

has two primary causes. One is surface indentation caused by micro-dust which gets welded into vinyl. The other is adhesive contaminants on the stylus which grind away record grooves.

For record longevity, there is no substitute for a properly adjusted arm and cartridge—and regular audio hygiene.

Powerful scientific research has produced the Discwasher System and the only Stylus Cleaner—the starting point for record preservation on a daily basis.

SC-1
a. Calculated density cleaning fibers.
b. Magnifying viewing mirror.

Discwasher System
a. Unique slanted fibers which pick up dust.
b. Capillary absorbancy.
c. Non-extracting fluid.

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Receiver offers audio tolerances that will satisfy the most intolerant.

The Onkyo Servo-Locked Stereo Receiver was engineered for the audio purist. Judge the features for yourself.

The new Servo-Locked circuitry automatically zeros-out drift and cancels out distortion to a degree that surpasses the requisites of the most demanding audiophile.

There are still more refinements. Multiple tape inputs to dub your own program material. A solidly built large flywheel tuning knob makes the tuning needle glide effortlessly over a wide, 8-inch linear precision divided tuning panel. Aluminum and brushed aluminum panels and easy to operate controls for every function.

The TX-2500 provides superb performance. Tested according to precise FTC standards, the TX-2500 delivers 27 watts per channel, minimum RMS, both channels driven at 8 ohms, from 40Hz to 20kHz with no more than 0.5% total harmonic distortion.

The wide frequency response main amplifier provides exceptional transient response. Dual oscilloscope traces, with a 50Hz square wave fed through, have shown less than a 5% tilt (sag) as opposed to a 25-50% tilt (sag) found in conventional amplifiers tested under the same conditions.

Compare the Onkyo Servo-Locked Stereo Receiver on any basis, including value, and you see why audiophiles choose Onkyo.

For more information and the name of your nearest dealer where you can see a demonstration of the TX-2500, write to Onkyo today.

Onkyo U.S.A. Corporation
Eastern Office: 25-19 43rd Ave., Long Island City, N.Y. 11101, 212-729-2323
Midwest Office: 935 Sivert Drive, Wood Dale, Ill. 60191, 312-595-2970
Canada: Sole Distributor, Tri-Tel Associates Ltd., 105 Sparks Ave. Willowdale, Ontario, Canada M2H 2S5, 416-499-5044
Coming Next Month

In July we add our voice to the general chorus of 'Happy Birthday' for our nation. Irving Lowens' 'Music in 1776' is a colorful and panoramic view of the Colonies' thriving concert life and the effect the Revolution had on it. Albert Fuller examines Thomas Jefferson as Musician and Ben Franklin will be heard from in an unusual role: music critic. Three major Bicentennial Recording Projects that range widely through American music will be described by men close to them. And if you plan to travel to Bicentennial events, you will want to read Ivan Berger’s 'Car Stereo Goes the Component Route.' Among the new recordings in review will be Scott Joplin's 'Treemonisha'; regulars Gene Lees and John Culshaw will offer their customary insight and wit; our High Fidelity Pathfinder is Norman Pickering; and there will be more.

SOLUTION TO HIFI-CROSTIC NO. 12
WALTER SORELL, The Dancer's Image

The ideal dance music will make you hear the dance and see the sound. With the umbilical cord of mutual inspiration and mushy emotionalism cut, both enjoy their freedom. Instead of having a marriage of convenience, they go steady, each doing his own thing.

Three Compacts

Bozak quality sound for modest-sized rooms

It's a fact of physics that the larger the loudspeaker enclosure, the more realistic the bass reproduction.

Yet, room size and amplifier power limitations sometimes dictate the use of smaller-than-optimum loudspeakers. For these applications, Bozak, whose reputation for providing the 'truest possible bass spans more than a quarter century, has developed three compact speaker systems — each of which offers fidelity in bass response far beyond what might be expected from an enclosure of its size.

Rhapsody

The ideal loudspeaker for a medium-size room, the Rhapsody is a three-way system providing a full spectrum of true sound from natural bass through clear midtones to the highest shrill-free treble. Waterproof finish lets the Rhapsody double as an end table without fear of spotting. A three-position brightness control permits matching the speaker system to room acoustics. Sculptured foam grille enhances the true walnut surfaces.

Tempo III

Bozak's smallest three-way system has been acoustically designed to reproduce currently popular music with its emphasized bass. A ducted enclosure helps bring discotheque sound into the living room. Cabinet finish is waterproof, so there’s no fear of ordinary liquids marring the surface. Grille is of modern acoustical fabric. Available in free-standing or bookshelf models.

Sonora

Although the smallest Bozak speaker, the Sonora caused Popular Science magazine to say: 'you can get really good sound from an under-$100 speaker... While no speaker is perfect in reproducing lows, it was exactly this solid, rich sound that made the... Bozak speakers stand out.' To which we add, the crystal clarity of its highs are equally important to the success of this finest of compact bookshelf speakers.

If you buy any compact speaker, regardless of your room size or budget, without first listening to the Bozak compacts, you'll be doing your music system an injustice. We'll gladly send you the names of dealers in your area where you can hear them for yourself.

Bozak, Inc., Box 1166, Darien, Connecticut 06820
You’re looking at our attitude about cassette decks. The HK2000.

We make only one cassette deck. We certainly are capable of making more. Perhaps some day we will. But it’s unlikely — unless there are compelling mechanical or sonic reasons for doing so.

We have an attitude about high fidelity instruments: to give the finest expression to every function of music reproduction. And wherever we feel we have something to contribute, to do so without compromise. The HK2000 (with Dolby*, of course), represents our attitude about cassette decks.

Its predecessor (the HK1000), was evaluated by High Fidelity Magazine as, “the best so far.” When our engineering explorations suggested that improvements were feasible, we replaced it. With the HK2000.

We consider that the cassette deck has a definite and honorable utility as a means of conveniently capturing, retaining and reproducing material from phonograph records, tapes or radio broadcasts.

With one major caveat. It must perform on a level equivalent to the source. The HK2000’s specifications offer measurable evidence of its quality. For example: wow and flutter levels of 0.07%.

But performance specifications are only one influence on sound quality. Just as in all Harman Kardon amplifiers and receivers, the wide-band design characteristic of the HK2000 produces sound quality that transcends its impressive specifications.

It utilizes narrow gap, hard-faced, permalloy metal heads (the only heads used in professional studio tape machines) for extended frequency response and low distortion. Low frequency response is so linear that the HK2000 required the incorporation of a subsonic filter control that can be used to remove signals issued by warped discs.

These few factors, not individually decisive in themselves, indicate the attitude with which we conceived, designed and built the HK2000 — the only cassette deck we make.

There is, of course, a good deal more to say. Please write directly to us. We’ll respond with information in full detail: Harman Kardon, 55 Ames Court, Plainview, New York 11803.

*Dolby is a registered trademark of Dolby Laboratories, Inc.
Before you buy your next turntable, consider why you want a new one.

In letters and warranty cards from new Dual owners, we find that some had owned manual turntables and came to prefer the convenience and safety of automatic start and stop. Others also wanted to be able to play records in uninterrupted sequence. And a few gave reasons that modesty makes us hesitate to quote: "I wanted the best! or "Everyone recommends Dual!"

Whatever your reason may be for wanting a new turntable, consider your purchase carefully. Your record collection probably represents a bigger investment than all your other components combined. And your turntable is the only component that handles your records.

Although the overall appearance and feel of a turntable's controls can tell you something about its quality, appearances can be deceptive. For example, curved tonearms may appear interesting, but their unnecessary mass and increased resonance can only detract from the quality of music reproduction. All Dual tonearms follow a straight line from pivot to cartridge holder for maximum rigidity and lowest mass.

Some tonearms apply stylus pressure by unbalancing the tonearm. This results in tracking which is adversely affected by record-warp conditions and turntable level. In every Dual, stylus pressure is applied around the vertical pivot via a long coiled spring. This maintains tonearm balance throughout play, and tracking is unaffected even if the turntable is tilted substantially.

Other Dual features and refinements include: cueing damped in both directions to prevent bounce; pitch-control; anti-skating separately calibrated for all three stylus types. And internally: motor rotors and drive pulleys individually machined and tested with precision instruments to assure perfect concentricity. All the above contribute importantly to quality performance.

Now, while you should never compromise with quality, convenience is a matter of choice. Which is why Dual quality comes in a variety of models: semi-automatic, single-play; fully-automatic, single-play; single-play/multi-play. Seven models in all as described below.

Dual 1225. Fully automatic, single-play/multi-play. Viscous-damped cue-control, pitch-control. 10" platter. Less than $140. less base.

Dual 1226, with cast platter, rotating single-play spindle. Less than $170.

Dual 1228 with gimballed tonearm, synchronous motor, illuminated strobe, variable tracking angle. Less than $200.

Dual 1249. Fully automatic, single-play/multi-play. Bell drive. 12" dynamically balanced platter. Less than $280, less base. Fulfize belt-drive models include: Dual 510 semi-automatic. Less than $200; Dual 610, fully automatic. Less than $250. (Dual CS601, with base and cover. Less than $270.)


United Audio Products, 120 So. Columbus Ave., Mt. Vernon, N.Y. 10553

Exclusive U.S. Distribution Agency for Dual
Jahn vs. John

I find Mike Jahn's February review of Elton John's "Rock of the Westies" harsh and unfair. He says that the album "works musically, in spite of the lyrics," and I certainly agree that "John's melodies, singing, and ability to assemble one of the finest backup bands in rock" are all first-rate and that the album "works musically, in spite of the lyrics." But I strongly disagree that this is in spite of the lyrics. To even try to compare Bernie Taupin, one of the very best lyricists, and Paul Simon is simply stupid. Bernie is so much better than Paul! As to Elton's comment on the jacket ("Without Taupin, E. John would be serving pig swill to out-of-work clubmasters").), which Mike Jahn says is "not true, according to a close examination of the texts of the newest John/Taupin LP"); it is true. Without Bernie, Elton wouldn't be where and what he is now—the wonderful person he is, one of the best rock pianists and singers there are, and among the top rock performers. The lyrics in "Rock of the Westies" and all of Elton and Bernie's other songs are brilliant.

Mary Reilly
San Marcos, Calif.

AR's Full Warranty

In your April issue, you describe one manufacturer's guarantee as "setting a precedent for the high fidelity industry." This judgment was apparently based on that manufacturer's having "implemented the first full warranty... that we know of on a consumer audio product." If any guarantee can be fairly described as having set a precedent, it is the one that is offered by Acoustic Research. Since 1954, the AR guarantee has covered parts, labor, and shipping. It has also covered specifications, not just operation. Since 1961, it has run for five years on speakers. And since 1974, the five-year guarantee period has been extended to the AR turntable as well—the only such warranty on a mechanical device that we are aware of in any industry. Naturally the AR guarantee is transferable from one owner to the next. And it applies regardless of where the product was bought or where it is used, anywhere in the world.

The fact is that the AR guarantee was not rewritten to conform to the requirements of the Magnuson-Moss Act. This wasn't necessary, since it had exceeded those requirements for twenty-two years. We challenge anyone to find a stronger precedent-setting policy than that.

Susan Farlow
Director of Public Relations
Acoustic Research, Inc.
Norwood, Mass.

We are happy to add that AR's warranty in these sometimes confusing post-Magnuson-Moss times (see "News and Views," May), clearly carries the word "full."

D.H.: No "Objectivity"?

Dale Harris has done it again. He remains the only one of your critics who is consistently unable to distinguish objectivity from subjectivity—his subjectivity, that is. A case in point is his recent review of the Leontyne Price/Placido Domingo album of operatic duets (February). He finds all kinds of imaginary things wrong with Price's singing—and not only in this album, but any other regarding she makes.

Whatever happened to High Fidelity's well-informed and objective critics such as George Movshon? Why doesn't Alfred Frankenstein review more? His reviews are well written and very informative. Will we have to ask for the return of Conrad L. Osborne? Instead of reviews by men of their caliber we get one-sided and narrow-minded reviews from the likes of Dale Harris and David Hamilton. Perhaps Mr. Harris should leave reviewing of recordings to those critics who are open-minded and per- spicious.

Charles H. Penn
Washington, D.C.

Whose subjectivity would Mr. Harris have, we wonder, if not his own? Yes, there is indeed an objective element in criticism; Mr. Harris is performing that function when he notes Ms. Price's "lack of weight at the bottom of the stuff" (surely, by now, that is no revelation) or the sharpness of some of her high notes (with a specific instance cited)—both objectively verifiable assertions. When criticism proceeds from description to evaluation, it is by definition subjective, and Mr. Harris carefully distinguishes the subjective when he writes of the duet disc that "most of all, I find myself [sic] disappointed by Price's lack of spontaneity, the absence of the dramatic conviction so apparent in Domingo's work. Price is conscientious and often sounds ravishingly beautiful, but for me [sic] she lacks the gift of imaginative identification with her roles."

Axenstein Rediscovered

Shortly after the war, I found myself in Switzerland with plenty of time to kill and happily killed a couple of weeks of it making a slow circuit of Lake Lucerne, then Utterly bereft of tourists. One of my ports of call was the lakeside resort of Brunnen, and I well remember making an excursion to a nearby town perched high above the lake. It was a somnolent place, with a large hotel dating from la belle époque, a bit seedy, perhaps, but with that splendid spaciousness and solidity of nineteenth-century Swiss grand hotels. I thought it an absolutely ideal spot for escape from the hurly-burly—and so, evidently, did Artur Schnabel. The name of the town was Axenstein. Imagine my astonishment, then, to learn from that fiend for facts, Nicolas Slonimsky, that "there is no such town as Axenstein in Switzerland (or elsewhere)" and that consequently Schnabel could not have died there ("1951: A Classical Scrapbook," April). Mr. Slonimsky speaks with such authority that I began to wonder if I had fantasized the place. But no, Axenstein is there on the map, just above Brunnen, as I had remembered it.

Surely, Nicolas Slonimsky—and other potential revisionists—should think again before they ax Axenstein from the Schnabel necrology.

Roland Gelatt
New York, N.Y.

Mr. Gelatt, former editor-in-chief of this magazine, is correct: There is an Axenstein in Canton Schwyz in Switzerland. Mr. Slonimsky concedes his error, but sticks by his guns on the place of Schnabel's death: the Hotel Axenstein in the nearby town of Morschach.

Elusive Recordings

As a longtime lover of Handel's organ concertos, I read Robert P. Morgan's March review of the Tachezi/Harnoncourt Telefunken set with great avidity—and will undoubtedly purchase it on his enthusiastic
All the superlatives applied to DG's pressings fit here. The lively and almost extemporaneous approach to the obbligato passages makes it well worth the high cost. It seems strange to me that DG would not have exported this set Stateside; there would undoubtedly be a large market for it, especially as a winner of a Grand Prix du Disque and the Edison Prize.

E. T. Merrick
Washington, D.C.

Just to set the discography straight: 1) There is only one Biggs/Boult recording of the Handel organ concertos; that six-disc issue was an earlier reissue of the four-disc original. 2) The Müller/Wenzinger Archiv set was issued domestically, as SKL 917 in 1967, with the switch to the new DG numbering system, the set survived in Schwann as 2723 005 until 1971. Incidentally, it is possible for a DG set to exist simultaneously in one country with a 2714 prefix (i.e., a full-priced three-disc Archiv set) and in another with a 2723 prefix (i.e., specially priced).

I am looking for an explanation of a very puzzling set of recordings. The matter involves my first recording of the venerable warhorse 1812 Overture by the Minneapolis Symphony Orchestra, Antal Dorati conducting, on Mercury MG 50054 and its reissue on the Mercury Golden Imports label, SRI 75001.

Each record has spoken commentary by Deems Taylor on how it was done, but the "how" of each is different. The first recording uses the bells of Yale University, and the second uses those of Riverside Church, New York City. The recording of the cannon for each disc is different also.

Were there two different recordings originally, or did the powers that be splice in some other recordings of cannons and bells for the reissue?

I am not complaining, mind you—just curious. I am, in fact, overjoyed to see these discs come back. Mercury is a great recording company in my book.

Stephen William Ross
Glendale, Calif.

Mercury Records tells us that Mr. Ross's first guess is correct: Two separate recordings, the first (MG 50054) in mono and the second (SRI 75001) in stereo, were made in 1954 and 1958, respectively, using the same ensemble but different bells and cannon.

Coping with Distortion

In the February 1976 issue ["News and Views"] I see a reference to Tim (transient intermodulation distortion), phase distortion, and difference-frequency distortion. In the same issue there is a test report on the Burson M-70 Uni-Phase loudspeaker system. Evidently the concern over phase shift and phase distortion is finally causing some action.

In 1961 I decided to assemble the best system I could afford. I first looked into the physiology of human hearing, in particular the ability to sense direction. References divided hearing into three regions: bass, the range of frequencies below about 300 Hz, in which we are unable to determine the direction of sound; midrange, about 300 to 1,500 Hz, where we determine direction by the phase difference as the sound reaches our ears; and treble, frequencies above about 1,500 Hz, where direction is determined by a difference in sound intensity at the ears as caused by the shape of the head.

This information would seem to suggest a three-way speaker system with crossover frequencies at 300 and 1,500 Hz. It also suggests that in the midrange, which carries a good deal of sound information, the phase relationship of sound reaching the ears is very important to the stereo effect.

Most recording companies not only use many microphones placed throughout a recording setup, but tout it as a great technique for maximum channel separation—the Ping-Pong effect. This tends to place the listener between two groups of performers.
The ultimate distortion of the T-100's FM section was unequivocally the lowest we have ever measured. To this can be added a really first-rate AM tuner section, the likes of which we have never before encountered in a product of this type.**

"There is no doubt that its stereo channel separation and distortion characteristics surpass anything in our previous experience. Its AM frequency response was not only, by far, the flattest and widest we have ever measured on an AM tuner, it is sufficiently free of distortion and noise to make it a truly useful program source even for high fidelity listening."**

Spending more won't buy a better tuner.

The uncompromising quality of Accuphase makes the T-100 AM/FM Stereo Tuner one of the finest available. At any price. No qualifications.

From its unprecedented excellence in performance to its unusually effective multipath meter, the T-100 is truly superb.

Prove it yourself. We've assembled a free 36-page booklet of independent laboratory reports attesting to the superior performance of Accuphase. It's very convincing. But the best way to be convinced is to audition the T-100 yourself. Then you'll understand why the critical acclaim has been as impressive as the product itself.

write: TEAC Corporation of America, 7733 Telegraph Road, Montebello, CA 90640
The new Sansui LM Loudspeakers that set the AES Convention on its ears.

At the Convention of the Audio Engineering Society in Los Angeles last May, Sansui demonstrated a new concept in loudspeaker design.

The reception from these experts — chief engineers of radio and TV stations, record producers, recording engineers and sales executives of audio companies — was even more sensational than we ourselves expected.

And these are the reasons:

Unlike conventional speakers, the LM design incorporates a multi-radiational tweeter device. High frequencies instead of being lost through encapsulation, are diverted through three special exponential horns and recovered into sound energy that adds a breathtaking sense of ambience, and realism. The LM speakers also display extremely stable and well-defined stereo images. At the same time, both the transient response and efficiency of the system are greatly increased. An extra large woofer assembly gives exceptionally strong bass response ordinarily available only in much larger and more expensive speakers.

Hear the LM 110s at $250.00/pr*, the LM 220s at $340.00/pr*, and the LM 330s at $400.00/pr* at your nearest Sansui franchised dealer. You never heard music so alive before.

*The value shown is for informational purposes only. The actual resale price will be set by the individual Sansui dealer at his option. Cabinets finished in simulated walnut grain.
clustered about the two speakers. The recording engineer tries to compensate for this by cross-mixing, but in the midrange the phase relationships required are lost. Mercury Records’ use of only two microphones, which places the listener in the audience at the microphone location, appears more desirable.

Assuming a recording technique that captures the proper phase relationships, another problem is to maintain the effect through reproduction until the sound reaches the listener. In building my system fifteen years ago, I incorporated a midrange speaker in a housing that—through use of shielding and a hard, curved sound-reflecting surface—provides an equal sound-path length to any listener seated anywhere within a reasonable area. The system never ceases to amaze me when I play a properly recorded disc.

Most of the phase-distortion problem occurs during recording. I have only two ears. Get the recording companies to use only two (four for quadriphonic) microphones, one for each recording track, and then the speaker manufacturer can go to a single midrange speaker per channel, covering the natural range between 300 and 1,500 Hz and achieve realism!

O. K. Peterson
Wilmington, N. C.

Polish Recordings

I read the March article “Polish Classical Recordings Stage a Boomlet” with a great deal of interest. However, I believe your readers, especially those on the East Coast, might be interested in knowing that there is another excellent source for Polish recordings, here in New York City. In fact, Qualiton Records Ltd. (65-37 Austin St., Rego Park, N.Y. 11374) now distributes the entire Muza, Pronti, and Veriton classical catalogues, as well as Qualiton of Hungary, Supraphon and Panton of Czechoslovakia, and the Pearl Records catalogue from England.

Otto Quittner, the director of Qualiton, has informed me that he would be happy to supply catalogues and other information to interested individuals and dealers. I have been dealing with Mr. Quittner for some years now, and he has always been obliging and cooperative in filling all my record needs in connection with the above-mentioned labels.

Romeo J. Mannarino
Staten Island, N.Y.

Tracking Down the Lone Ranger

For almost thirty years I have tried without success to track down the source and titles of all the musical background on the old Lone Ranger radio and television programs. I wrote the late George W. Trendle, creator and producer of the show, several times, but right up until his death a few years ago he refused to divulge any information about the music. He claimed it was one of the secrets of the program’s success (as indeed it was), and then, after he had sold the rights to The Lone Ranger to the Weather Corporation, he revealed nothing for ethical reasons.

I have seen a number of old Republic Pic-}

It all started in 1883 in St. Croix, Switzerland where Herman Thorens began production of what was to become the world’s renowned Thorens Music Boxes.

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Pictured above: lower left—TD-125 AB MARK II. (Also available without tone arm TD-125 B MARK II) lower right—TD-145 C+top left—TD-150 C+top right—TD-165 C.
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The Advantages of Disorder
by John Culshaw

I have to admit something that all my friends would confirm: When it comes to records I am not the tidiest of people. Books, yes: They are under very firm control, so it never takes me more than a few seconds to find a book or a score, or to discover that I have lent it to someone whose name I have forgotten, despite the fact that my books inhabit three rooms on three floors whereas my records are supposed to be confined to one.

"Supposed" is the operative word, because I am convinced that records—or at least my records—are incurably nomadic. When they are not under constant scrutiny they wander about, probably at some ghastly hour like 4:47 a.m., and engage in a silent ritual of reshuffling, so that Joan Sutherland singing Noel Coward appears not under C for Coward or S for Sutherland, but in the middle of an unboxed set of Ivan Susanin. I am also convinced that this subversive activity happens at particular times of the year, that it is rather like the migratory habits of birds. It is at its most tiresome in the winter, when one is likely to be using records even more than usual, and in the early fall, when all the big new releases vie for accommodation on the shelves. Will Tebaldi and Karajan in Aida move over to make room for Caballe and Muti? Like hell they will.

By dint of much research and observation I have discovered that records have a hibernation period, roughly between May and August, so this is the time to put your collection in order with at least a fair chance that it will stay that way for a month or two. There are a few sets that stay in a state of permanent hibernation simply because they are too big or too grand to indulge in the frivolity of wandering about: for example, The Ring and the complete symphonies of Haydn. At the other end of the scale, the worst wanderers by far are the 45s, of which mercifully I have few and which I never attempt to put in order.

Yet there are advantages in this disorder. The very act of running down strays and putting them back where they belong (in alphabetical order according to composer or, in recital format, according to artist) can unearth some splendid forgotten treasures. Thus in my most recent attempt to impose discipline on the wanderers I came across what must have been the first LP set of The Mikado, which—even though it is of minor interest except for a brilliantly laconic performance by Martyn Green as Ko-Ko—instantly transported me back to Decca/London's studio No. 1 in West Hampstead almost a quarter of a century ago. It turned up next to, of all things, a single pirated record of Leonard Bernstein conducting excerpts from Tristan und Isolde with Eileen Farrell and Jess Thomas (which, despite the awful quality of the sound and the atrocious cuts, made me long
TDK SA. WE DEFY ANYONE TO MATCH OUR VITAL STATISTICS.

| Manufacturer | Brand | MAGAZINE A | | MAGAZINE B |
|--------------|-------|------------|------------|
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| TDK          | 66.5 dB | +4.2 dB | 66.0 | 0.9 |
| AMPEX        | 20:20+ | 56.4 dB | +1.9 dB | - |
| FUJI         | FX     | 60.0 dB | +2.3 dB | - |
| MAXELL       | UD     | -     | -     | - |
| MAXELL       | UDXL   | 62.5 dB | +2.7 dB | - |
| NAKAMICHI    | EX     | 60.0 dB | +2.3 dB | 55.0 | 1.1 |
| SCOTCH       | CHROME | -     | -     | 64.0 | 1.3 |
| SCOTCH       | CLASSIC | 62.5 dB | +2.0 dB | - |
| SONY         | FERRICHROME | 64.0 dB | +2.1 dB | 64.0 | 1.8 |

Decks used for tests: Magazine A, Pioneer CT-F9191 (cross-checked on DUAL 901, TEAC 450); Magazine B, NAKAMICHI 1000.

Two leading hi-fi magazines working independently tested a wide variety of cassettes. In both tests, TDK SA clearly outperformed the other premium priced cassettes.

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June 1976
Andy Russell:

"I Don't Like to Stay Up Late"

by Gene Lees

During World War II, several new singers of popular music emerged and became the idols of adolescents. They soon supplanted in popularity the bands in which they had been nurtured and trained. The bands all but faded away.

Dick Haymes was one of them, Perry Como another. The biggest, of course, was Frank Sinatra, and the hysterical enthusiasm of bobby-soxers made him a legend.

Just as big, at one point, was Andy Russell, a young man with a friendly mien, a dazzling smile, and an exceptional clear voice whose career followed closely behind that of Sinatra's. There was, for example, a similar shrill opening at the Paramount in New York. And in 1946, he took over the Lucky Strike Hit Parade radio show from Sinatra.

Russell had a string of hits about the time of the war's end—"Besame Mucho," "Amor," "Mam'selle," "Without You," "Time Was," and "Magic Is the Moonlight." He was a very big star.

And then, suddenly, a few years later, he disappeared. By the late 1950s, Sinatra's career was in trouble and his fans had moved on. He fought his way back to fame, of course, and has never lost it. (Como continued on his casual way.) Haymes's career also faded. Russell just calmly took a walk. Right out of the country.

Word filtered back that he was in Mexico, that he had become as big a star in the Spanish-speaking world as he ever was here. That seemed strange, unless you knew he was born Andres Rabango in the barrio of East Los Angeles. His parents were born in Mexico.

"I didn't have to learn Spanish when I went to Mexico," Andy said recently, "but I had to improve it. The tragedy with Mexican-Americans is that they don't get a chance to speak English properly or Spanish properly."

Despite his parentage, Andy experienced a measure of cultural shock when he made the move. "The American world does not know what is going on in the Latin world. There are so many big stars, not only in Mexico, but in Argentina, Chile, Colombia."

"I'll never forget when I arrived in Mexico, in 1954. I had finished at the Coconut Grove, and my life did a complete turnaround from English to Spanish. I arrived in Mexico City, and they asked, 'Andy, how do you feel about working with Augustine Lara, Maria Victoria, and Pedro Vargas at the Teatro Lyricho?' And I said, 'Who are they?'"

That was like asking an American who Bing Crosby and Frank Sinatra are.

Andy moved back to California after fourteen years in Mexico. He lives in Encino with his wife, Ginny (who was an interviewer on a Texas TV station when he met her), their 13-year-old son, Craig, and her son by a previous marriage.

I don't know how old he is—probably a little younger than Sinatra. The catch is that he looks about forty-two or forty-three. It is uncanny.

"Well, Ginny is an expert on nutrition," he explained. "And we are very strong on vitamins. And then there's exercise, too."

"You know," Russell continued, "I was the big square of the music business. I've always been a nonsmoker and a nondrinker. When I was with the bands, the musicians used to say, 'Andy, you're never going to make it. You've got to go out more with the guys.' But I never did. I saw one of them recently, and he said, 'Andy, you were right. I've had three heart attacks, and I've given up everything.'"

That may make Andy Russell sound stuffy, but it was said with laughter. He's a health nut, that's all. And he's the best argument for the healthy life I've ever seen.

I remember with amusement running into Andy during an engagement at the Chateau Madrid in New York about seven years ago. He had a hot record on Capitol, had just played Las Vegas, and appeared to be on the verge of a big U.S. comeback. I asked him if he intended to pursue it. He said he didn't think he would. "Well," he replied to my amazed reaction, "you know, I don't like to stay up late."

Today he does concerts in Mexico City, Buenos Aires, Madrid, and in Southern California. Recently he played to a crowd of 10,000 at the Ventura County Fair and went from there to Disneyland, then on to the Hollywood Palladium. He's still a star to a lot of Americans. But they happen to speak Spanish, and perhaps few of them know that he first sang in English. Indeed, the younger among them think he is a new performer.

Andy—who, incidentally, began not as a singer, but as a drummer with Gus Arnheim, Alvino Ray, Johnny Richards, and Stan Kenton—still records in Spanish, of course. The U.S. labels apparently aren't interested. Which bothers Andy not in the least.

His voice is in remarkable condition. It is as clear and strong as ever—and a nondrinker. When I was with him recently, and he said, 'Andy, you're never going to make it. The voice is in remarkable condition. It is as clear and strong as ever—better by far, in fact, than it was in the days of his early fame."

"People have asked me," he said, "how long I'll stay in this thing. I'm such a proud guy. I haven't lowered the keys of my songs. My register has never lost it."

"Until this voice, this instrument, starts to fail on me."

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(ADS 200 and 12" record shown in proper proportion.)
In headphone listening, I find hiss and high-frequency noise much more noticeable and annoying than in listening through speakers. This is most noticeable on FM but also occurs in listening to records. I have noticed this on more than one pair of phones and set of speakers (Sennheiser HD-414 and Koss Pro-4AA phones, AR-6 and Advent speakers). Can you explain?—David Hoekema, Princeton, N.J.

We too have observed this effect. The principal cause, as far as we can determine, is that when the high frequency response of a system is set correctly for loudspeakers it is too “hot” for headphones. The loudspeakers have to work into an environment that is far more absorptive at high frequencies than is the inside of one’s ears. A judicious treble cut should solve matters nicely.

I am planning to replace my 1962 vintage monaural hi-fi with modern stereo. I like the convenience and economy of integrated units (changer, tuner, amplifier, and tape) but am concerned with quality and output power. My present system consists of a Rek-O-Kut Ron-dine Jr. L-34 turntable with ESL arm and Shure M-3D pickup, Dynakit preamp and Mk. IV 40-watt amplifier, and AR-2 speaker with the “AH” electrostatic tweeter.

I believe the AR-2ax would match my speaker for the left channel, and a Garrard 770 changer with Shure M-91ED cartridge would fit my needs. My question comes in the electronics of the system. The Dynaco PAT-4 preamp, Stereo 120 amp, and FM-5 tuner probably would be fine. Are separate preamp and amp as desirable in solid-state equipment as in the old tube-type? Would the Dynaco SCA-80 do just as well as the Stereo 120, practically speaking, at a saving of $85? Is there a fully integrated unit with tuner, changer, tape cassette, and amplifier that can power the AR speakers? If not, could a lower powered unit be coupled with an additional power amplifier?—Robin K. Ransone, Charlottesville, Va.

Although solid-state technology—by alleviating the problems of heat and packing density—has made it easier to assemble the electronics of a playback system on a single chassis than it was with tubes, separates still have advantages in flexibility and, usually, in the performance standards to which they are designed. While the per-channel difference between the SCA-80 at 16 dBW (40 watts) and the Stereo 120 at 17 3/4 dBW (60 watts) is negligible at 1 kHz, using separates allows you to start with a cheaper alternative and upgrade if and as you want—for more power, more preamp features, or whatever.

We would recommend, however, that you use matching speakers for both channels. As we see it, you would be better off selling your AR-2 and add-on tweeter and buying two AR-2ax speakers. In any event, we wouldn’t recommend trying to drive the speakers with coupled amps. Nor would we expect an all-in-one product to match either the performance or the features of the system you propose to assemble.

I am considering the purchase of a Sony TA-5550 integrated amplifier with FET output, rated at 50 watts per channel. My dealer claims that Sony has rated the unit very conservatively and that he has measured 80 watts per channel from some samples. Is this credible, or is the dealer trying to sell a fast one?—Stephen J. Bell, Palo Alto, Calif.

The dealer is probably correct, but Sony is not being as conservative as all that. The preconditioning required by the FTC before the power of an amp is rated heats up the output devices a good deal more than does music reproduction, even at high levels. Unlike bipolar transistors, F-FETs deliver less current for a given input signal as they approach their maximum operating temperature. This makes them not so dependent on protection circuitry, but it forces the designer to leave generous margins to be sure the product meets its specs. Allow a bit more to take care of manufacturing tolerances (your dealer was lucky to get a unit with that much reserve), and the figure measured does not seem at all outlandish. And of course the practical difference between 50 watts (17 dBW) and 80 watts (19 dBW) is just 2 dB in ultimate sound level.

The cones of my speakers (Utah 15-inch Musical Instrument drivers in bass-reflex enclosures) move in and out visibly, slightly at low volume but through a considerable distance when the control is set halfway. Turning the bass control to FLAT reduces the movement but does not eliminate it. The problem has persisted through several changes of equipment, including electronics from Kenwood, Sherwood, and Electro-Voice, turntables from Garrard, Benjamin, and BIC, and cartridges from Empire and Shure. I have even switched to sealed speaker enclosures without any improvement. What can possibly be wrong?—Tom McKnight, New Castle, Pa.

Your problem is likely to be either low-frequency oscillation in the electronics or turntable (or recorded) rumble. Since it seems unlikely that three different amplifiers would oscillate in this way and you appear to be a bass freak (we assume you are turning the bass control to FLAT from BOOST, not CUT), rumble—or even record warps—may be the culprit. The high gain that your system has at low frequencies probably will require the use of a subsonic filter. Electronics with filters that effectively reduce rumble without cutting out bass tend to be rather expensive, however. So, depending on your budget, you may want to use whatever low filter you have available or even back off somewhat on the bass control.

After seeing an ad for Sound Guard, a new record preservative, in your March 1976 issue, I have a few questions about its use. Will the Discwasher record cleaner (and D-II fluid) remove this preservative? Would you recommend the use of Discwasher and Sound Guard together? Finally, will Sound Guard last indefinitely after one application, or do records need repeated applications?—Christopher M. Long, Framingham, Mass.

Since the manufacturer says that Sound Guard is removable only by detergent (and then with some difficulty) and the Discwasher fluid contains no detergent, the latter probably would have little effect on the Sound Guard. It does not last indefinitely—only for about 40 to 50 plays (again by the manufacturer’s own reckoning). The two products seem, on the face of things, to be compatible.

I’ve read in your magazine several complaints about RCA’s “prewarped” Dynaflex discs, but I’ve never seen a word about the atrocious quality to which Deutsche Grammo-phon—apparently the darling of the industry as far as commentators are concerned—has descended. The discs are so noisy that I won’t buy them any more. Why the conspiracy of silence?—Mark J. de Marco, Evanston, Ill.

Like other readers we’ve heard from, you seem to feel betrayed by a company that once had a reputation for offering the quietest discs of any major company in the field. We too have noted more clicks and pops in recent DG pressings, but DG claims that it has no problem and that the only reason for the greater number of defective copies these days is the greater number of discs it is producing. The percentage of defects, it says, remains the same as always. Translated from the official, this means that you shouldn’t expect things to change in the near future.
LUX offers three good reasons for the growing movement toward separate amplifiers and tuners.

Possibly the highest acclaim a receiver can be awarded is to have one or more of its elements compared favorably with its equivalent in a separate tuner, preamplifier, or power amplifier. Nevertheless, for most music lovers, a good receiver more than fulfills their requirements. But for a growing number of dedicated audiophiles, who are seeking the ultimate in music reproduction, nothing but separates will do.

They know what kind of power it takes to reproduce music's original wide dynamic range and high levels without peak clipping or distortion. (A barely detectable 3-dB increase in output level requires double the amplifier power.) A very powerful amplifier must have massive power-supply components to be able to deliver the large amounts of current demanded by high-level output circuits. The size and weight of the power transformers alone means receivers must leave off well below where really high power begins.

For those who want to hear their music at realistic sound levels, LUX audiophile/engineers have designed products such as the M-4000 power amplifier. This unit is capable of 180 watts per channel, minimum continuous average power, and even with both channels driven simultaneously to full output into 8-ohm loads, each channel has no more than 0.05% total harmonic distortion at any frequency from 20 to 20,000 Hz.

Sophisticated protection circuits react to the electronically-subtle differences between normal high-level audio signals and abnormal voltage/current conditions. Hence, the M-4000 won't be fooled into producing unpredictable and audible distortions when operating with certain reactive loudspeaker loads. Each of the stages—Class-B output and Class-A drive—has independent power-supply sections to minimize intermodulation effects. And fully independent power-supplies for each channel maintain full wattage potential under large-signal drive conditions.

Similar considerations went into the design of the C-1000 preamplifier. Every parameter that contributes to sonic differences, subtle as well as obvious, was examined anew. Among them: phase linearity, rise time and small-signal overload. One result: the magnetic-phono input circuits are virtually overload-proof—accepting almost half a volt at 1000 Hz! Another: the phono-preamplifier circuits have astonishingly low distortion of 0.006%, and the rest of the preamplifier circuits add only 0.001% more.

The Luxman T-310 AM/FM stereo tuner has everything from calibrated Dolby circuits for decoding Dolbyized FM broadcast and tapes to variable AM muting. Among its typical specifications: an IHF-sensitivity of 1.7 microvolts and an exceptional 2.2 microvolts for 50 dB of quieting. And special five-pole phase-compensating filters in the IF section contribute to a 1.5-dB capture ratio and exceptionally low distortion levels (0.1% mono, 0.12% in stereo).

Of course, it takes some technical knowledge to fully appreciate the design approaches described above. But only your ears are required to hear the end result. In either case, you may soon be among those who own one or more of the thirteen LUX power amplifiers, preamplifiers, integrated amplifiers or tuners. You'll find them at a select number of dealers who are dedicated audiophiles themselves.

Dolby is a trademark of Dolby Laboratories, Inc.
Is There a Bucket Brigade in Your Future?

No, it's not a federally mandated safety device that will put out fires in an overheated power amp. It is, rather, a clever little mechanism (an integrated circuit, in fact) developed by Matsushita Electric of Japan that is capable of accepting a signal at its input terminals and delivering substantially the same signal at its output a little later in time. In short, it is a time-delay unit, and its formal name is charge-coupled device. But everybody in the audio industry is talking about the "bucket brigade," and if you want to appear au courant you should know what it is.

An electric current (such as an audio signal) is really a flow of charge. And any waveform can be replicated from a series of discrete samples, provided that the highest frequency component of the wave is sampled at least twice in each cycle. In the accompanying diagram, let's assume that the "clock" (a high-speed master oscillator) turns the odd switches (S_1, S_3, ...) on and the even switches (S_2, S_4, ...) off with one pulse and reverses things with the next pulse. Now if a signal is present at the "in" terminals when S_n goes on, the capacitor C_n charges up to some value, which will depend on the momentary voltage of the incoming signal. When S_n goes off and S_{n+1} goes on, the charge in C_n is "dumped" into C_{n+1}. If the signal remains present at the input and the odd- and even-numbered switches keep alternating, a series of "packets" of charge representing the input signal travels down the line (that's where the term "bucket brigade" comes from) and eventually arrives at the output. If the clock frequency is at least double the highest frequency in the input signal (a clock faster than that is needed in practice), the output theoretically will be the same as the input, only a little bit later. The "switches" used actually are transistors, and they do not switch perfectly; similarly the capacitors leak somewhat. But despite some consequent noise and distortion, the device works.

What is this relatively simple and inexpensive integrated circuit being used for? Well, we know of at least one reverberation unit based on bucket brigades, and Technics by Panasonic (a Matsushita Company) has developed an ambience circuit for headphone listening based on the same device. More applications are in the works.

High-End Pique

We recently had a discouraging conversation with a gentleman from one of the major tape-deck manufacturers. Citing the psychoacoustic "fact" that "brighter sounds better," he opined that some of his competitors had been able to win customers away from his product on the sales floor because their cassette decks exhibit a slight peak in response toward the high end and therefore sound "higher fi" in A/B comparisons than his flatter-responding decks. Apparent conclusion: In order to win customers, you must play games with their ears.

The cassette medium has progressed enormously in the last few years. In particular, its high-frequency limits have been pushed upward from those comparable to cheap table radios to those comparable to open-reel tapes. The steps by which this has been achieved have, mostly, been lilliputian, but they add up to a brobdingnagian stride—a stride that lengthens all the time.

Perhaps equipment buyers, mindful of past (and worst) cassette decks, are hypercritical of the high end. But the cassette medium got where it is today by intense concentration on precision—mechanical, magnetic, and electronic. And we think it will continue to progress only if it cherishes and builds on the precision already achieved. Our motto is: Flat is beautiful.
If you're thinking about stereo equipment, probably the single most important influence on your buying decisions will be the recommendations of friends whose judgement you respect.

Please talk to someone who owns the Bose 901® loudspeaker system. He or she is probably serious about music and can give you a serious opinion, along with a somewhat technical discussion of the unique qualities of the 901. (Bose owners tend to be a little passionate about their speakers.) And, loyalty aside, it's probably worth a few minutes of your time to listen to the story, because the Bose 901 is so drastically different from conventional speakers.

First of all, the 901 is far smaller than its performance, reputation, or price would lead you to believe. Then, the speakers are pentagon-shaped, and are set up a foot or two from the wall of the listening room, pointing at the wall, not at the listener. This is a critical difference between the 901 and conventional speakers. The 901 is a Direct/Reflecting® loudspeaker. It reflects most sound off back and side walls and then into the center of a room, surrounding the listener with the proper proportion of reflected and direct sound, all frequencies in balance, almost anywhere in the room. The result is an extraordinarily open, spacious sound that very effectively reproduces the feeling of a live, concert-hall performance. This is in sharp contrast to conventional direct radiating speakers, which tend to beam sound (especially high frequencies), limiting optimum listening to a relatively small area in front of the speakers, and producing the somewhat harsh sound often associated with high fidelity.

There are more dramatic differences inside the 901: it has no conventional woofers or tweeters, just nine identical, 4½-inch, full-range drivers.

The nine drivers are acoustically coupled inside that very compact 901 cabinet. Coupling tends to cancel out, across all nine drivers, the small imperfections found in any sound reproduction device (ours included). What you will hear is an incredibly smooth, life-like sound, practically free of distortion.

Besides two speakers, the 901 system includes a third part: the Active Equalizer. The 901 uses the Active Equalizer to automatically boost power at the frequencies where it's needed. The result is consistent sound output up and down the frequency range, with full, steady high notes and solid, powerful low notes.

Now that you've heard the story behind the 901, we invite you to go to a Bose dealer and listen. Compare the 901 to any other speaker, regardless of size or price. Then you'll know why the Bose 901 has become something more than a loudspeaker system for thousands of music lovers all over the world.

For a full-color brochure on the 901 loudspeaker system, write: Bose, Dept. HF6, The Mountain, Framingham, Mass. 01701.

Patents issued and pending.
Automated record playing has a new virtuoso performer. Audio Dynamics Corporation, a division of BSR (U.S.A.) Ltd., has come up with a turntable-cartridge-arm combination that keeps track of the bands on a disc and plays just the ones you want, skipping all the rest and shutting itself off at the end of the disc. If your musical taste displays meteorological variability, Accutrac 4000, which is what this interesting gadget is called, comes complete with a wireless remote-control unit that allows you to exercise your caprice with the flick of a finger.

Unlike the ill-fated quasi-jukebox system introduced by Seeberg some years ago, Accutrac involves no sacrifices in basic performance—the turntable, arm, and cartridge are designed to be competitive with state-of-the-art gear. An infrared emitting diode in the cartridge beams onto the record. Its radiation is scattered by recorded areas and reflected back to a detector (also in the cartridge) as the arm passes over the spiraling between cuts. The detector output allows the system to count bands and play only those you have programmed by means of the array of buttons on the turntable (or on the remote controller).

The system, which can handle discs with up to thirteen cuts, can store as many as twenty-four commands. Selections can be played in any order, repeated, cued, rejected—all without laying a finger on the tone arm. (You can do that, too, if you really want to.) For about $500—or less, according to ADC, in future models—you can turn the tables on record producers who insist on putting dross in among their goldies. Sounds like fun.

New equalizer available from Soundcraftsmen

A stereo equalizer suitable for use in both professional installations and semiprofessional home high fidelity systems is being marketed by Soundcraftsmen. Designated SG-2205-600, the equalizer delivers about 12 dB of boost or cut in each of ten octaves, independently controlled for each channel. It can be used in recording, playback, and environmental frequency tailoring. Front-panel pushbuttons provide choice of pre- or post-equalization (source or monitor) during recording. Front-panel LEDs indicate input overload and input-vs.-output gain balancing. Soundcraftsmen claims a frequency response, ±0.5 dB, from 20 to 20,480 Hz and a signal-to-noise ratio of better than 90 dB. The SG-2205-600 costs $399.50.

Kenwood speaker line makes its debut

Kenwood has announced the addition of the LS series of speakers to its product line, including the LS-406, LS-405, and LS-403. A new material made from pulp from the Daphne, a shrub found in Japan, is used for the speakers' diaphragms, and Kenwood claims that it contributes to flat response in the midrange and high frequencies. Possessing high elasticity and great strength, though light in weight, the Daphne fiber is said to have a favorable damping characteristic. Also used is a lumber-core baffle board, which Kenwood says gives the speakers a rich tonal quality. The LS-406s cost $149.95 each; LS-405s, $119.95 each; and LS-403s, $169.95 per pair.
The new Sherwood S9910. Everything you hear is true.

It has all the power you need [at the lowest achievable level of distortion]: 100 watts per channel [minimum RMS at 8 ohms from 20-20,000 Hz] with no more than 0.1% Total Harmonic Distortion. The componentry used to achieve this rating features exceptional stability characteristics: a paralleled OCL direct-coupled output configuration...twin 15,000µf filter capacitors...and a zener regulated secondary power supply.

It has all the controls you need for fully flexible centralized operation: 5-position Mode switch, 6-position Selector switch, 8-position Speaker switch. Two Tape Monitor circuits [with a two-way, inter-deck dubbing capability]. Front-panel Mic Input and Mixing, with a frequency response suitable for use with a professional caliber microphone. And a Main-In/Pre-Out switch, which allows independent usage of the main amplifier section. The S9910 can accommodate three speaker groupings, two turntables, three tape decks and any auxiliary equipment.

It has State-of-the-Art tuner specs: an IHF FM Sensitivity rating of 9.84 dBf [17µV]. A four-ganged tuning capacitor and dual-gate MOSFETs provide superior image rejection and spurious response rejection with minimal cross modulation. The newly developed digital detector system utilizes no tuned circuits and never requires alignment. The Ceramic FM IF Filters are matched for optimal phase linearity. The Phase Lock Loop integrated circuitry in the multiplex decoder improves separation and SCA rejection, while limiting distortion.

It has all the features you need for the purest sound: Loudness Compensation, Hi-Filter and Subsonic Filter, precision detented Bass, Midrange and Treble controls [each with exceptional variance characteristics]; and a master Tone Defeat switch, for instant reference to flat response. Switchable FM Stereo Only and FM Muting. Dual Tuning Meters. And a Positune™ Indicator LED, which visually signals perfect tuning.

It has switchable FM Deemphasis [25sec. and 75sec.], to accommodate an outboard noise reduction unit. A built-in Ambience Retrieval System [A.R.S.] which recovers and enhances material found in conventional AM stereo recordings and derives an effective 4-channel sound from any stereo source.

It has plug-in driver boards [to facilitate servicing], which feature an I.C. differential amplifier input for stable operation.

It has relay speaker protection circuitry which automatically disengages your speakers if a potentially damaging situation arises.

It has everything we've mentioned. It has some features we haven't mentioned.

Best of all, it has a price of less than $700.*

Sherwood Electronic Laboratories, Inc.
4300 North California Avenue
Chicago, Illinois 60618

*SHERWOOD
Everything you hear is true.

*The value shown is for informational purposes only. The actual resale price will be set by the individual Sherwood Dealer at his option. The cabinet shown is constructed of select plywood with a walnut veneer covering.
Beyer's latest headphones

The DT-440, a high velocity type, is the newest stereo headphone from Beyer Dynamic. According to the manufacturer, the model provides full and clean bass response with great clarity of the highs and accuracy in the midrange. Beyer claims up to 116 dB of acoustic output and very low distortion. Finished in brushed aluminum and mat black, the DT-440 weighs only 9.5 oz. The price is $55.

New top receiver from JVC

JVC America has introduced a new flagship, JR-S600, for its receiver line. Rated at 110 watts (20.4 dBW) per channel into 8 ohms, 20 Hz to 20 kHz with THD not over 0.1%, the model features slide controls for volume and balance, as well as for the integral five-band SEA graphic equalizer. Twin panel meters display output wattage, and a low-distortion FM quadradure detector, phase-lock multiplex circuitry, and Dolby noise reduction are combined for what JVC considers state-of-the-art FM reception. The striking JR-S600 retails for about $750. Other models in the line range down to $200.

Sidereal Akustic makes debut with Model One

Appropriately enough, the first product from Sidereal Akustic, a West Coast company, is the Model One loudspeaker. The three-way system uses two 10-inch woofers, a 1½-inch dome midrange radiator, and two piezoceramic supertweeters. The manufacturer claims a 4-ohm impedance rating and an unusually flat impedance curve, the result of mounting the woofers in a resistive reflex enclosure. The tweeters are said to have a frequency range from 10 to 23 kHz. The Model One, which features a particleboard enclosure, is fuse-protected and, according to Sidereal Akustic, can handle the output of any commercially available amplifier. The price of the system is $499.

Tube components de Lux

Lux Audio has introduced a tubed mono power amp, the MB-3045, and stereo preamp, the CL-35 111. The tubes, according to Lux, are responsible for “soft” clipping and less distortion when the amplifier is driven beyond rated power. The MB-3045 features a triode tube developed jointly by Lux and NEC. Lux claims a frequency response from 10 Hz to 40 kHz ±1 dB for the amplifier, with a power rating of 50 watts (17 dBW) continuous into 4, 8, or 16 ohms. The preamp features high and low noise filters and six selectable turnover frequencies. Rated frequency response is 2 Hz to 80 kHz, +0. 0.5 dB. Suggested price for the MB-3045 is $445 and $745 for the CL-35 111.

DiscProtec, from Canyon Products, is designed to protect records from wear and to preserve their tone quality. Thomas J. Loran, president of Canyon Products and inventor of DiscProtec, says that the product, when properly applied, will reduce stylus wear with no audio distortion or loss of fidelity. The dry solution, sprayed onto the record surface, leaves a thin water- and oil-repefling material on which the stylus will then glide instead of on the plastic of the record. According to Canyon Products, DiscProtec will neither evaporate nor turn gummy, and it prevents dust buildup. Both sides of approximately 29 LPs may be treated with one bottle at a suggested selling price of $6.95.
Say music enthusiasts

"I have to relisten to all my Pink Floyd and Frank Zappa albums because I realize now I never really heard them before. Freaks me right out!"

LARRY ROGAK, N.Y.

About accuracy

"Elton John sounds like Elton John and not Wayne Newton with a sinus condition. All kinds of music sound great, from Percy Faith to Led Zeppelin."

GRANT HOWES, MICHIGAN

You can play it loud

"I once read it was not possible to have a rock concert in your home, but with the B·I·C VENTURI™ it is possible."

RICHARD KNES, ILLINOIS

Or play it low

"I feel I must write...to thank someone that realizes there are a few of us who don't like our stereo and quad up blasting our ear-drums. These Formula are great at any volume."

MRS. GAIL MCAULOF, CALIFORNIA

From professionals

"I am a disc jockey and work with some of the finest sound equipment available...I purchased a set of your Formula 4's after a year of shopping around...In my opinion none sounded better at any price."

DAVID FOOR, FLORIDA

And audio engineers

"I'm an audio engineer at (AM, FM, TV broadcast station) ...An excellent speaker and a great design concept."

PHIL JONES, SOUTH CAROLINA

Even people who sell audio

"You've really got the product...my recommendation 9 times out of 10 is B·I·C VENTURI."

DAVID WILLIAMS, TEXAS (DEALER)

And those who've lived with it

"Nearly a year ago I purchased a pair of Formula 6...the performance has substantiated my original beliefs."

JERRY GRETZINGER, MICHIGAN

So join this fellow who says

"I could not be more pleased with the performance of your product, nor with myself for having the good sense to have chosen them!"

RONALD BERTHEL, N.Y.

Because you can believe

"I was somewhat skeptical about the claims in your advertisements...I purchased a pair of Formula 6...Your speakers surpass all the claims made...They are fantastic!"

RANDOLPH L. KRUMM, N.J.

Find out why all these people are saying such nice things about the B·I·C VENTURI Speaker System. Send for our free 20-page "Consumer's Guide to Loudspeaker Performance." Simply write to:

B·I·C VENTURI
Westbury, N.Y. 11590.
HiFi-Crostic No. 13
by William Petersen

To solve these puzzles—and they aren't as tough as they first seem—supply as many of the Output words as you can in the numbered dashes following the Input. Unless otherwise specified in the Input, the Output consists of one English word. Comp means compound, or hyphenated word.

Transfer each letter to the square in the diagram that bears the corresponding number. After only a few correct guesses you should begin to see words and phrases emerging in the diagram, which when filled in will contain a quotation related to music, recordings, or audio.

The words in the quotation are separated by darkened squares and do not necessarily end at the end of a row.

Try to guess at these words and transfer each newly decoded letter back to its appropriate dash in the Output. This will supply you with further clues.

A final clue: The source of the quotation—the author and his work—will be spelled out by the first letters in the Output, reading down.

The answer to HiFi-Crostic No.13 will appear in next month's issue of High Fidelity.

**DIRECTIONS**

<table>
<thead>
<tr>
<th>INPUT</th>
<th>OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Italian-American composer (b. 1911): Seebachian</td>
<td>150 37 108 173 130 123 85</td>
</tr>
<tr>
<td>B. Of sound, between roughly 15 and 15,000 Hertz</td>
<td>155 116 70 44 90 179 132</td>
</tr>
<tr>
<td>C. Medieval string instrument without a fingerboard</td>
<td>17 149 111 43 125</td>
</tr>
<tr>
<td>D. Got a fly</td>
<td>101 59 135 10 35 164 27</td>
</tr>
<tr>
<td>E. Russian-American violist (b. 1901); among the works he has commissioned is a concerto by William Walton</td>
<td>124 107 161 85 24 47 37</td>
</tr>
<tr>
<td>F. With Word XX, a masque by Handel</td>
<td>22 73 187 106</td>
</tr>
<tr>
<td>G. Wagner's father-in-law</td>
<td>163 120 133 53 94</td>
</tr>
<tr>
<td>H. Abandoned</td>
<td>105 128 11 82</td>
</tr>
<tr>
<td>I. See Word Q</td>
<td>40 96 15 185 66</td>
</tr>
<tr>
<td>J. In place dance, derivative from the twist</td>
<td>79 154 12 183</td>
</tr>
<tr>
<td>K. Schoenberg's Composition with _____ (2 wds.)</td>
<td>126 1 71 25 160 139 9 182</td>
</tr>
<tr>
<td>L. Person who superintends the forms of a public occasion (stage)</td>
<td>42 16 109</td>
</tr>
<tr>
<td>M. With Word ZZ, the correct date of Weber's Op. 65, often mistranslated in English (Ger.)</td>
<td>145 95 181 26 56</td>
</tr>
<tr>
<td>N. The note D in the nomenclature of France and Italy</td>
<td>81 174 152 5 66 116 97 141</td>
</tr>
<tr>
<td>O. Paul _____ Czech-American musicalologist long a professor at Indiana University (b. 1889)</td>
<td>148 157 38 55</td>
</tr>
<tr>
<td>P. Important collection of 15th-century German songs</td>
<td>74 153</td>
</tr>
<tr>
<td>Q. With Word I, 1931 musical music by Arthur Schwartz, Dancing in the Dark (2 wds.)</td>
<td>33 83 13 109 142</td>
</tr>
<tr>
<td>R. British organist, choral conductor, and prime minister</td>
<td>72 103 48 3 158 176 19</td>
</tr>
<tr>
<td>S. Icelandic, basis of the Old Norse, basis of Peter Cornelius opera Gunild</td>
<td>145 95 181 26 56</td>
</tr>
<tr>
<td>T. One who lavishly imitates his superiors</td>
<td>81 174 152 5 66 116 97 141</td>
</tr>
<tr>
<td>U. Professional name of Pat Boone's younger brother, both have recorded for Dot label</td>
<td>148 157 38 55</td>
</tr>
<tr>
<td>V. Form of poetry, from the Greek, a song</td>
<td>74 153</td>
</tr>
<tr>
<td>W. _____ for one</td>
<td>33 83 13 109 142</td>
</tr>
<tr>
<td>X. Belgian violinist (1858-1931)</td>
<td>72 103 48 3 158 176 19</td>
</tr>
<tr>
<td>Y. Pulitzer Prize-winning Denver musical (4 wds.)</td>
<td>145 95 181 26 56</td>
</tr>
<tr>
<td>Z. Irish music festival held annually since its inception in 1897 (2 Gaelic wds.)</td>
<td>145 95 181 26 56</td>
</tr>
</tbody>
</table>

**Solution to last month's HiFi-Crostic appears on page 7.**
AKAI INTRODUCES ITS LOADED DECK.

The new Akai GXC-570D is our top-of-the-line stereo cassette deck. And it's loaded.

It utilizes a 3 head recording system — a GX glass and crystal combination head so you can source monitor when recording and, if you don't like what you've got, an erase head.

It has a closed loop dual capstan drive system which not only pulls, but feeds the tape across the heads, smoothly. That's the best drive system there is.

It has Akai's exclusive Sensi-touch® control system so you can go from one mode to another without ever pushing a button. You just touch them, lightly.

It has 3 motors, dual process Dolby®, remote control (optional) and as many switches and features as cassette decks costing a lot more. Plus something brand new — an electrically operated control panel cover. Just so you can impress people.

Plug in our GXC-570D and you'll know you're playing with a loaded deck. That's the strength of the Akai line. Quality. Performance. Loaded. From top to bottom.

After all, nobody should be playing with half a deck.

AKAI COMIN' ON STRONG!
The Beogram 4002. If music in your home is important to you, it should begin here. The Beogram 4002 is a fully automatic turntable which exhibits a level of creativity and engineering skill unequalled in the field of audio components. Its tangential tracking permits the record to be played back in exactly the same manner that the original performance was recorded. Electronic logic circuits, activated by a single light touch on the control panel, automatically cue the stylus, select the correct speed and record size, and turn off the unit when the selection is finished. Furnished with Bang & Olufsen's finest cartridge, in itself an acknowledged masterpiece of audio engineering.

A full color brochure presenting all of Bang & Olufsen's audio components is available upon request.

Rarely has technology served music so well.

Bang & Olufsen

Bang & Olufsen of America, Inc., 515 Busse Road, Elk Grove Village, Illinois 60007
BIC's Newest Venturi:
Big Sound in a Little Box

The Equipment: BIC Venturi Formula 1, a loudspeaker system in wood enclosure with simulated wood-grain finish; foam grille available in choice of four colors. Dimensions: 16½ by 10¾ by 10 inches. Price: $74.95. Warranty: "limited," five years parts and labor. Manufacturer: British Industries Co. (Division of Avnet, Inc.), Westbury, N.Y. 11590.

Comment: The Formula 1 is the baby brother of the Venturi line that BIC has been building for the last few years. Like its siblings, it uses a form of ducted-port loading for the woofer with a slotted port and an internal configuration that is said to increase the velocity of the air passing through it by constricting the passage (à la the Venturi principle) to achieve exceptional deep-bass response for the enclosure size. The tweeter in the Formula 1 is a Biconex (combined conical and exponential, with equal flare in both horizontal and vertical planes) horn design that is used in other Venturi models.

This speaker does not have one feature common to all the older models: Automatic Dynamic Tonal Balance Compensation, a built-in and switchable signal-controlled loudness compensation circuit. But it does have (on the back panel, together with a pair of spring-loaded connectors engineered for bared-wire leads) the manual control, a continuously adjustable knob marked ROCK & POP/BRIGHT toward the extreme clockwise rotation, CLASSICAL/LINEAR in the central region, and BACKGROUND LEVEL/MELLOW for almost half of its range in the counterclockwise direction. The lab set this control at its midpoint (near the bottom of the LINEAR range) for the anechoic measurements shown here. We found this a good setting for most purposes, though higher (brighter) settings are preferred by some listeners.

Tests in the CBS anechoic chamber show that the control influences response significantly above approximately 3.5 kHz, giving up to about 5 dB of boost and 3 dB of reduction, with respect to the midpoint setting, at its extremes of rotation. The omnidirectional response measured at the midpoint falls gradually as frequency rises from 100 Hz to beyond the test range, making numerical characterization somewhat problematical. The spread is ±6½ dB from about 60 Hz to 8 kHz; it is ±9 dB from 50 Hz to beyond 16 kHz. Even at this setting test tones remain audible to at least 16 kHz.

Listening tests also confirm that deep bass falls off precipitately. Doubling takes over by about 40 Hz, though some fundamental can still be detected. (BIC claims "effective response" to 35 Hz; in our test room this was the approximate limit of fundamental audibility.) Pink-noise tests show very little coloration and good balance, if not the utmost in "open" quality. Both pink noise and sine waves confirm good high-frequency dispersion with little audible change to 60 degrees off axis in any direction, exactly confirming BIC's spec of 120-degree dispersion both horizontally and vertically.

REPORT POLICY Equipment reports are based on laboratory measurements and controlled listening tests. Unless otherwise noted, test data and measurements are obtained by CBS Technology Center, Stamford, Connecticut, a division of Columbia Broadcasting System, Inc., one of the nation's leading research organizations. The choice of equipment to be tested rests with the editors of HIGH FIDELITY. Manufacturers are not permitted to read reports in advance of publication, and no report or portion thereof may be reproduced for any purpose or in any form without written permission of the publisher. All reports should be construed as applying to the specific samples tested; neither HIGH FIDELITY nor CBS Technology Center assumes responsibility for product performance or quality.
But the Formula 1 does best when it is given musical signals to work with. Details of transients and instrumental colors are nicely handled, voices are convincingly reproduced without the intrusive colorations that are commonplace in this price class, stereo imaging is firm and detailed. Complex orchestral tuttis are not as transparent as in some speakers we have heard, but the system can hardly be faulted seriously in this respect. The lab's pulse test at 3 kHz does show some evidence of ringing, but the aforementioned loss of orchestral clarity aside—we could find no real evidence of it in listening to music.

The inherently low cost of the speaker is further enhanced by its ability to deliver plenty of sound with relatively low input power. The average sound pressure level (250 Hz to 6 kHz) delivered for a 0-dBW* (1 watt) input is 89.6 dB. Signs of overload appear with steady 300-Hz tones only at 106 dB SPL, which requires an input of 6.1 dBW (a hair over 40 watts). In pulse tests at this frequency the Formula 1 can make it to 115 dB SPL (from a peak power of over 25 dBW or close to 340 watts) before distortion reaches normal limits. In other words, it is a relatively efficient speaker with a good dynamic range that, in addition, will handle instantaneous "overloads" very gracefully. It will also handle paralleling well; impedance drops only slightly below the manufacturer's 8-ohm rating (CBS measures the nominal impedance as 7.3 ohms at about 150 Hz) and exceeds it from about 350 Hz up. The impedance curve is, moreover, unusually smooth.

All this adds up to an exceptionally attractive speaker for less-than-lavish systems. It does nicely in smaller rooms, where it needs only a modest amplifier to function well to high listening levels. It will handle heftier amplifiers—certainly to 17 dBW (50 watts)—with no discomfort, and it will fill larger rooms if you want it to. And it really will fit on a bookshelf.

**CIRCLE 135 ON READER-SERVICE CARD**

*For an explanation of this term, see page 50.

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**Epicure 11: Big Sound in a Plain Brown Wrapper**


**Comment:** Considering the constraints that operate to keep loudspeakers very similar in their basic appearance, the wide divergence observed in their visual personalities is well nigh amazing. There are some that leave an indelible mark on the decor of a room; some fit right in; some are hardly noticed at all. The Epicure 11 belongs in the last category: It could almost be called a tour de force in understatement. But once connected to an amplifier (the manufacturer recommends 15 to 80 watts—12 to 19 dBW—of continuous power per channel, and we tend to favor the upper part of that range), the system is capable of fine performance.

Epicure Model 11 is of dimensions—and of weight—that make it very suitable for bookshelf mounting. On its rear panel are a pair of color-coded, spring-loaded terminals that accept bared wires (although, for safety and convenience, tinning the wires is a good idea). Near the terminals is a three-position switch (labeled NORMAL/MEDIUM/LOW) that controls the tweeter output level, with NORMAL the "brightest" of the settings. MEDIUM lowers output at 10

---

**BIC Venturi Formula 1 Harmonic Distortion**

<table>
<thead>
<tr>
<th>Output Level (dB)</th>
<th>80 Hz % 2nd</th>
<th>80 Hz % 3rd</th>
<th>300 Hz % 2nd</th>
<th>300 Hz % 3rd</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>0.16</td>
<td>0.55</td>
<td>0.22</td>
<td>0.26</td>
</tr>
<tr>
<td>75</td>
<td>0.16</td>
<td>0.50</td>
<td>0.19</td>
<td>0.24</td>
</tr>
<tr>
<td>80</td>
<td>0.16</td>
<td>0.55</td>
<td>0.21</td>
<td>0.27</td>
</tr>
<tr>
<td>85</td>
<td>0.16</td>
<td>1.3</td>
<td>0.37</td>
<td>0.28</td>
</tr>
<tr>
<td>90</td>
<td>0.16</td>
<td>2.3</td>
<td>0.83</td>
<td>0.33</td>
</tr>
<tr>
<td>95</td>
<td>0.20</td>
<td>2.7</td>
<td>1.5</td>
<td>0.43</td>
</tr>
<tr>
<td>100</td>
<td>0.40</td>
<td>2.2</td>
<td>2.8</td>
<td>0.60</td>
</tr>
<tr>
<td>105</td>
<td>4.5</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>106</td>
<td>5.5</td>
<td>1.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Distortion data are taken on all tested speakers until distortion exceeds the 10% level of the speaker produces the spurious output known as buzzing, whichever occurs first.*
kHz by about 3 dB and low by another 3 dB. Following the manufacturer's advice, CBS ran most of the tests with the setting on MEDIUM.

The omnidirectional frequency response measures ±5 dB, 31.5 Hz to 12.5 kHz (with respect to a sound pressure level of 77.5 dB). Perhaps more important, the curve falls off with a slope that is nearly constant from 100 Hz to the upper limit of response (16 kHz or so, for practical purposes). Adjusting the control to NORMAL lessens this decline, of course, and LOW will make it yet steeper. Below 100 Hz anechoic response falls off smoothly at about 6 dB per octave.

The lab data for power handling are not overly impressive, but reproduced sounds are "bigger" than this data would suggest. With an input of 16 dBW (40 watts), Model 11 produces an output SPL of 100 dB (at 1 meter) without excessive distortion. From pulse power at the same 300-Hz test frequency, the unit produces a peak SPL exceeding 107 dB with a peak power input of 24 dBW (251 watts). Efficiency is on the low side: A 0-dBW (1 watt) input delivers an output of 83 dB SPL (average, 250 Hz to 6 kHz). The impedance curve, while not particularly smooth, never dips below the 6.7 ohms measured at the nominal rating point, so it offers no severe pitfalls to an unwary amplifier.

In listening evaluation, the Epicure 11 shows excellent transient response, excellent handling of high-level pulses, and an uncanny ability to play at realistically loud levels. We can only speculate as to why the listening performance outstrips the measured data in this way, but possible answers include low intermodulation distortion and the fact that the onset of serious harmonic distortion occurs suddenly and only with relatively large amounts of power. (There is sufficient audible suffering, however, to warn a heavy hand on the volume control to ease off.)

Sine waves are audible and clean from just below 40 Hz to about 16 kHz, with some beaming evident at the upper frequency. Dispersion is very good, however: A 12-kHz tone is audible almost throughout the front radiation hemisphere. Pink noise in one-third-octave bands confirms good dispersion and smooth frequency response. Wideband pink noise is reproduced with a somewhat bright cast, but adding "oomph" to the bottom end via tone controls brings no complaint from the woofer. This driver, despite its relatively small size (6-inch diameter, nominal), performs its labors well and when pushed beyond its limits gives up with minimal sounds of struggle.

To sum up, we would characterize the Epicure 11 as a real sleeper, a speaker that would be very easy to miss—except for its sound. It can be driven by amplifiers that are modest in output and will rise to heights that are respectable, if not exclusive, when more muscle is available. Here is a fairly small box that, unlike Pandora's, is full of happy surprises, including a moderate price.

**Genesis Model I,**

**an Intimate Loudspeaker**


**Comment:** Some of us—probably because our bookshelves are not made of prestressed concrete and we need some room left over for books—tend to regard the term "bookshelf loudspeaker" with misgivings. Refreshingly, the 28-lb. Genesis will fit conveniently and safely on a bookshelf of ordinary construction. The announced aim of the de-
signers is to produce a small speaker with high performance capabilities and a modest price. We would agree that they have succeeded to a notable extent.

The exterior of this unit is simple indeed. The front is faced with a white grille fabric (removable, but only with difficulty) decorated with a tasteful nameplate. On the back are a pair of color-coded, spring-loaded connectors designed to accept bared (preferably tinned) wires. There are no balance controls, but the manufacturer's instructions are quite explicit as to how the low-frequency response is affected by room placement.

Omnidirectional frequency response, as measured in the anechoic chamber at the CBS Technology Center, is about ±5 dB between 45 Hz and 18 kHz, exactly as claimed. Moreover, the response curve about 63 Hz is one of the smoothest we have seen, varying by ±2½ dB or less up to 10 kHz, where it rolls off gradually. Capable of producing an average sound pressure of 87 dB at 1 meter on axis, 250 Hz to 6 kHz, from a 0-dBW (1-watt) electrical input, the system is moderately efficient. This fact compensates somewhat for the limitations shown in the power-handling test. Actually, for the likely applications of the Genesis I, its steady-state output (just shy of 100 dB sound pressure at 300 Hz without excessive distortion) is quite adequate, and its pulse capability (nearly 107 dB peak at the same frequency) is downright commendable. We would estimate that an amplifier rated at 25 to 30 watts (14 to 15 dBW) of continuous power per channel would drive a set of these speakers very well.

The amplifier will benefit, too, from the relatively smooth impedance curve of the speaker. The data confirm the manufacturer's rated impedance of 8 ohms and, further, show just one insignificant dip below that value.

There certainly should be no problem in paralleling two sets across the output of a typical solid-state amplifier.

High-frequency dispersion is good, with tones approaching 18 kHz audible to about 40 degrees off axis. The low end holds up well to about 40 Hz, both on sine waves and one-third-octave bands of noise. Below this frequency, provided the power input is kept reasonable, the response retires gracefully, without buzzes, rattles, and the like. On wide-band pink noise the speaker produces a smooth overall sound that is just a trifle weak in the bass. This, as we shall see, poses no problem in listening.

To get the best results from the Genesis I, a listener must respect its essential personality: The unit will not play loudly in a large room. Once this is accepted the results are indeed excellent, especially since the bass rolloff is smooth and gradual enough so that loudness compensation (à la Fletcher-Munson) is taken easily in stride. Positioned 4 feet or so from the corners of a room, and with the listener seated 8 to 10 feet away from them, a stereo pair of these speakers reproduce the sound of an orchestra with a perspective that is on the distant side but extraordinarily clear and detailed. As a reproducer of chamber music, the system is exceptionally attractive. As with other accurate transducers, the very lack of coloration seems disappointing at first, but one soon realizes that it is possible to hear "through" these speakers to the music almost without effort.

If your listening space is intimate rather than expansive and you like to hear music at moderate (though by no means lifeless) levels, the Genesis I is a loudspeaker to audition—carefully. And it won't strain your budget, either with its own price or the cost of an amplifier to drive it.

**Sonab OA-14, an Electroacoustic Ventriloquist**


**Comment:** A glance at one of the Sonab "orthoacoustic" loudspeakers from a distance of 10 feet or so would leave most people in considerable doubt as to its intended function. Is it, perhaps, a room humidifier? Of course, as one gets closer one can see the drivers through the wire-mesh top. There is a bass-midrange unit aimed about 15 degrees away from vertical and inward, toward the listening area. Two of the four tweeters (the crossover is at 1,800 Hz) are aimed similarly except for a lower radiation angle, and two are positioned to bounce sound off the side walls and the wall between the two speakers. The back radiation of the woofer is coupled to a duct-tuned bass-reflex enclo-

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**Genesis I Loudspeaker Harmonic Distortion**

<table>
<thead>
<tr>
<th>Output Level (dB)</th>
<th>80 Hz</th>
<th>Frequency 300 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>% 2nd</td>
<td>% 3rd</td>
</tr>
<tr>
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<tr>
<td>100</td>
<td></td>
<td>8.0</td>
</tr>
</tbody>
</table>

*Distortion data are taken on all tested speakers until distortion exceeds the 10% level or the speaker produces the spurious output known as buzzing, whichever occurs first.*

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**Response Characteristics**

- **Average omnidirectional response:** ±2 dB, 50 Hz to 16 kHz, re 0 dB@1 kHz
- **Average front hemispheric response:** ±1 dB, 50 Hz to 16 kHz, re 0 dB@1 kHz

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**Circle 131 on Reader-Service Card**
sure, and the port (from which most of the low frequencies emerge) is located at the bottom of the cabinet.

Obviously this is intended as an indirect radiator—or what some American companies were calling "omnidirectional" loudspeakers a few years back. Some sound reaches the listener directly from the drivers, and the remainder only after reflecting off walls, ceiling, and furniture. For best effect the OA-14 should be placed at least 1 meter from room corners, according to Sonab; designer Stig Carlsson has mounted the system on large, smooth-acting casters so that it can easily be moved about. He also has provided mirror construction in the two speakers of the stereo pair. (They are sold only in pairs.) Connections are made—via a DIN-style speaker jack—at the bottom of the unit; there are no controls.

Electrically, the model is only moderately efficient; it produces an average output (250 to 6,000 Hz) of 84½ dB sound pressure level from an input of 0 dBW (1 watt). A steady 300-Hz tone is produced at 97 dB SPL—from an input of 17 dBW (50 watts)—before excessive distortion sets in. But despite this fairly modest steady power capability, the speaker is capable of a "big" sound. This is partly because levels of 105 dB and above can be reached on pulses; the maximum peak output of the test amplifier (25 dBW, or 321.4 watts) is accepted without signs of undue strain. Rated impedance (8 ohms) is reached only at about 5 kHz. At all other points in the spectrum this value is exceeded, and the CBS lab gives the Sonab a nominal impedance rating of 11.2 ohms at 200 Hz.

The anechoic omnidirectional frequency response of this speaker is ± 5 dB from 63 Hz to just beyond 16 kHz re 84½ dB SPL. Output falls by about 6 dB between 60 and 30 Hz, the point at which useful low-frequency radiation becomes practically nil. The power-handling ability of the woofer at low frequencies does, however, permit moderate boost below 50 Hz, and we found that this improves the tonal balance. The tweeters, on the other hand, are not so ready to rise to the occasion and give some audible evidence of overload when driven hard at 12 kHz and above. They tend toward an edginess of sound, perhaps due to intermodulation distortion, on loud musical signals as well as test tones.

As might well be expected from a design such as this, dispersion of all frequencies is excellent. The character of wideband pink noise varies very little as one wanders through the listening area. Some coloration can be heard in this test: A rumbling quality and the aforementioned edginess obtrude just slightly.

On musical program material we find that the transient response of a pair of OA-14s is very good indeed. Stereo imaging—which should be a strong point—is more proble-

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**Sonab Model OA-14 Harmonic Distortion**

<table>
<thead>
<tr>
<th>Output Level (dB)</th>
<th>80 Hz</th>
<th>Frequency</th>
<th>300 Hz</th>
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</thead>
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<tr>
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<td>% 3rd</td>
<td>% 2nd</td>
</tr>
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*Distortion data are taken on all tested speakers until distortion exceeds the 10% level or the speaker produces the spurious output known as buzzing, whichever occurs first.

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A Price Correction

The price of the Stax SRX Mk. 3 ear speakers (headphones) was reported incorrectly in March. The correct price is $230.

Comment: Wherever the so-called "West Coast sound" is supposed to be hiding these days, its refuge is not in the JBL L-166 Horizon loudspeaker. The omnidirectional, anechoic frequency response of this unit (+3 dB between 40 Hz and 10 kHz), made with the balance controls at their "zero" settings, is commendably flat, and advancing the tweeter level control to its maximum ("+3") appears to make the high end even flatter. (Some listeners may find that this gives too bright a sound, but we liked this balance best.) The Horizon, to be sure, has its own ways of coloring the reproduced sound, but these are relatively slight and not representative (to our ears at least) of any school of thought in speaker design. So much for geographical myths.

Measured performance data taken at the CBS Technology Center show that the L-166 is above average in efficiency, producing an average output (250 to 6,000 Hz) of 89 dB sound pressure level at 1 meter on axis from an electrical input of 0 dBW (1 watt). This fact should not, however, tempt anyone into skimping on amplifier power, for this is a speaker that produces its most lifelike sound when driven fairly hard. With a steady-state 300-Hz input signal averaging about 6 dB between maximum ("+3") and minimum ("-3") position provides a very rapid drop in response above 12 kHz. The midrange control is most effective between approximately 1.5 and 6 kHz, with a spread averaging about 6 dB between maximum ("+3") and minimum ("-3"). We find that setting this control to "+1" gives very pleasant results, especially when listening to female vocals. To judge from the sound of wideband pink noise reproduced via the JBL, the model accepts moderate equalization gracefully (and gratefully) in the range of 50 Hz and below. Without equalization the low end, which rolls off at about 6 dB per octave, remains audible quite close to 30 Hz. One-third-octave bands of pink noise centered as high as 14 kHz undergo little change in quality as one moves from 15 degrees off axis to almost 90 degrees off axis, showing excellent dispersion from the tweeter.

Above bass resonance the impedance curve of the L-166 is quite smooth. At the rating point (about 130 Hz) it measures 7.3 ohms and stays above this value throughout the midrange—the critical range in terms of musical energy and hence of possible excessive current demands on a solid-state amplifier when two speakers are paralleled in the same channel. The impedance drops to about 6 ohms in the region around 8 kHz, however.

Transient response is very good, though not quite outstanding, in our judgment. Onset transients are dulled a bit, giving the sound a slightly distant character, while whatever overhang the unit may produce blends nicely with recorded reverberant sound. The measured frequency response (omnidirectional, anechoic) shows a moderate peak around 500 Hz, and we suspect this of obscuring sung and spoken words just slightly, as well as giving violas and cellos a mild guttiness. Yet we find the total sound big, clear, and pleasing—and just a little on the warm side.

The listener in search of a moderate-sized monitor type loudspeaker that can be mounted on a bookshelf (a strong one, however) would do well to consider the JBL L-166 Horizon. The unit is not cheap—but then, neither are the design and construction. Not only is the sound fine, but the cosmetics are striking (as we have come to expect from JBL). The grille is a molded and perforated sheet of what is called APP, a new material for which the company claims even better acoustic transparency than that of the widely copied sculptured-foam treatment on the Century model. (The balance controls are readily accessible behind this grille.) Its black finish contrasts nicely with the natural wood grain of the enclosure.

JBL L-166 Horizon Harmonic Distortion

<table>
<thead>
<tr>
<th>Output Level (dB)</th>
<th>80 Hz % 2nd</th>
<th>80 Hz % 3rd</th>
<th>300 Hz % 2nd</th>
<th>300 Hz % 3rd</th>
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<td>1.2</td>
<td>1.6</td>
</tr>
</tbody>
</table>

*Distortion data are taken on all tested speakers until distortion exceeds the 10% level or the speaker produces the spurious output known as buzzing, whichever occurs first.
The new 1976 edition of High Fidelity's Test Reports is packed with more than 200 test reports of currently available stereo and four-channel equipment and accessories, including:

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Turntables & Pickups • Speakers • Tuners . . . and more!

This year's edition is better than ever! Almost 300 pages of in-depth analyses with charts, tables, pictures and prices, plus a guide to technical audio terms.
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Everyone seems to refer to Henry Kloss as the “K of KLH,” but the KLH Research and Development Corporation was only a ten-year interim period for Kloss between his first company association—at Acoustic Research, which he helped Edgar Villchur found in 1953 and left in 1957—and his present one—at Advent Corporation, which he founded in 1967. For the record, the “L” of KLH was Malcolm Low, and the “H” was Anton “Tony” Hofmann.

In the early 1950s, Kloss was an undergraduate physics major at MIT. To help support himself he started a woodworking business, which soon became devoted mainly to building speaker enclosures for students experimenting in the MIT acoustical laboratories. Intrigued by this work, Henry himself began carting home audio gear from parts-supply outlets and became fascinated with the idea of translating the concepts and performance of that equipment into products suitable for home use. One of his earliest preoccupations was understanding and solving the problems of the moving-coil loudspeaker.

After MIT he taught electronics to GIs at Ft. Monmouth, New Jersey. While there he also attended an adult education course in sound reproduction given at New York University by Villchur. Low was a fellow instructor at Monmouth; Hofmann, a theoretical physicist (and son of pianist Josef Hofmann), was a neighbor in Cambridge who asked Henry to build him a special speaker enclosure at the workshop (a loft off Harvard Square) that Kloss maintained for weekend projects. Villchur and his student Kloss, to whom he had introduced the acoustic suspension concept, got together with Low and Hofmann (each investing $2,500) and formed Acoustic Research in 1953.

In 1957 the four agreed to part company. Kloss, Low, and Hofmann established KLH to produce their own line of speakers under an agreement with AR. Kloss insisted on making speakers from the ground up and set up his own papermaking facility so that KLH could produce its own diaphragms rather than modify existing ones. According to Kloss, this approach "gave us full control over the midrange." He points with pride to the KLH Model Six, which he feels was one of the most important speaker systems ever made.

In 1960 Kloss brought out the KLH Model Eight radio, the first table-model FM set that high fidelity enthusiasts could take seriously. It was housed in two simple but attractive walnut cabinets, each only 10 ½ by 5 ½ inches, one containing the tuner and amplifier and the other the speaker system. It grew, actually, out of a special small speaker that originally had been designed for use in the U.S. Senate. The Senate never bought it, but having it on hand led Kloss to design suitable electronics to go before it. The present Advent 400 two-piece FM radio is a direct descendant of that Model Eight.

The following year saw the second important spinoff from that miniaturation project—the Model Eleven "stereo-in-a-suitcase" system. By 1963 this had evolved into the walnut-encased Model Twenty and touched off the whole trend toward compact (or "modular") stereo systems.

In 1967 came another breakaway. KLH was sold to the Singer Corporation, and Henry Kloss formed Advent. Malcolm Low spent some time in Utah working on computer graphics, then imported Braun equipment from Germany, and now is in York, Maine, where he runs a small company producing specialized sports equipment. Hofmann returned to his first love, theoretical physics, and is today involved in basic research.

Before leaving KLH, Kloss had become interested in the Dolby noise-reduction system, which was then still confined to recording work and other professional applications. In his own words, he "pushed Dolby into consumer products," encouraged the development of the Dolby-B system for that market, and in 1970 (after introducing the Advent Loudspeaker) wedded the Dolby concept with a new kind of tape—chromium-dioxide—that had been developed by Du Pont but was not being promoted very vigorously in consumer terms by that giant organization. The ultimate result was the Advent 201 cassette deck, which proved to be the bellwether for a new product trend: the high-performance cassette recorder.

Advent also produced its own recorded cassette to demonstrate how good the format could sound at its best. The machinery and techniques developed then provided the basis of the company’s present facility for duplicating the critically acclaimed CR/70 cassette line (Dolby-encoded and on chromium-dioxide tape). And while all this was going on Kloss also was at work on the Advent Video-beam Projection Color Television system, which displays the TV image on a large screen.

A soft-spoken man in his mid-forties, Kloss says he has no hobbies—unless thinking constantly about consumer product ideas can be called a hobby. He enjoys family life with his wife and children, perhaps regrets that he stopped riding a bicycle to work a few years ago, and "may take up tennis."

With Henry, that could mean a whole new kind of ball game.
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FUJI FX gives you the music you want, the way you want your music. Clear, crisp sound over the entire audio frequency range without perceptible distortion. A signal-to-noise ratio of better than 58 db. No hiss. Virtually failure-proof. The finest music at your fingertips without the need for any special bias. Drop in at your FUJI dealer today; then drop in a FUJI and hear music as you have never heard it before.

FUJI FX cassettes come in lengths of 46, 60 and 90. Also available, a full line of FUJI FL Low Noise cassettes in lengths of 30, 60, 90 and 120 minutes. FUJI Photo Film U.S.A., Inc. The Empire State Building, New York, New York 10001.
All about the intimate relationships between speaker efficiency, amplifier power, room size, and listening tastes.

by Norman Eisenberg

How Loud Are

One of the most striking paradoxes in high fidelity sound is the fact that though loudspeakers have, over the years, been significantly improved and audibly refined over earlier offerings, the linguistic key to understanding their basic working has remained archaic and confusing except perhaps to a relative handful of insiders—and even these worthy souls find it difficult to explain it all in simple language. The real villain in this scenario is the term "watt"—a concept widely misunderstood and misused.

A "watt" is one seven-hundred-forty-sixth (1/746) of a horsepower. How does one relate the notion of a team of sweating horses pulling a plow or cart to the idea of a walnut cabinet producing the sound of a Mozart quartet or an Oscar Peterson combo? The answer is, one doesn't really except in the most oblique and tenuous terms. Horsepower (i.e., wattage) is the rate at which work is done. Specifically, one horsepower equals 550 foot-pounds of work per second. An amplifier producing the not inconsiderable output of 746 watts has about as much potential for doing work as one healthy horse, both given the same amount of time. But what relevance does this have to the average person who only wants to enjoy his favorite music at home over audio components suitably matched with each other and, as a system, suitably matched to the room for a desired and understood quality and quality of sound? The watt does not even tell us—directly—how loud a loudspeaker will sound. For that insight we have been using the decibel, and—as you probably suspect by now—there is no simple relationship between decibels and watts.

Speakers by the Numbers?

If the existing system for "quantifying" information about loudspeakers is awkward and less than communicative, it at least has the virtue of some degree of consistency within its own framework, and it has provided some basis for the numbers that have for years been given for speakers—originally in terms of anticipated performance (such as manufacturers' specifications), and more recently in terms of actual performance (such as the data provided in HIGH FIDELITY's published test reports).

Before describing this system, though, two fac-
Your Speakers?

tors must be emphasized. One has to do with the way end measurements are derived. There is and likely always will be some discrepancy between what a metering device shows and what anyone actually hears. The other has to do with the relation of the decibel to this work: In circuit measurements (of amplifier power) or sound-pressure levels (acoustic power) a two-to-one change is represented by 3 dB. Thus, 20 watts is 3 dB higher than 10 watts; 40 watts is 3 dB lower than 80 watts. However, in terms of perceived sound, what seems (to a listener) to be a two-to-one change is represented by a change of approximately 10 dB. Thus, music coming from a speaker driven by a 20-watt amplifier does not sound twice as loud when the driving wattage is upped to 40 watts. That change—an increase of 3 dB—would be perceived as "somewhat louder." For the sound to seem twice as loud, the wattage would have to be increased tenfold, to 200 watts. Conversely, you could drop down to as little as 2 watts (a tenfold decrease in power) before reaching a level (~10 dB) where the sound would seem to be half as loud. To put it another way, if a given sound level is shown to be, say, 80 dB, adding 10 dB more (by, for example, feeding it with ten times the electrical power) will double its apparent loudness; reducing 80 dB to 70 dB will cut the apparent loudness in half.

The amount of sound a loudspeaker produces can be expressed as a sound pressure level (SPL) in decibels, or in corresponding acoustic power levels in watts. Either expression presumes specific conditions of amplifier driving power, speaker efficiency, and the acoustic load "seen" by the speaker (which implies not only the room, but its position in that room—and, in the case of a measurement via instruments, the location of the microphone used for picking up or "hearing" what the speaker is producing).

It has been customary to think of acoustic power in terms of "maximum orchestral level"—a figure based on measurements made years ago (by Bell Labs and others) which indicated that the most sound made by a full orchestra, as perceived from a "good seat" in a concert hall, came to 100 dB SPL. The same orchestra, playing as softly as possible, produced a "minimum orchestral level" of 30 dB, which was just above the normal masking level of "room noise." The dynamic range of the orchestra...
therefore was thought of as being 70 dB.

Tenuous as this formulation is, it at least offers some aural idea of the sonic dimensions involved in perceived musical sound. Table I, showing typical sound pressure levels, will help you develop some sort of acoustic perspective if you’re not already familiar with the subject. Translating this idea into the conventional wattage figures quoted for both amplifiers and loudspeakers, however, becomes very tricky, since the same input signal fed to the same speaker will produce varying levels of acoustical power, depending on the room in which it happens (as Table II demonstrates). But we’ll return to that.

This means that to get 100-dB sound pressure levels from the same speaker in rooms of different sizes requires that the input signal to the speaker be changed according to the room size, and that the speaker be capable of handling the change correctly—i.e., reducing or increasing its sonic output as directed by the amplifier signal, without an increase in distortion, at the same time that it maintains its dynamic range, linearity, tonal balance, and all the other desiderata of good speaker response.

Ideally, a speaker must be able to disperse acoustic power evenly over a wide frequency range; efficiency must be considered all across the audio band and not merely as a virtue of the lows, middles, or highs alone. For instance, a speaker that has a relatively depressed midrange will sound "softer" or "more remote" than another whose midrange is "ample" even when both are driven to the same over-all loudness levels in the same acoustic environment. You may prefer that kind of sound, but you should know what you’re getting, and you can’t tell from conventional measurements and numerical expressions. In particular, an expression like "83 dB SPL at 1 meter on axis at 1 kHz," though it appears to offer an objec-

tive statement about the efficiency of the speaker, cannot be interpreted without knowing how response at 1 kHz compares with that at other frequencies. This is why HIGH FIDELITY’s tests for this property are made (at CBS Technology Center) with evenly distributed noise in the "music" band between 200 and 6,000 Hz.

Then, too, any rule-of-thumb presumptions about room acoustics cannot take into account the complex nature of real rooms. For example, the figures in Table II are based on theoretical ideals: rooms that have optimum reverberation times and no pronounced resonant modes. These variables, which are virtually impossible to predict, can result in many departures from anticipated response, such as peaks and dips that can augment or mask certain portions of the tonal range and thereby give the effect of altered efficiency or of a tonal coloration. In other words, we generalize about speakers at our peril.

Generalization runs riot, particularly, in "speaker power ratings." Just what information does such a rating convey? Obviously when someone speaks of a "100-watt speaker" he does not mean that the speaker can produce 100 acoustical watts, because that much sound could almost bring the house down. Nor, usually, does it mean that the speaker needs 100 electrical watts to deliver its advertised performance. Such a rating would indicate both that it is a really low-efficiency speaker and that it is built robustly enough to handle that much drive. Most often it suggests that the most the speaker can safely accept from an amplifier is 100 watts. But this still gives you no idea of how much sound the speaker will produce from that 100 watts of amplifier power—nor, for that matter, how much less it will produce for lower amounts of amplifier power.

Somewhat more to the point, but still hedging, is the frequently seen "recommended amplifier power." This type of figure is closer to the minimum amplifier power needed to get the speaker to perform as claimed. But it still does not tell you how much sound the speaker will furnish when fed with that power—or conversely, how loudly the manufacturer is "recommending" you play the speaker. And it also bears no necessary relationship to the maximum-level information, which is germane to the upper safe limit of power to feed the speaker, and to the dynamic range of the speaker with respect to its rated response and distortion limits.

Which Leaves Us----

The answer of loudspeaker manufacturers to this tangle of alternative informational systems—many of which do very little to inform the prospective purchaser—has, all too often, been one of simply making no attempt at informing. Where a manufac-
The alternative, obviously, is independent, consistent tests such as those that appear in HIGH FIDELITY. First let’s take a quick look at the information HF presents, before going on to its interpretation.

Frequency response should need little comment, except to emphasize that the omnidirectional response (which represents the total energy radiated into the room) is considered most representative of how the speaker will sound. Therefore HF characterizes numerically only this omnidirectional curve in the data—which are derived, of course, in an anechoic chamber, rather than a listening room.

HF represents the overload point of the speaker—and therefore, essentially, the upper limit of its dynamic range—in a number of ways. First, the test reports give the harmonic distortion data at 300 Hz, which is carried to the speaker’s effective performance limit as manifest in rapidly rising distortion. (The limits at 80 Hz, though they may be lower in output, say more about the cleanliness of the deep bass than about dynamic range since in most music the energy at this frequency is not nearly as great as it is at 300 Hz.) The 300-Hz limit also is repeated in the text of the report. Whether you are looking in the text or in the distortion chart, keep in mind that this represents continuous-tone testing and that the important thing to find is the output level (in dB SPL) at which this limit is reached.

In the text you also will find data for the maximum pulse power that the speaker will accept—in other words, its ability to cope with brief transients that exceed the maximum power levels at which it will respond satisfactorily to continuous tones. The pulse test results represent, generally speaking, the threshold of destruction. Increase the level of the pulse, or prolong it, and a burned-out voice coil might result. For this reason some users prefer to limit the driving amplifier to one whose output rating is no higher than the pulse-power limit of the speaker, to minimize the possibility of speaker damage without compromising its transient response.

In terms of dynamic range, the continuous-power limit is the more significant. Not only can you damage the speaker if you attempt to drive it beyond this level with continuous musical signals, but in this range changes in driving power are not exactly mirrored by changes in acoustic output. At lower levels, you can rely on any good speaker to give you what might be called good dynamic linearity. But as suspensions and voice-coil windings near their limits, the increase in acoustic output no longer will be proportional to the increase in drive power.

The moral of this should be obvious: In all that follows it must be understood that at no point should you plan to drive a speaker beyond (or even, preferably, as far as) its continuous power rating.

The importance of this reminder becomes evident when we look at another specific in the test.

### Table I

<table>
<thead>
<tr>
<th>dB</th>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>130</td>
<td>Approaches threshold of pain (Note: some rock groups have been known to perform at, or at least to hit peaks of, 120 dB or more)</td>
</tr>
<tr>
<td>125</td>
<td>First row at symphony concert; orchestra playing tutti and fortissimo</td>
</tr>
<tr>
<td>120</td>
<td>Subway station, express passing through</td>
</tr>
<tr>
<td>115</td>
<td>Maximum concert levels in a &quot;13th row seat&quot; (about midway in the hall); riveter, 25 feet away</td>
</tr>
<tr>
<td>110</td>
<td>“Very loud”; high-powered playback system in average large room</td>
</tr>
<tr>
<td>105</td>
<td>Factory, average loud level, playback system</td>
</tr>
<tr>
<td>100</td>
<td>Busy street traffic</td>
</tr>
<tr>
<td>95</td>
<td>Ordinary conversation, 3 feet away</td>
</tr>
<tr>
<td>90</td>
<td>Restaurant</td>
</tr>
<tr>
<td>85</td>
<td>Small store</td>
</tr>
<tr>
<td>80</td>
<td>Ambient level, average apartment</td>
</tr>
<tr>
<td>75</td>
<td>Quiet house, country</td>
</tr>
<tr>
<td>70</td>
<td>Broadcast studio</td>
</tr>
<tr>
<td>65</td>
<td>Empty theatre</td>
</tr>
<tr>
<td>60</td>
<td>Average whisper, 4 feet away</td>
</tr>
<tr>
<td>55</td>
<td>Quiet whisper, rustle of leaves</td>
</tr>
<tr>
<td>50</td>
<td>Threshold of hearing</td>
</tr>
<tr>
<td>45</td>
<td>Threshold of hearing</td>
</tr>
<tr>
<td>40</td>
<td>Threshold of hearing</td>
</tr>
<tr>
<td>35</td>
<td>Threshold of hearing</td>
</tr>
<tr>
<td>30</td>
<td>Threshold of hearing</td>
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<td>25</td>
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<td>20</td>
<td>Threshold of hearing</td>
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<tr>
<td>15</td>
<td>Threshold of hearing</td>
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<tr>
<td>10</td>
<td>Threshold of hearing</td>
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<tr>
<td>5</td>
<td>Threshold of hearing</td>
</tr>
<tr>
<td>0</td>
<td>Threshold of hearing</td>
</tr>
</tbody>
</table>
In the past, HF has shown speaker sensitivity in terms of how many watts had to be fed in before acoustic output (at 1 meter on axis, using the aforementioned noise spectrum between 200 and 6,000 Hz, in the anechoic chamber) of 94 dB SPL is reached. The new method (explained in greater detail immediately following this article) answers the same question in reverse: What sound pressure...
level will the speaker achieve for an input of 1 electrical watt (0 dBW—again, as explained in the following article). This is tantamount to an efficiency rating, since it is on the basis of this figure that you can determine how much amplifier power you need to achieve a given sound pressure level in a given room.

**Applying the Numbers**

Now let's see how all these elements fit together. The first decision you must make is how loudly you want to play your music. This is the most important single variable in choosing your equipment, since listening tastes vary by tens of dB whereas most other variables affect your system by only a few dB. Table I obviously is intended to help you come up with a figure for the maximum sound pressures you want from your system. For the sake of argument, let's say you choose a "fairly loud" level of 85 dB as your maximum.

The next step takes us to Table II, and that brings us to a brief discussion of room acoustics. Few readers will have "ideal" rooms, of optimum proportions and acoustic properties, measuring exactly one of the cubic-foot specifications in Table II. You must allow for the real nature of your room. Rooms with large doorways or similar openings into other areas will behave as though the room itself were larger and will therefore require more acoustic power for a given listening level. Normal-size doorways or small openings behave more like acoustic damping—draperies, for example—that contributes to the "deadness" of the room. These too will require more acoustic power, though the acoustic effect is not precisely the same.

Also, the table's "live" and "dead" figures presume rather extreme liveness and deadness. Let's assume that your listening room has average acoustics, is 11 by 20 feet in floor area, has a slanting ceiling whose average height is 9 feet, and at one side has a large archway leading to another room. The room itself measures close to 2,000 cubic feet in volume, but you can allow another 500 cubic feet for that archway. This means that you will have to use figures halfway between those shown for a room of 2,000 cubic feet and those for one of 3,000 cubic feet.

You look up your listening level (85 dB SPL) at the left. Then read off 90 dB for 2,000 cubic feet and 92 dB for 3,000 cubic feet. You would need a speaker capable of delivering (in the anechoic chamber) a sound pressure level halfway between these two figures (or 91 dB) to get your 85-dB listening level. Then you remember plans for redecorating (including wall-to-wall carpeting) and wonder whether this allowance will be adequate. Noting that the figures for a very dead room are 2 dB higher than those for an average one, you decide to allow 1 dB more in case the redecorating should result in a significantly deader acoustic. So 92 dB is the figure we will be working with. The speaker must deliver 92 dB in the anechoic chamber if it is to deliver listening levels of approximately 85 dB in your room.

The next question is whether the speakers will handle 92 dB adequately. (Almost all will.) As you check the test reports on possible speakers, keep this in mind, looking as well for the sensitivity rating of the speakers. Let's say you decide on one that will not overload until it is driven to 105 dB (representing plenty of headroom) and find that it will deliver 84 dB with a 1-watt (0 dBW) input. That acoustic level is 8 dB below the 92 dB that you have determined you will need (for a listening level of 85 dB), and hence you must be prepared to drive it with an amplifier capable of delivering at least 8 dB more power output than the 1 watt used in the sensitivity test. Since 8 dB above 1 watt works out to 6.3 watts (again, see the following article) you know that any decent amplifier will do.

Since we have assumed only moderate acoustic demands in this example, let's suppose that you now decide you had better be prepared, on occasion, to drive the whole system 10 dB harder (subjectively, "twice as loud") to listening levels of 95 dB to impress your friends. Now the speaker would have to reach levels of 102 dB in the anechoic chamber. The test report's continuous-tone figure shows that it can do so with equanimity. So you go on to compute the necessary amplifier power. You would now need 18 dB above the 1-watt test level, or 63 watts—a big jump (remember that 10 dB, in power, always represents a factor of 10), but one that many amplifiers and receivers these days can handle.

This last example makes plain how useless normal "minimum power requirement" ratings for speakers really are. For our imaginary speaker the manufacturer might claim that 20 watts is sufficient. That would give you listening levels of 90 dB in your room—perfectly adequate for the majority of purchasers, but well short of your requirements if you want showoff levels of 95 dB.

As you go through the steps outlined above, from choice of loudness to choice of speaker to choice of amplifier, remember that the tables are designed to offer useful information rather than inflexibly "scientific" data. Differences in speaker performance and placement, among many other factors, can influence precise results. I have said that we generalize about loudspeakers at our peril; the data in the tables are generalizations. They will help to explain the concepts involved; more important—always keeping in mind that as generalizations they are subject to the (relatively small) "allowances" by which the specific invariably differs from the ideal—they can be used as a practical way of making choices.
Meet the dBW

A Significant New Tool to Help You Understand and Choose High Fidelity Components

For years we have sighed sympathetically over readers' letters, which prove overwhelmingly how easily the average component purchaser can be confused by wattage references—particularly where it's a question of feeding watts into a loudspeaker and getting out decibels—and have wished that there were an acceptable alternative way of specifying amplifier power and related quantities. Explanations, however often repeated, have a way of slipping through the sieve of memory and allowing old misconceptions to resurface. And new readers, exposed for the first time to the details of this subject, must try to cope without benefit of past explanations.

The arithmetic nature of the wattage scale itself is the primary stumbling block. Audio-like just about every-thing to do with our sensory perceptions-behaves in logarithmic ways, and that is why the inherently logarithmic scale of the decibel has such wide currency for quantifying sound properties. The failure to think logarithmically about power leads to such anomalies as talking of one amplifier as delivering, say, 20 watts more than another. If the output power of amp A is rated at 10 watts, the capability of amp B, at 30 watts, happens to be just under 5 dB greater; if A's rating is 100 watts, B's 120-watt output is less than 1 dB greater. To the prospective purchaser, "20 watts more" sounds like a useful absolute. On the contrary, it is merely misleading.

We were therefore struck by a suggestion of audio engineer Edward J. Foster, whose byline appears frequently in these pages: Why not use a dB power scale? Of course, any dB scale must be referred to something—its 0-dB level—if it is to have meaning. Well, for clarity and simplicity, how about 1 watt? In that case, we might call our power unit the dBW, meaning a scale in dB with its zero reference at 1 watt.*

In discussing power, an increase of 10 dB always represents ten times the wattage (or one order of magnitude, in scientific jargon). Thus, referring to the table, 16 dBW is 10 dB greater than 6 dBW (40 watts vs. 4 watts) and 26 dBW, another 10 dB, is ten times more powerful yet (400 watts). Also, a difference of 3 dB represents a doubling or halving of wattages. So 6 dBW is 3 dB less than 9 dBW (4 watts is half of 8 watts), while 27 dBW is 3 dB greater than 24 dBW (500 watts is twice 250 watts). Since power bandwidth classically is defined in terms of the amplifier's "half power" or "minus-3-dB" points (that is, the frequencies at which the amplifier can be driven to only half its rated wattage before reaching rated distortion) the power bandwidth of an amplifier rated at 21 dBW (125 watts) is measured between those points at which it can achieve only 18 dBW (63 watts), and beginning immediately we will show power bandwidth in terms of both dBW and watts. And our har-

*The term dBm also is used to express power measurements but, since it is referred to 1 milliwatt as its "zero," is more awkward to use for the purposes we had in mind.

<table>
<thead>
<tr>
<th>WATTS</th>
<th>dBW</th>
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<tbody>
<tr>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>1.25</td>
<td>1</td>
</tr>
<tr>
<td>1.6</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>2.5</td>
<td>4</td>
</tr>
<tr>
<td>3.2</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>6.3</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
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<tr>
<td>12.5</td>
<td>11</td>
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<tr>
<td>16</td>
<td>12</td>
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<td>20</td>
<td>13</td>
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<td>16</td>
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<td>50</td>
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<td>63</td>
<td>18</td>
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<td>80</td>
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<td>100</td>
<td>20</td>
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<td>125</td>
<td>21</td>
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<td>160</td>
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<td>200</td>
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<td>250</td>
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<td>400</td>
<td>26</td>
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<tr>
<td>500</td>
<td>27</td>
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<tr>
<td>630</td>
<td>28</td>
</tr>
<tr>
<td>800</td>
<td>29</td>
</tr>
<tr>
<td>1,000</td>
<td>30</td>
</tr>
</tbody>
</table>
monic distortion graphs for amplifiers—which always are measured at rated power, half power (3 dB lower), and 1% of (20 dB below) rated power—will show the three sets of curves in both dBW and watts. Thus the full-power curves of what the manufacturer calls a 50-watt amplifier will be made at 17 dBW (50 watts), 14 dBW (25 watts), and -3 dBW (0.5 watts). Intermodulation curves likewise will show the power scale in both dBW and watts. The point of these changes is not so much to clarify the distortion numbers themselves as to put them in a more useful perspective—one free of the misleading implications of the conventional wattage scale.

The virtues of this system really begin to emerge when we come to discuss noise. In past reports we have measured noise as so many dB below rated output: for example, 73 dB below rated output of 100 watts. This means that if you are driving the amplifier to its full output on the peaks, the total dynamic range will be 73 dB. But what if you turn down the volume? The dBW system answers this question. A 20-DBW (100-watt) amp with noise at -53 dBW (73 dB below 100 watts)—which, incidentally, is the equivalent of -23 dBm or 0.005 milliwatts—will theoretically continue to exhibit noise at -53 dBW no matter what level it is driven to. (Of course, if some of the noise is generated ahead of the volume control, it will be reduced as the level is cut back from the “wide open” condition under which it is measured for us at CBS Technology Center; the -53 dBW measurement remains, therefore, worst-case.) So if we reduce the level until we are driving the amplifier to only 7 dBW (5 watts), the difference between signal (7 dBW) and noise (-53 dBW) is (again, worst-case) 60 dB. In other words, even at only 5 watts this superamp manages an effective dynamic range of 60 dB—something not easily ascertained from conventionally expressed figures but available at a glance once both signal and noise values are expressed in dBW. And considering the number of superamps on the market and the frequency with which they are used at “idling” levels for normal entertainment (as opposed to blockbuster demonstrations), this is important information. Our theoretical amp would have a dynamic range of only 50 dB when driven at background-music levels of 0 dBW (1 watt); some superamps, it appears, can’t do even this well under such circumstances.

The levels at which you actually drive your amplifier depend in part on the efficiency of your loudspeakers, of course. (See the article, by Norman Eisenberg, that preceded this one for a discussion of the factors that affect loudspeaker “loudness” and how to calculate them in setting up a component system.) And, effective with this issue, we have made a change in our way of reporting this parameter so that it can be used more directly with the dBW scale. In the past, the data have been given for the chosen speaker produces 84 dB for a 0-DBW (1-watt) input; so you will need at least 8 dB more, or 8 dBW (0.5 watts), in the driving amplifier. If you then decide to allow for “showoff” levels to 95 dB (10 dB more than you originally had planned for), you would simply increase all the figures by 10 dB, giving an amplifier requirement of at least 18 dBW (63 watts). If the manufacturer (accurately) rates his amplifier at 80 watts (19 dBW) with a signal-to-noise ratio of 77 dB, the noise level is at -58 dBW (77 dB below full output of 19 dBW) and the effective S/N ratio will be 76 dB at the “showoff” level of 18 dBW (63 watts), 60 dB at the normal full-listening level of 8 dBW (6.3 watts), and the DB at the background music level of 0 dBW (1 watt).

We believe that the ease with which these calculations can be made will do a lot to help our readers choose speakers and amplifiers that really do work well together in their listening rooms. We hope that manufacturers, too, will adopt dBW ratings. We have broached the subject with a few of them already, and the comments have been unanimously positive. One major manufacturer has indicated it is considering adding dBW figures to its specifications so that potential customers will be able to make the easy comparisons that the dBW uniquely allows. If others follow, the always-confusing job of component shopping will be more forthright than ever before.

<table>
<thead>
<tr>
<th>WATTS for 94-dB output</th>
<th>dB (SPL) for 0-dBW (1-watt) input</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.8</td>
<td>95</td>
</tr>
<tr>
<td>1</td>
<td>94</td>
</tr>
<tr>
<td>1.25</td>
<td>93</td>
</tr>
<tr>
<td>1.6</td>
<td>92</td>
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<tr>
<td>2</td>
<td>91</td>
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<td>2.5</td>
<td>90</td>
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<td>3.2</td>
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<td>4</td>
<td>88</td>
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<td>5</td>
<td>87</td>
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<td>6.3</td>
<td>86</td>
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<td>85</td>
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<td>84</td>
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<tr>
<td>12.5</td>
<td>83</td>
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<td>16</td>
<td>82</td>
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<td>20</td>
<td>81</td>
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<td>25</td>
<td>80</td>
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<tr>
<td>32</td>
<td>79</td>
</tr>
<tr>
<td>40</td>
<td>78</td>
</tr>
</tbody>
</table>

response devised by the mind of man—which, after all, is where this electronically synthesized piece came from. On a good system the sound loudspeakers make the music you want to hear sound the way you want it to. No one knows your ears as intimately as you do.
Dear Len,

The food here is not bad, though it took some getting used to. Thanks for the record albums. I do appreciate them, although the nurses say they have orders not to let me near any sound equipment until I "have calmed down a little." Actually, I am very calm. (That may be the little blue pills.)

Thanks also for your offer to get me sprung. I think they will release me soon anyhow. Unfortunately, the Euphonia Corporation has asked for my resignation, and of course I will comply. However, I want to explain my position, so you can see for yourself that this whole sorry mess is simply a mistake. In the first place, it goes without saying that my new speaker project is kaput. The fact that my design became known as the Great A&P loudspeaker was due to some confusion at the corporate publicity office. When I first hit upon the idea for the (revolutionary!) speaker, I was on what they call a much-needed vacation and had no drafting paper, so I did my initial drawing on an old grocery bag. I enclose a copy.

You can readily see how this was misinterpreted. The real name—the Mach I Eureka Vacuum Speaker—should be obvious from the fact that I use a vacuum inside the cabinet to suspend the cone perfectly in place. You can see that it is a spectacular concept. The excursion of this speaker cone is theoretically perfect. My reasoning is this: Because of the vacuum, the negative pressure on the rear of the cone is uniform over its entire surface, and we thereby eliminate forever the problems of nonuniform vibration. Also, there is virtually no inertia in this speaker cone. Talk about damping! Once you get it to move forward, it will snap back to its starting point in nano-nanoseconds, distortion-free, because there is zero tendency for the cone to keep vibrating. There is also zero tendency for the cone to vibrate at all, so we did have some problems with design details.

Maybe I was wrong to assign the whole Euphonia Research
and Development team to 'round-the-clock work on the project. But it just goes to show you that the spirit of true innovation has fled our industry. Edison had detail problems with "Mary Had a Little Lamb," did he not? Anyhow, the board of directors was pretty teed off. The main problem, of course, is that vacuum. It sucks the speaker cone in so tight, it's difficult to get it to make a forward excursion. In fact it won't budge.

Best wishes to all the gang, and don't worry about me. I can take it.

Keeping sound in mind,

Date

Dear Mr. Marcus:

Your concern for our patient George "Tweeter" Pulsifer is understandable. I am well aware of his reputation as a designer, and as a matter of fact I have personally used his well-known Mach I Non-Gravitational speaker systems in my own home for some time. However, the prognosis for Mr. Pulsifer is an open question. I would not exactly describe him as a burned-out case, but his progress so far has been, in a word, downhill.

From our analysis sessions I understand that his overriding concern for many years has been to develop a perfect loudspeaker, and his inability to compromise, to "face reality," is certainly at the heart of the problem. In Freudian terms, the vacuum he so fervently wants to incorporate in his latest speaker design may symbolize (to him) some event in his past, such as an unhappy love
affair. But this is conjecture. He spends most of his occupational therapy class modeling speaker cabinets from clay and making sketches for new speaker designs. We have given him some graph paper, as it seems to make him feel more at home.

He now tells me he may have solved the problem of moving his Mach I Eureka speaker cone out of its vacuum and has produced the enclosed sketch. Frankly, I am not qualified to judge its validity as a workable design, so I would be grateful if you could comment on it from that point of view. It would help me in my analysis of Mr. Pulsifer's condition.

Sincerely,

Dr. Endicott Graywacke
Attending Physician

Encl: 1 drawing

---

SIR,

OILED WALNUT CABINET

THE MACH I
"PLUMBER'S HELPER"

(SIDE ELEVATION)

VACUUM CHAMBER

SPIFFY VISTA REST HOME

12110746 Offshore-Drilling Blvd.
San Diego, California 92115

Mr. Leonard Marcus
High Fidelity Magazine
Great Barrington, Massachusetts 01230

Dear Mr. Marcus:

I have your most recent letter, and I am sorry to hear that. Yes, I will try to keep you informed. We have had to take away his graph paper.

Sincerely,

Dr. Endicott Graywacke
Attending Physician
Dear Mr. Marcus:

As I promised, here is Mr. Pulsifer's latest "design effort." At our last analysis session, we discussed its possible symbolism at some length, but he insists it is simply a loudspeaker design and not an attempt to return to the womb. I am not so sure. At any rate, the "design philosophy," as he puts it, is based on the fact that the interface between air and water is a poor transmitter of sound. As I understand it, a noise occurring under water will not penetrate the air above the water. This, Mr. Pulsifer believes, is the key to designing a perfectly nonresonant speaker cabinet. It has to be mounted in the floor.

Your comments in this matter have been very helpful. I hope you will continue our correspondence.

Sincerely,

[Signature]

Dr. Endicott Graywacke
Attending Physician
Dear Len,

Things are going well, except now they have taken away my T-square. I hit upon a way of making loudspeaker models during basket-weaving therapy and have been thinking more and more about bionic design theory. After all, the invention of radar merely imitates the navigation system of the common bat. The Japanese have made a TV camera lens designed like the compound eye of a housefly. But I ask you, how much bionic research is being done on vegetables? Think of it! A world of untapped ideas.... In nature's grand design there must be a good loudspeaker lurking somewhere. There is much to learn.

Could you see your way clear to sending me a book on mushrooms?

Hard at work,

[Signature]

SPIFFY VISTA REST HOME

Mr. Leonard Marcus
High Fidelity Magazine
Great Barrington, Massachusetts 01230

Dear Mr. Marcus:

I'm afraid it is all over. We found Mr. Pulsifer eating funny mushrooms that he picked on the exercise lawn. Since that day he smiles a lot but has refused to talk during our analysis sessions. His last drawing, executed on a matchbook cover, is enclosed. We have had to assign him to a padded guest room, and, from the remarks he makes to himself while leaping about, I take it he believes himself to be inside a speaker cabinet. Perhaps this is the ultimate womb for him. He frequently thumps the padding on the walls, saying such things as, "We need a couple more inches of fiberglass here." Occasionally he butts the padding with his head and laughs, complimenting the room on its "damping characteristics." Reluctantly, I must conclude that a great high fidelity mind is here o'erthrown. But for the perfectionist, there is often no other destination.

Sincerely,

[Signature]

Dr. Endicott Graywacke
Attending Physician

Encl: 1 matchbook cover
He might have been a well-connected corporate lawyer if his father had had his way. Or a radical New England minister, had he emulated the combative intellectual piety of his cousin Henry Sloane Coffin. So how is it that John Hammond, at sixty-five, can look back on what undoubtedly must be one of the most incredible nonperforming careers in the history of the recording industry?

Lest there be readers who are not familiar with this celebrated name, here are a few facts. For seventeen years Hammond was director of talent acquisition and vice president of Columbia Records. In December 1974 he "retired" and assumed the title of consultant, but the official change had little impact on his routine. Right up to the present, as head of his own Snuf Music Corporation (releasing through Columbia), he continues to seek new talent, produce records, help pick material, set up studio time, supervise sessions, and oversee final production details.

Over the decades he has accumulated a discography of personal discoveries that surely constitutes a national cultural treasure: Billie Holiday, Count Basie, Lester Young, Charlie Christian, Benny Carter, Bob Dylan, Aretha Franklin, Bruce Springsteen, and many others—all recorded first by John Hammond. Add to these names the rediscoveries, the great reputations he rescued from artistic oblivion: Bessie Smith, Fletcher Henderson, Pete Seeger, Albert Ammons, Mildred Bailey, Big Bill Broonzy, and Eubie Blake.

And, as if that were not enough, there is Benny Goodman, who had settled into the steady and secure routine of studio work when Hammond approached him in the old Onyx Club in 1933 with an opportunity to once again make jazz recordings. Hammond became a key figure in the formative years of the Goodman band, bringing into the organization the likes of Jess Stacy, Teddy Wilson, and Gene Krupa. Goodman readily credits Hammond, too, with launching him on his distinguished career as a classical soloist. The Hammond discography would thus also include Joseph Szigeti and Bela Bartok (for Contrasts) and the Budapest String Quartet (for the Mozart clarinet quintet), with whom Goodman collaborated. (He also supervised Walter Gieseking's only recording sessions in the U.S.—the second book of Debussy's Preludes.) And when Goodman married Hammond's sister, Alice, in 1942, the two men became family as well as colleagues.

It's perhaps to his credit that Hammond seldom produced a conventional million-seller—many classics, but few hits. His disinterest in commercialism often earned him the wrath of Mildred Bailey, who felt that the small-group jazz accompaniments he imposed on her deprived her of a superhit. She was probably right, but as it happens she is still listened to twenty-five years after her death.

"For all he has done in promotion and helping all those great careers," says Count Basie, with more than a hint of surprise still in his voice, "he has never taken a dime. His payoff was to see his artists do well. He would sit down and listen to them and say, 'This is the house that I built.' But he never took a percentage or fee."

"John was never very commercially minded," Goodman agrees. "If he had been, he might be head of Columbia today. He has always been in

John McDonough is a critic for Down Beat magazine.

The Multiple Lives of John Hammond
Hammond recorded Billie Holiday (near right) in the Thirties and Aretha Franklin in the Sixties.

the business, but has avoided the business."

This is a good point. Hammond's career resumé just doesn't show the old "climb to the top" in the traditional corporation sense. He began in 1932 as American artists-and-repertoire chief for EMI's English Columbia and Parlophone labels; in 1934 he was musical director for Irving Mills; from 1935-38, a&r for the American Record Company (for which he recorded Billie Holiday's greatest work); from 1939-42, a&r for Columbia following its purchase by CBS (for which he recorded the early Count Basie bands and the classic Goodman sextets). After the war there was a brief return to Columbia, and then he went to Majestic Records; in 1947, to the bankrupt Keynote label, which he soon merged with Mercury; from 1953-58, he was with Vanguard, where he recorded the famous Jazz Showcase series; and then finally he returned to Columbia, where he recorded the first of Dylan and Franklin.

But, although Goodman's observation is correct, it is quite beside the point really, because Hammond has never marched to the rhythm of a formal career. The various jobs by which he has made his living over the years have been merely a consequence of his life's overriding interest, never a condition of it. It's one of the privileges of being a fifth-generation Vanderbilt. This aloofness has given him a paternally philosophical point of view toward the music business and its various tribal wars. The profit motive may have driven great-great-grandfather Commodore Cornelius Vanderbilt, but the aggregate of Hammond's long career has been incalculable prestige, not profit.

It's a measure of Hammond and, perhaps, of his patrician upbringing that he has rarely been prey to the whims of fashion, be they intellectual, musical, or sartorial. He knows who he is, where he belongs, and what he's about. It's this elementary self-knowledge that makes John Hammond a true man of style.

Consider a trifling but revealing example. Through the years hair has provided a useful and usually changing index as to where a person's head is at, or at least where he'd like others to think it's at. Hammond chopped his hair down to a bristly crew cut when he was seventeen, and there it has stayed without apology for forty-five unbroken years.

"Either you're yourself, or you're not," he declares. "People switch images when they're not secure about their taste and judgment. I may be terribly wrong about my taste and judgment, but I'm awfully sure about them."

John began the process of sorting the important from the unimportant when he attended Hotchkiss School in Lakeville, Connecticut (class of '29). He had already developed a voracious appetite for jazz via hard-to-get records distributed mainly in the rural Black Belt of the South and occasionally in Harlem. He would travel from Lakeville for his viola lessons in New York. His route took him to the better Harlem record stores and past the Alhambra Theater on Seventh Avenue, where he first saw Bessie Smith in 1927. Six years later, as a green a&r man, he took Bessie back into Columbia's studios with the then unknown Benny Goodman for what was the last record date of her life.

As his musical taste matured, so did his convictions on the racism he observed. He got to know club owners and performers on a backstage basis. During two subsequent years at Yale, he began acting as American correspondent for England's Gramophone magazine and, soon after, Melody Maker. He covered Harlem regularly, reviewing musicians whom the white press never heard of. Though a teetotaler, a nonsmoker, and a virgin, he managed to develop a close rapport with his beat. He visited in performers' homes and drew close to their style and traditions. And as he did, a distressing thought struck him: He could mingle with blacks on their own territory, but he couldn't have them as his guests in the better downtown places.

His sprouting social conscience also took root in the old-line radical soil of Yankee New England, where antislavery sentiment had first taken hold in America. At Hotchkiss he read The Nation, New Republic, and even New Masses, an intellectual organ of the American Communist party. Although he put in his mandatory appearances at chapel, he also studied with John McChesney, who started a Sunday philosophy class "to undo the damage done by the chapel sermons."

His growing spunkiness brought him into closer contact with his maverick cousin, Henry Coffin (uncle of former Yale chaplain William Sloane Coffin). Henry was the head of Union Theological Seminary, a pacifist during World War I, and the
The late Senator Ernest Gruening (shown in 1969) was one of Hammond’s mentors.

major factor in desegregating the Protestant Church in the Twenties. They worked together on a feisty little magazine called Protestant Digest, which attacked anti-Semitism “in all its forms, including Francis Cardinal Spellman.” Hammond says, “Coffin was one of the two great influences on my intellectual life.”

The other great influence was the late Sen. Ernest Gruening of Alaska (Hotchkiss ’03), who in the late Twenties, as editor of the Portland (Maine) Evening News, was going after Samuel Insull and the power trusts. Hammond joined the News while still at Hotchkiss. “I learned more than I can ever acknowledge about journalism, the civil rights movement, and trade unionism from Ernest Gruening,” he says.

Gruening’s sister Martha, a founder of the NAACP, helped bring intellectual shape to the moral outrage Hammond felt over the race situation. At meetings of the Ethical Culture Society, leading liberal intellectuals from New England gathered to exchange ideas. Here Hammond met the most articulate black leadership in the U.S.—James Weldon Johnson and Walter White, who preceded Roy Wilkins as NAACP executive secretary. In 1933 Gruening, then the editor of The Nation, dispatched his protégé to Alabama to cover the Scottsboro trial. In 1936 Hammond joined the board and executive committee of the NAACP and for thirty years helped push the organization—sometimes against its cautious will—from the separate-but-equal traditions of the Nineties and into the modern era of black protest. In 1966, still just as impatient as ever, he resigned, fed up with the “right wing” leadership of Wilkins, who, he felt, had made himself “a patsy for Lyndon Johnson on the war issue.”

Following his departure from Yale in 1932, Hammond roamed around the country listening to music. Although his father had tried to convince him that radio would kill the record industry—certainly not an unreasonable warning then, with most of the record companies in bankruptcy—Hammond had enough money from trust funds to get away with it. After hearing some remote broadcasts that he managed to pull in on his car radio in Chicago, he drove to Kansas City to find their source. What he found was a loosely disciplined band of musicians held together by Count Basie and including drummer Jo Jones and Lester Young on tenor sax. Based on a tip from Mary Lou Williams, he set out for Oklahoma City in 1939 and returned bearing the most brilliant guitarist jazz has produced: Charlie Christian. In Chicago he discovered pianist Jimmy Yancey working as groundskeeper at Comisky Park and Meade Lux Lewis in a carwash. And there were countless side trips—many dead ends.

He did a lot of writing as well—the Brooklyn Eagle, the Chicago Daily News. In 1935, for the fledgling Down Beat magazine, he covered Goodman’s new band as it toured America and came finally to Chicago’s Congress Hotel. He published the first national dispatches from the Reno Club in Kansas City, where Count Basie was on the thresh-

This photograph, taken in 1941 in a Harlem nightclub, found Hammond (left, with cigarette) in his milieu. To his left, reaching for the bottle, is Earl “Fatha” Hines; at the rear of the table, with glasses, is jazz guitarist Charlie Christian; opposite him, with turban, is singer Helen Humes. At right, Benny Goodman watches the birdie, and Count Basie watches Hammond.

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old of changing the character of big-band jazz.

He also wrote on music and labor for The New Masses, which cosponsored with him the original Spirituals to Swing concert. Though Communist, the radical magazine provided a congenial, if doctrinaire, platform for Hammond’s views; that is, until he began attacking race discrimination in the unions, namely Local 802 of the Musicians Union in New York. American Communists, seeing a separate proletariat nation with radical potential, aggressively courted black support in the early Thirties. But in the mid-Thirties, Stalin decided the time had come to make common cause with liberals in the Western democracies against fascism. So during the Popular Front years, Communists turned into pussycats on the race question.

“The Communist caucus in 802 was absolutely reactionary,” says Hammond. “They preached about higher wage scales in Harlem but did nothing to break black exclusion from radio, theaters, class A nightclubs, and any decent job in New York. The union had been ‘integrated’ since 1923, but the effect was simply to see that blacks worked the Savoy and not Roseland.”

In 1942 he began a campaign to integrate the radio orchestras. CBS quickly came through and hired, in one fell swoop, six of the finest black musicians in New York, including Cozy Cole, Emmett Berry, Teddy Wilson, and John Simmons. “Then [there was] trouble with the Chesterfield Hour, when the sponsors—mostly southerners—forced the network to drop them,” Hammond recalls. “So I went to the last decent secretary we had in 802, Willie Feinberg, and told him it was immoral and disgraceful. These men were members of 802 and deserved its protection. We couldn’t let the sponsor get away with this, and we finally won out. It was the first integrated orchestra on a straight sponsored network show.”

Since he rejoined Columbia in 1958, the battles he has waged have always seemed to reflect his values with unusual accuracy. Although he miraculously escaped the direct attention of the witchhunters during the infamous McCarthy years, he has had no reluctance to challenge their malevolent influence. His determination to sign Pete See-ger to Columbia while he was still blacklisted by CBS is a case in point. The fact that Seeger finally was signed, Hammond is convinced, paved the way for his signing of Bob Dylan, who otherwise would have gone to Vanguard.

Hammond prefers to say nice things about people, but he speaks with a frankness that spares no one. On Bud Powell: “I despise his piano playing.” On Stan Kenton: “He must have had the worst band of all time. So pretentious! Such lack of swing!” On Al Cohn: “A complete mediocrity.” On Lennie Tristano: “An abomination. I had to record him in 1947. . . . Very painful for both of us.” On the New York Rock Ensemble: “Dreadful.” On Miles Davis: “I really can’t see what he’s trying to prove except that he can make a buck, which of course he’s entitled to do.” On Count Basie in the late Fifties: “The band stinks—and Basie thinks so too.”

“He has certainly been my severest critic,” the portly pianist from Red Bank admits, “but one of my greatest friends. His opinions have never short-circuited that friendship.”

The late novelist Richard Gehman once reminded Hammond of a report that he had read a newspaper during part of pianist Hazel Scott’s performance at Cafe Society in the Village. He admitted to such discourteies, but said that it must have been Mary Lou Williams: “I know it wasn’t Hazel Scott. When she was playing, I read my newspaper all the time.”

“If he weren’t so likable,” drummer George Wettling once suggested, “he’d be positively unbearable.”

He is currently working on his autobiography, to be published by Macmillan. Though he has not spelled out details, he asserts that the book will be no less frank than usual.

Hammond’s impact on contemporary music continues, although, as always, through the back door. He locates the forces that shape the tastes of the elite, who in turn influence the mass merchandisers, who in turn dictate popular fancy. Just as his classic recordings of authentic boogie-woogie in the late Thirties culminated in the craze led by the Andrews Sisters and Will Bradley, his rediscovery and promotion of Eubie Blake in 1970 merged with the growing Nonesuch catalogue to provide the impetus from which Marvin Hamlish made ragtime a national sensation.

Superstardom is not Hammond’s criterion for success, and certainly many of his pets have fallen short of commercial fame and fortune—Ruby Braff, John Handy, Ray Bryant, Mel Powell, Bobby Henderson, Helen Humes. The story of Bill Watrous, his latest, is just beginning. But whatever the commercial destiny of his protégés has been, each has had something that engaged Hammond. And that encompasses them in a very special circle of excellence. That’s what John Hammond is really about.
A Hammond Retrospective on Discs

"John Hammond's contribution to the history of jazz and blues has been monumental." Thus Columbia Records announced the "John Hammond Collection," one of the most distinguished reissue series of the decade. Below are listed albums from that series, as well as others. For music that is enduring and brilliant, we may thank the artists. For the fact that it was recorded and preserved, we may thank John Hammond.

The original "Spirituals to Swing" concerts remain among the greatest concert recordings in the annals of jazz. Several studio-made cuts are included in the guise of live performances, but as a result virtually every important Hammond discovery of the era is heard here. The 1967 concert, despite a butchered editing job, has lots of power as well as the finest Joe Turner and Big Mama Thornton sides ever recorded.

Benny Goodman: The Early Years, Vol. 2. Sunbeam SB 139.
Benny Goodman and the Giants of Swing. Prestige PR 7644.
Hammond recorded Goodman's most important jazz sessions between '33 and '35, heard virtually complete on the Sunbeams and the Prestige. The Christian and Bartók albums are unrivaled classics.

The Big Bands, 1933. Prestige PR 7645.
Fletcher Henderson made his most notable recordings in 1932-33 under Hammond, including the original "Talk of the Town" with Coleman Hawkins.

Young Lester Young. French CBS 65394.
The first of the five two-disc sets of the great Basie-Young recordings of 1936-42 will be reissued this month, with the others to follow at two-month intervals, but these two Columbia and CBS albums contain many rare treasures. The "On the Air" LP features two Hammond-commissioned air checks of prime early Basie.

Aretha Franklin: The First 12 Sides. Columbia KC 31953.
Aretha Franklin: In the Beginning. Columbia KG 31355.
Helen Humes: Talk of the Town. Columbia PC 33488.

Hammond put many female vocalists on disc, including Patti Page, but these certainly constitute his Big Four. Holiday and Franklin made their first recordings for him. Humes' LP was recorded in February 1975, although Hammond first brought her to Count Basie in 1936.

Jimmy Rushing: Listen to the Blues. Vanguard Everyman SRV 73007.
Hammond's interest in basic blues forms has led to the preservation of some of the best rural and urban blues performances ever. The Bessie Smith LP has her last, and most jazz-influenced, performances. After being recorded by Hammond's American Record Company, Johnson was being sought for the "Spirituals to Swing" concerts when it was discovered he had been poisoned by a girl friend. The Rushing LP is from Hammond's great Fifties Vanguard series.

Bob Dylan. Columbia KCS 8579.
Bob Dylan: Freewheelin'. Columbia KCS 8796.
Aside from the Beatles, no performer caught the restless radicalism of the Sixties with greater impact than Dylan, whom Hammond first recorded in November 1961.

Red Norvo and His All-Stars. Epic EE 22009.
Swing Classics. Prestige PR 7646.
Harry James and His Orchestra, 1936-38 (due for release on Columbia in September).

Benny Carter, 1933. Prestige PR 7643.
86 Years of Eubie Blake. Columbia C 2S 847.
Teddy Wilson and His All-Stars. Columbia KG 31617.
Hammond recorded the first real chamber jazz with Red Norvo and what may still be the finest of Harry James' discs. He also captured the first Benny Carter band with Chu Berry and Teddy Wilson, as well as countless of Wilson's small groups in the late Thirties and the classic boogie-woogie sessions of that same period. Bill Watrous, an extraordinary trombonist, made an impressive debut under Hammond last year.

Bruce Springsteen: Greetings from Asbury Park. Columbia KC 31903.
Bruce Springsteen: Born to Run. Columbia PC 33795.
There is a poetic strain to Hammond's preferences. Springsteen, whom Hammond signed in 1972, is the latest example. The "Asbury" LP, where he sings absorbing lyrics against his own acoustic guitar, got him labeled the "new Dylan" when the old one was still going strong. In "Born to Run" he went rock and was an overnight sensation. J. M.
At long last Louise. Late in January, CBS produced the first stereo recording of Charpentier's Louise at EMI's London studios with Ilana Carnavas in the title role, Placido Domingo (in London for Cav and Pag at Covent Garden) as Julien, Jane Berbié and Gabriel Bacquier as Louise's parents, and what sounded like a cast of thousands. Georges Prêtre was conducting the New Philharmonia.

Producer Paul Myers preferred to secure more Louise sessions as nearly in sequence as logistically feasible. He produced the Boulez Pelléas et Mélisande that way, and more recently the sense of continuity in the CBS Navarraise no doubt had something to do with that recording philosophy, which will presumably be applied to CBS's growing operatic output.

Music Editor Kenneth Furie was delighted to arrive in time for the session for the opening of Act III, which began with Cotrubas working on "Depuis le jour" and continued with Domingo joining in an ardent scene that wasn't quite completed. It was to be finished the following evening, when the chorus would be on hand for the ensuing scene, but when European Editor Edward Greenfield arrived for that session he learned that Domingo had sent word that his throat was giving him trouble. Myers took advantage of the chorus' presence to record the Act II scene at the dressmaker's shop where Louise works. Domingo was back the next day, and work proceeded more or less on schedule for this inordinately complex project.

The score requires an exotic array of percussion instruments and specified off-stage sound effects, including a sewing machine, which arrived just in the nick of time for the Act II shop scene. To facilitate the effects, a prefabricated summer house was erected in a corner of the studio. The little house, Greenfield reports, looked curiously domestic, complete with old-fashioned hat stands in the corners.

And more to come. Among the operas to be recorded in the near future by CBS is Bartók's Bluebeard's Castle with Tatiana Troyanos and Siegmund Nimsgern, Pierre Boulez conducting the BBC Symphony. Farther ahead is Gianni Schicchi with Tito Gobbi in the title role, Placido Domingo (in London for Cav and Pag at Covent Garden) as Julien, Jane Berbié and Gabriel Bacquier as Louise's parents, and what sounded like a cast of thousands. Georges Prêtre was conducting the New Philharmonia.

Berman's Beethoven. The recent U.S. debut tour of the "legendary" Russian pianist Lazar Berman, introduced to H.F. readers at length in the January issue, can be fairly called "triumphant." Berman's current recordings from Columbia/Melodiya and Deutsche Grammophon—of works by Liszt, Tchaikovsky, Prokofiev, and Rachmaninoff—were reviewed in May. During the U.S. tour Columbia got Berman into its New York studios for his first American record of rather different repertory: a pair of Beethoven sonatas—the Appasionata and Op. 31, No. 3.

He recorded the latter work on Thursday, February 19, and the Appasionata the following day, just two days before his trip back to Russia. The producer of the sessions was Steve Epstein. ("Epstein? Epstein?" exclaimed the Soviet Jewish pianist, when he was first introduced to the young man after his Sheffield, Massachusetts, concert.) Columbia had asked Professor Boris Schwarz of the Queens College music department to act as translator between Berman and his co-workers.

Berman proved to be, as our January report on his Moscow session implied, averse to patching. The first movement of Op. 31, No. 3 had only one insert, although he played the entire movement through a few times. In the Menuetto, the lack of sonority of an F in the middle of a B flat seventh chord was enough for him to record the whole movement again. But he was not against the tape editors splicing sections from among his long takes. At the end of the same movement, when one of the final E flats didn't sound full enough, Berman told Epstein, "You've got that on the other take."

One-man Eróica. "Unlike some of my pianist colleagues," the young Australian Roger Woodward told Edward Greenfield during his latest RCA sessions in London, "I have no desire to conduct. I only want to play the symphonic repertory on the piano!" He was in fact recording Beethoven's Eróica Symphony in Liszt's solo-piano arrangement; of course, as producer Ralph Mace pointed out, the finale has roots in a piano work, the Op. 35 Eróica Variations. As usual Woodward was recording basically in complete-movement takes, using a $24,000 Bosendorfer with its six extra bass notes; even when those notes are not used, the extra strings add resonance. Woodward's set of the complete Shostakovich preludes and fugues (reviewed last month) had just been released in the U.S., and during the Eróica sessions Woodward and Mace were delighted to learn that it had climbed into the U.S. classical charts.

English National Opera. Any opera company represented by a recorded Ring cycle has reason to be taken seriously, and the English National (formerly Sadler's Wells) Opera's credentials have been established rather impressively by its English-language performances for EMI of Rheingold and Siegfried, conducted by Reginald Goodall, reviewed in April by David Hamilton. (The Walkure was recorded in December for probable fall release, and Gotterdammerung will no doubt follow soon. There is also a possibility of a Meistersinger, the opera whose success led the then Sadler's Wells Opera to undertake the Ring.) E.N.O singers can now be heard on a disc of piano-attended operatic solos and ensembles, many of them unfamiliar (including several first recordings), produced by EMI (at no cost) for the English National Opera and Sadler's Wells Benevolent Fund. Many of the Ring principals are featured in familiar (though not always expected) repertory: Rita Hunter (Brunnhilde) in "Costa diva" from Norma, Alberto Remedios (Siegfried and Siegfried) in "Una furtiva lagrima" from L'Elsis d'amore!, Norman Bailey (Voiten and Gunther) in "O du mein holder Abendstern" from Tannhauser, Clifford Grant (Faun), and Hagen) in a most impressive "Infelice e tuo credevi" from Ernani. Josephine Barstow, who sang the title role in the E.N.O's recent Gotz Friedrich production of Salome, is heard in "Divinités du styx" from Gluck's Alesente.

The English price of the record is £1.50 (these days about $3.10), to which a bit should be added for mailing. It can be obtained from the Press Office of the English National Opera, London WC2N 4ES, England.

No Follies, thanks, RCA's original-cast recording of Pacific Overtures, the controversial Broadway musical that includes Stephen Sondheim's latest score, has materialized promptly—it was reviewed in May by Royal S. Brown. Which provides an occasion to correct a slip in our March report: While producer Tom Shepard was indeed involved in the Columbia and RCA recordings of Sondheim's Company and A Little Night Music, he points out that he had no connection whatever with Follies, which was re-recorded by Capitol.
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CIRCLE 19 ON READER-SERVICE CARD
Haydn: And Now the Operas

by Andrew Porter

Dorati's recording of La Fedeltà premiata whets the appetite for Philips' projected series.

Haydn's operas can no longer be called unknown. Most of them are in print. The tally of twentieth-century productions grows long; in the ordinary critical round, I have in the last decade seen eight of them—not counting the puppet operas—generally in two or three stagings. Bringing them to a still wider audience is Philips series of recordings: La Fedeltà premiata is to be followed by La vera costanza and Orlando Paladino and at least two more.

For some twenty years, Haydn's principal activity was directing the Esterházy opera troupe; from 1780 to 1790, he put on more than a thousand performances. He was in touch with all the latest developments. Scores poured in from all over Europe to be adapted to the talents of his company. But he himself was no born musical dramatist. Performances of and further acquaintance with his operas confirm what both received opinion and first encounters suggested: that the scores are a treasure house of richly worked, beautiful, interesting, and various music, but not surefire in the theater. Haydn could express character. He could convey emotion. He was a master of the operatic scene. He could even set action. In all his operas we can point to many excellently successful "operatic" features—but to hardly one of them that can be termed quite simply "a success" all
amusing idea and a lively piece. Haydn misses the but different music in a different tempo. It
the whole spiel again, addressed to her—same words
in the same kind of way. The Fedelto premiata li-
matic sense. When other men's librettos were
adapted for his use, they were invariably weakened
in the same kind of way. The Fedelto premiuta li-
bretto derives from L'Infedelta fede, which Cima-
rosa composed to open the Teatro del Fondo in
Naples in 1779. In one of Cimarosa's arias, the
philandering Count Perrucchetto endeavors to capti-
vate a fair lady by rattling off a list of his charms and
accomplishments; to his embarrassment, a former
conquest of his turns up, overhears, and is much an-
noyed. He attempts to pacify her by going through
the whole spiel again, addressed to her—same words
but different music in a different tempo. It is an
amusing idea and a lively piece. Haydn misses the
point by stopping after the passage in which the sec-
ond lady expresses her annoyance.
Cimarosa's aria is good comedy; Haydn's is far
more interesting music. He was trying to do some-
thing different, aiming at something that it took a
Mozart to achieve without becoming undramatic.
Haydn must have found the music of Cimarosa, An-
fossi, and the rest thin stuff; to their fluent, facile de-
vices he added richness of instrumental texture, den-
sity of musical incident, variation, development, and
purposive harmonic movement. That is why his op-
eras are so good to listen to.
The setting is the countryside near Cuma, west of
Naples, by the lake of Avernus. The main matter is,
as usual, amorous intrigue and misunderstanding,
but an element of danger is ever-present, since the
donkey of the action is the annual sacrifice of a pair
of faithful lovers to a monster. So love in Cuma—at
any rate, faithful love—is fraught with peril, and af-
fections are best concealed, especially since Diaria's
high priest Melibeo runs the rite as a sneaky attempt
to sacrifice an incompetent rival and win the girl he
wants for himself.
Nerina loves Lindoro, but he loves Celia, and she
loves Fileno, who loves her back (they are the faith-
ful lovers whose fidelity is rewarded). Count Perruc-
chotto makes love to every girl he meets, but Ama-
rantha (who is loved by Melibeo) is determined to
snare him and become a countess, and eventually
she does so. An elaborate plot, you see, though it
works out quite easily in performance. It is further
complicated by a raiding party of satyrs who carry
off Celia, a hunt in honor of Diana, and much arbi-
trary coming and going. The general sentiment of
each particular situation remains clear, and the char-
acters are consistently defined. Celia and Fileno are
the serious lovers, a pair like Constanze and Bel-
monte whose music speaks from the heart. Nerina is
a delightfully straightforward, spirited girl. Ama-
rantha is a fine comic creation, a local girl who has
spent some time in Capua and gives herself city airs.
Perrucchotto has a funny scene with a wild boar. To
effect the happy ending, Melibeo is killed. (Since
there are seven characters, excluding Diana ex mo-
china, a neat pairing would otherwise have been im-
possible.)

The overture became the splendid finale of Sym-
phony No. 73, La Chasse. Then Haydn seems to have
started with a determination to write short, direct
airs, for once, but soon yielded to his natural fertility
and expansiveness. The opening numbers are (by
Haydn's standards) a shade conventional—though
Fileno's entrance aria, "Dove, oh dio," is a remark-
able piece, serenely sad in its outer sections, with
some chromatic stabs at the center. In the eighth
number Haydn introduces his heroine: Above a mur-
mur of muted strings the flute steals out and Celia
sings "Placidi ruscelli." In the next air Fileno de-
clares simply, movingly, above an adagio heartbeat
accompaniment from slurred strings, alternating
with a presto. (There should be an alternation, but a
cruel cut removes the second adagio.) Then Ama-
rantha bursts out in a fine frenzy, "una furia sara per
fede," a splendid parody of the high heroic style. Celia's
subsequent "Deh soccorri un infelice" is a great aria.
Bassoon and first violins in octaves sing the lovely
theme; when the tempo changes to largo, there is an
astonishing high horn obligato. The first finale runs
to sixty-three pages of score and takes the whole of
Side 4 (lasting nearly twenty minutes). Animated and
delightful, it uses the seven soloists in all kinds of
textures and with varied kinds of choice accom-
paniments.

From Act II let me pick three pieces for special
praise. First, a powerful monologue for Fileno, part
accompanied recitative, part aria, with a line that
spans nearly two octaves from bass A. It begins as a
symphonic slow movement interrupted by dramatic
declamation. This is followed by Celia's great ac-
companied recitative and aria, "Ombra del cuore
bene," which Haydn later published as a solo cantata
for concert use. (As in his previous opera, L'Isola dis-
abitata, one character carves an epitaph, somewhat
prematurely; the other comes across it and laments.
These two numbers form the serious heart of the op-
era.) The finale is nearly as long and as animated and
effective as its predecessor. Act III is short: a melting
duet for the serious pair, Diana's recitative abolishing
the annual sacrifice, and a final chorus.
I shall probably be told that the opera was not re-
corded in anything like its proper sequence. Never-
theless, I get a strong impression that the cast began
operations not knowing the whole opera very well.
not realizing what sort of characters they were
meant to be playing or what sort of piece it is: Mau-
rizio Mazzieri gives very little character to the
scheming Melibeo, line after line of recitative that
could be pointed and amusing goes for nothing. He
sings the notes well enough. Frederica von Stade
quite misses the fun of Amanaranta's first entrance.
But by the time Amanaranta returns, Von Stade has got into
her skin, and her performance is one of the most en-
joyable in the set. The range is from B flat below the
staff to the A above it: The low B flat is rather weak,
but above the staff the tones ring brilliantly. How
beautifully this voice runs; how cogently she shapes
her phrases!
Next comes Lindoro, Luigi Alva, whose singing is
slight but neat, elegant, and winning. This is a small
part, made smaller by the omission of the aria that
should open Act II. Alan Titus, as Count Perruc-
chotto, again begins somewhat tamely. The first ex-
changes with Amanaranta, as he loses no time in an-
nouncing his title and she responds with an impressed gurgle, should be very funny; but the two of them—and also the dismayed Melibeo, who is watching the encounter—deliver the lines more like an eloquent lesson than as witty dialogue. In his later scenes, Titus has realized that his is a buffo role, and he makes more of it. Tonny Landy, the Fileno, sings his entrance aria very feebly indeed. He comes to life in the subsequent recitative and, fortunately, remains alive for the rest of the opera. This Danish tenor is new to me. (He sang in The Creation at the Washington Haydnfest last year.) He is not quite polished; sometimes he is accurate and elegant, sometimes impassioned, seldom both. But there is something very likeable in his timbre and his style.

From her first notes, Ileana Cotrubas is both decisive and characteristic as Nerina; this is a completely charming performance. The Celia, Lucia Valentini (now calling herself Valentini Terrani), has sung Isabella in L’Italiana at the Met, and, as I write, enthusiastic notices of her Cenerentola, with the Scala company at Covent Garden, reach me. In this set she displays a clean, cool, decisive, admirably schooled mezzo, very even and sure across a range from the A below the staff to the A above it. Her singing is accurate, stylish, and polished. (I feel like Beckmesser when expressing a wish that there was a shade more emotion in the timbre.) Finally there is Diana. In the original performance, Haydn’s Nerina doubled the role, and it might have been a nice historical touch to invite Cotrubas to do the same. Kari Lovaas has a good voice but is a trifle clumsy in her delivery of the phrases; her Italian sounds unidiomatic.

Antal Dorati conducts with the finesse of a Haydn specialist—as well he might, after having recorded all the symphonies. His tempos are unfailingly convincingly. His responses to the many miracles of texture in this score are keen. He enjoys such jokes as the belting bulls in Melibeo’s first aria but does not exaggerate them. The orchestral playing is neat and lively, the studio recording clean and bright, with the voices forward. The finales are dapper and delightful.

The edition used is unspecified. There are (to simplify things a little) essentially two versions of the score: the 1780 original, with a mezzo Celia, and a 1782 reworking for a soprano. H. C. Robbins Landon writes a note in the album booklet in which a recurrent “we” (“First, we had located . . . we also discovered”) certainly implies that it is his edition of the work, published by Universal Edition, that is used. But it is not his 1970 edition, at least as I heard it in Holland that year when two of Celia’s arias were in the higher keys and one in the original. It is something fuller and closer to the 1780 score. The main cuts I have already mentioned above. Recitative is also shortened, to an extent that would be unacceptable in the theater (since it is in the recitatives that the singers get their main chance to act) but matters less in a recording. All the available music in its various versions can be found in two volumes of the Haydn Complete Edition, edited by Gunter Thomas and published in 1968.

Any version is likely to cause problems for modern singers, since Haydn’s tessitura demands are great. As Erik Smith puts it in another of the album notes, “Where do we find basses with over two octaves from F and the technique of a bassoon, or tenors with two octaves from C and the technique of a clarinet?” (In this set, Landy and Titus occasionally resort to octave displacement when the written line drops out of their effective grasp.)

Philips has in fact assembled a cast of uncommon distinction; all in all, this is the best-sung Haydn opera that has come my way. Although one can hope that in future issues there may be a little more sense of the theater—of characters in lively interplay—right from the start, this Fedelta premiata sets a high standard and whets the appetite for more.

**Haydn: La Fedelta premiata.**

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<td>Melibeo</td>
<td>Maurizio Mazzieri (bs)</td>
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Michel Perret, harpsichord; Suisse Romande Radio Chorus; Lausanne Chamber Orchestra, Antal Dorati, cond. PHILIPS 6707 028, $31.92 (four discs, manual sequence).

**American Music and the Hand-Me-Down Habit**

*Is there a lesson in the fact that so much music written on this continent makes use of quotation?*

by Robert P. Morgan

In the past we have been inclined to view this country’s concert music within an almost exclusively European framework, limiting the scope of concern to those compositions most readily relatable to the German, French, and Italian roots of our musical heritage. Native efforts, particularly those written before the present century, have consequently been considered only poor cousins to—or idiosyncratic departures from—the main course of Western musical evolution. More recently, however, we have been disposed to take a broader and more liberal view of music history, including many of the "minor" and more parochial developments that have occurred both here and abroad. As a result, a great deal of music felt by many only a few years ago to be beneath consideration now seems remarkably suggestive and deserving of attention.

One of the main topics of interest that has emerged...
from all this, due in part, no doubt, to the intensive involvement with lives, is the prominent role played by quotation in so much of American music, a prominence amply attested to by five recent releases of works by native composers. Although two of the five are devoted to Ives himself, the others—a trio of Vanguard Everyman reissues—give equal evidence of a preoccupation with the puzzling phenomenon of compositional "borrowing."

The most interesting of the recordings contains works by Anthony Philip Heinrich (1781-1861), a Bohemian who came to the New World in 1818. Heinrich did not begin composing until after he settled in Kentucky and so is justifiably considered a truly American figure. He produced an extensive body of music during the last forty-odd years of his life, including pieces for piano, voice, chamber groups, and full orchestra. Although he came to be known by his contemporaries as the "Beethoven of America," he preferred to think of himself as the "log-house composer" from Kentucky.

All of the music on the present disc is taken from Heinrich's first three publications: The Dawning of Music in Kentucky, or the Pleasures of Harmony in the Solitudes of Nature (1820); The Western Minstrel (a supplement to the first, published the same year); and The Sylviad, or Minstrelsy of Nature in the Wilds of North America (in two volumes, 1823 and 1824-26). There are vocal works (for solo, duet, and chorus) and several programmatic piano pieces. All of his music gives evidence of considerable knowledge of the rules of tonal harmony, but these are often treated in a curious, even cavalier fashion. Also noticeable is a pronounced, quite possibly intentional naiveté and a well-developed sense of humor.

Most notable is the Barbecue Divertimento, an extended piano piece with phrases and sections dissolving unpredictably into one another to create a dreamlike continuity. Frequent quotations appear—e.g., "Yankee Doodle," "God Save the Queen," and Heinrich's own "Hail to Kentucky" (also on the disc and itself containing a fragmentary allusion to "Hail Britannia").

Like Heinrich, Ernest Bloch came to the U.S. in maturity (in 1916, when he was thirty-six), but he was already a well-established composer. Upon arrival, he conceived of a work that would express his feelings for this country. But he undertook the composition of America only after spending ten years absorbing folk (including Indian), popular, and patriotic music. Subtitled "Epic Rhapsody in Three Parts for Orchestra," the work is obviously the product of a skilled craftsman, although Bloch's apparent intention to use as much local material as possible results in a highly sectional, episodic structure. Also, it is difficult not to be discomfited by the strong strain of sentimentality. I confess to more than a bit of embarrassment when the motto for the entire work—in this case of Bloch's own invention—finally blossoms into an exalted anthem, performed by a full chorus, on Freedom, Justice, and Peace for all.

Folksong Symphony, which makes up the third Vanguard release, is listed among Roy Harris' symphonies (No. 4), although it is really little more than a suite of "arrangements"—admittedly quite effective and original ones—of folksongs taken from John and Alan Lomax's Cowboy Songs and Other Frontier Ballads and Carl Sandburg's American Songbag. Thus the five vocal movements present complete versions of the songs they employ, sung by a chorus to their original texts. (Three are devoted entirely to one song each; the fourth consists of two tunes, the other of three.) All this is pasted together with instrumental introductions and interludes between verses. The two nonvocal movements are also only interludes, again based on folk materials. There is not much more to be said, except that it is a very slick, professional job.

As for the use of borrowed material, the Harris represents at least one prominent tendency in American music, particularly in the popular and commercial field: a predilection for presenting existing music in a completely new (and usually showy) way. The best pop artists, for example, are able to transform their material into something uniquely their own (although only seldom to the extent of destroying its recognizability). The tendency can also be seen in certain aspects of jazz, often considered our sole truly native musical genre. But in jazz—at least the best of it—the borrowed material serves only as a point of departure, a formal base for the musician's own elaborate and highly original creations.

I suspect that the whole question is much more complicated than may at first appear to be the case: and taken together, the Vanguard discs provide a valuable lesson by indicating how difficult it is to make generalizations in this area. Although Heinrich, Bloch, and Harris undeniably have in common the way their works absorb "other" music, one is struck most forcefully by the differences. In Hein-
rich, for example, the citations, most of them fleeting, are used primarily for atmospheric purposes, as brief, often humorous, and very pointed representations of certain basic musical characters and types—such as a fiddle tune or a patriotic song.

Bloch, on the other hand, makes every effort to integrate the quoted materials into his score, weaving them into the fabric as organic components of the total design. Thus the borrowed tunes are used not so much as specific musical signs, but as symbols evocative of the general American character and heritage. In this regard, it is useful to remember how natural such a procedure must have been for a European musician trained during the latter part of the nineteenth century. Musical nationalism was at its height during this period, and one of the most common ways in which the nationalists attempted to separate their works from those of the central (mostly Germanic) tradition of European instrumental music was to use indigenous folk material—either by quotation or synthetic construction—as a melodic ingredient.

In spirit, then, Bloch's work is very close to what was already an established "foreign" compositional approach. A great deal of music by native-born Americans belongs in this category (such as works by MacDowell and Daniel Gregory Mason). But what one notices in these pieces—and it is especially apparent in the Bloch—is that, although the folk material lends the score a decided non-European character, the specifically musical means through which it is handled is taken right out of the technical catalog of late eighteenth-century program music. In other words, the "American" aspect of these scores is superficial and not an integral feature of the over-all musical conception.

One of the most impressive aspects of Ives was his ability to use quotations in a more consequential way, so that they determine not only the "manner" of his music, but also its "substance" (to draw a distinction Ives himself was fond of making). The Holidays Symphony and the Concord Sonata provide convincing illustrations: The whole logic of the musical development is transformed through the use of pre-existing music. No one will deny that the quotations are still strongly evocative, but, formally considered, they have taken on a new meaning. Treated as amalleable fragments that can be reordered and juxtaposed at will—rather like the found objects in a collage—they produce an extremely disruptive, non-sequential continuity that represents a significant departure from traditional European procedures.

It is no coincidence, I think, that Ives was an American, for no doubt his secondhand relationship with the European tradition enabled him to break away more easily from some of its most basic assumptions. But similar tendencies are also detectable in European music of the same time—in Mahler, for instance.

Any simple equation of quotation with American music, then, seems a great mistake to me. It should be remembered that quotation has been an accepted practice throughout European musical history, although— as in America—the manner and aesthetic meaning of its use has varied considerably from period to period and from piece to piece. Bach quotes Luther in the cantata Wachet auf, Mozart quotes himself in Don Giovanni, Tchaikovsky quotes Grétry in The Queen of Spades, Debussy quotes the "Marche alsacienne" in Fireworks, and Berg quotes Wagner in the Lyric Suite.

A few words about the recordings themselves. The sound on all of the Vanguard discs leaves something to be desired, and the performances are uneven. By far the best is Stokowski's reading of the Bloch, which comes off very well on the whole. The Harris symphony is decided on the rough side; the spirit is there, but the edges are ragged. (For comparison, there is the Abravanel/Utah Symphony version on Angel S 39091 that R.C.M. reviewed last December.) The Heinrich works are played by the American Music Group of the University of Illinois, an ensemble that has made an important contribution in bringing unknown earlier music to the public. Directed by Professor Neely Bruce, who also plays the piano solos, the performances have been prepared with care and enthusiasm, but they do not come up to professional standards. However, I will say that they seem appropriate to the music, whose "nonprofessionalism" is one of its most endearing qualities.

Bruce's notes are both interesting and helpful, but they are too inclined to let the Philadelphia sound engulf the complex surface of the scores, spreading over them an impressionistic haze that cancels out their multiple levels. The livelier sections, such as the Barn Dance segment in Washington's Birthday, are stiff and awkward, and the ensemble playing is not always ideal. I am sure many will disagree, but to my mind this is Ives for people who don't like Ives.

Hadassah Sahr is unfortunately hampered by a less than first-rate recording in her Concord performance. She approaches the work in a more subdued, lyrical manner than is common: Tempos are on the moderate side, and contrasts are generally played down. Despite occasional technical lapses, it is an interesting reading—though not, I think, one to take a place beside the distinguished versions currently available: Kirkpatrick's Columbia (MS 7147) and Kontarsky's Mainstream (5013) offerings, to name two radically different but equally successful interpretive approaches.

HEINRICH: "The Dawning of Music in Kentucky." American Music Group, Neely Bruce, piano and cond. VANGUARD EVERYMAN SRV 349 SD, $3.98 [from VANGUARD VSD 71178, 1974].


HARRIS: Folksong Symphony. American Festival Chorus and Orchestra, Vladimir Golschmann, cond. VANGUARD EVERYMAN SRV 347 SD, $3.98 [from VANGUARD VSD 2082, 1960].


IVES: Sonata for Piano, No. 2 (Concord). Hadassah Sahr, piano; Carl Adams, flute. [Henry Jocker, prod.] CRITICS CHOICE CC 1705, $6.98.
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DOKORDER

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BACH: Brandenburg Concertos (6). S. 1046-51. English Chamber Orchestra, Ray-
mond Leppard, harpsichord and cond. Philips 6747 1 66, $15.96 (two discs, manual se-
quence).

With so many fine sets of the Branden-
burgs, I have previously avoided recom-
mending any single "best" version. I'm glad I was cautious, for here is an edition that combines some of the polished probing of Britten's (London CSA 2225) and Goldberg's (alas, unavailable—last offered here on World Series) with the sheer electricity of Newman's (Columbia M 2 31998), the clarity and textual inventiveness of Davi-
son's (Vanguard Evermann SRV 313 4 SD), and a bit of the lyric freedom of Casals' (Columbia M 2S 731). A touch of everything, in short, but the original instruments of Harmoncourt (Telefunken 26.35043) and the Collegium Aureum (Victrola VICS 6023) or the conjecturally reconstructed "pre-deedi-
cution-copy" scores offered by Marriner (Philips 6700 045).

Perhaps the most direct competitor is the last entry in the Brandenburg sweepstakes, Somary's (Vanguard VSD 71208/9, March 1976), also with the English Chamber Or-
chestra and sharing seventeen of the twenty-two identified soloists. Since I had high praise for the playing on the Somary set, I should note that Leppard generally gets even more crisply on-target response from the ECO.

The predictably brisk and vital outer movements of No. 1 frame an Adagio that Leppard molds with loving but not lingering flexibility. José-Luis García, one of the soloists not in the Somary set, plays the violino piccolo part with a pure, sweet sound. (He is the concertmaster in the other concertos.) In the finale, Leppard varies the instrumentation of the recurrent Menuetto as strikingly as anyone since Scherchen. In No. 2, John Wilbraham nicely surpasses his clarino performance on the Somary recording, and Leppard loses no momentum in those outer movements through needless rit-
ards. The two Allegros of No. 3 go well enough, though Somary is a little more un-
buttoned and Goldberg more undulating. For the phantom middle movement, Leppard interpolates the Largo of the G major Violin Sonata, S. 1021 (also used in the Dart edition recorded by Marriner), but Philips doesn't trouble to identify it.

As with Somary, David Munrow and John Turner are the fine recorder duo in No. 4, and in the last movement Leppard's harpsichord continuo is more imaginative than it was with Marriner. The Andante has great depth and character, though I would prefer it a whole lot slower. No. 5 offers an exalted experience in ensemble partnership as violinist García and flutist Richard Ade-
ney swap phrases. Leppard's handling of the big harpsichord cadenza is recklessly propulsive, but he knows just the right mo-
ments to come up for air. Again, as with So-
mary, there is a lovely realization of the bass line by cello in the slow movement. The little Spanish-type tune in the finale goes with cracking lift. In No. 6, Leppard's string sextet gives a clear and well-con-
trolled reading, though the rubato-laden in-
terpretation of Goldberg (who is also one of the stunning viola soloists) remains unique in my affections.

As of now, Leppard wins my first Bran-
denburg recommendation. A.C.

BACH: Sonata for Violin and Harpsichord, No. 6—See Busoni: Sonata for Violin and Pi-
ano, No. 2.

See Musgrave: Clarinet Concerto.

BANKS: Concerto for Horn and Orchestra—

BEETHOVEN: Concerto for Violin and Or-

Isaac Stern's recent work has been uneven; here, I am pleased to say, he is in really good form. In the main, the playing is well in tune, the bowing secure, the phrasing—in its Romantic way—musicianly and communicative. Fine as his recording of the Beethoven concerto with Bernstein was, I prefer the new one, though that is partly for the differently conceived accompaniment.

Whereas Bernstein, like Barenboim both a pianist and conductor, concentrated on finesse of orchestral execution, Barenboim in this instance serves a more inspirational role, stressing naturalness of phrasing and motion at the occasional expense of detail. Both approaches work: Bernstein's framework is sometimes more judiciously bal-
anced, but Barenboim is more fluid. The orchestral work Barenboim secures is far more to my taste than that he drew from the London Philharmonic in the recent RCA set of the Beethoven piano con-
certos with Rubinstein (CRL 5-1415, May 1976). The basic sonority is still a trifle heavy and lumbering, but the pulse is strong and there is a definite feeling of (good) tradition behind the interpretation. It is interesting to note that the New York players rarely swell after the attack of long notes as the LPO does in the piano con-
certos. This is an altogether tougher and, in my view, more durable approach to Beethoven.

Stern plays the Kreisler cadenza in the first movement; the shorter cadenzas in the second and third movements, probably Stern's own, are very tasteful. Two unusual textual variants should be noted: First, at the end of the first movement the cello an-
wvers (bars 525-26, 529-30) to the bassoon phrases are omitted, in accord with the ma-
uscript; Beethoven apparently added the cello statements before publication. Second, in the Rondo one bar (217) is elided, following a full handwritten score in which the copyist (inadvertently?) dropped a measure. Whatever the historical merits of these deviations, I find both of questionable merit from a practical musical standpoint.

Buyers of this record are advised to check the stamper number of Side 1, which should be "2A" or higher. Copies with a "1A" Side 1 may be in circulation; Columbia has informed us that that side is out of phase. The record should be exchanged as defective.

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CRITICS’ CHOICE

The best classical records reviewed in recent months

BEETHOVEN:

BIRTWISTLE: Triumph of Time; Chronometer. Boulez. ARG AL 790, Mar.

BRAHMS: Symphony No. 1. Levine. RCA RED SEAL ALR 1-11326, May.


GERSHWIN: Porgy and Bess. MAAZEL. LONDON OSA 13116 (3), May.

HANDEL: Compases para preguntas ensimismadas; Violin Concerto No. 2. Henze. HEADLINE HEAD 5, Apr.

LISZT: Piano Sonata; other works. BERNER. COLUMBIA MELODIYA M 33927, May.


MONTEVERDI: Vespro della Beata Vergine; other works. SCHNEIDT. ARCHIV 2710 017 (3), May.


NIELSEN: Wind Quintet; other works. JUTLAND ENSEMBLE. DG 2530 515, Apr.

RAVEL: Daphnis et Chloé. MARTINON. ANGEL S 37148, Mar.

ROCHBERG: Chamber Works. Conundrum Quartet. COMPOSERS RECORDINGS SD 337, May. Chamber Symphony; Music for the Magic Theater. Oberlin College ensembles; Moore. DESTO DC 6444, May.

SCHOENBERG: Piano Pieces; other works. DEGAETANI, Kalish. NONESUCH H 71320, Mar.


SCHOENBOHM: Das Buch der hängenden Gärten. SCHOBER: Songs. DeGAETANI, Kalish. NONESUCH H 71320, Mar.


SCHOENBERG: Piano Pieces; other works. DEGAETANI, Kalish. NONESUCH H 71320, Mar.

SHOSTAKOVICH: Quartets 7, 13, 14. FITZSIMON. OCEAN-LYRE DSLO 9, May

STRAINSKY: Chamber Works. De WAART. PHILIPS 6500 041, Mar.

WAGNER: Das Rheingold (sung in English). Goodall. ANGEL SDC 3825 (4), Apr.

WAGNER: Siegfried (sung in English). Goodall. ANGEL SDC 3873 (5), Apr.


JEFFREY SOLOV: Cello Recital. RCA Red Seal DSM 1006, Apr.

A good, tough Fourth—to my hearing the most successful installment so far in Colin Davis’ unfolding Beethoven symphony cycle.

Davis paces the adagio introduction to the first movement broadly but keeps the line moving. The allegro vivace—with its exposition repeat taken—has a lithe, muscular, eminently classical quality, and the close recording is notably strong on detail. The slow movement sings ardently, even if the BBC Symphony strings lack the blend and absolute unanimity of some other orchestras; interpretively, only the heavy tenutos on the last two chords bothered me. The scherzo is well sprung, with the trio slightly—but not obtrusively—eased in the manner of Beecham’s reading. The finale is excellent: measured, always dancing in its pulse, yet not overly pressed (the marking is allegro ma non troppo).

The Egmont Overture is steady, granitic, weighty. Once again balances are finely gauged, and the crystal-clear reproduction is exactly right for Beethoven’s orchestra for all that, the performance never quite springs to life.

H.G.

bloch: America. For a review, see page 70.

brahms: Cello Sonata in F minor, Op. 38. ARNO LOPO, piano. PHILIPS 6500 032, $7.98. TAPPELHOFER 7300 455, $7.95.

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76
There are more than two dozen versions of this work in the current catalogue, and if you simply pick one of them at random the odds favor your getting a performance of real merit.

I find two excellent reasons for recommending this version: The performance has a very warm, Romantic manner that suits the music well (better, indeed, than much of the striving for virtuosity that other pianists provide), and the recording is appropriately robust, with a wide dynamic range and a firm sense of presence. The SQ effects are not striking, but you can secure some impressive and room-filling sound. I ended up using a double quad system—eight tweeters, eight midranges, and eight woofers—in a circular formation. It sounded marvelous.

Pianist and conductor see this work in the same terms, so it's a well-unified performance with a sentimental glow that brightens the opening movement, brings joy to the scherzo, and really bursts forth in the Andante and the grazioso elements of the finale. If you prefer Brahms the poet to the scherzo, and really bursts forth in the Andante and the grazioso elements of the finale. If you prefer Brahms the poet to the striving for virtuosity that other pianists provide), and the recording is appropriately robust, with a wide dynamic range and a firm sense of presence. The SQ effects are not striking, but you can secure some impressive and room-filling sound. I ended up using a double quad system—eight tweeters, eight midranges, and eight woofers—in a circular formation. It sounded marvelous.

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Dutilleux: Concerto for Cello and Orchestra (Tout un monde lointain). Lutoslawski: Concerto for Cello and Orchestra.

Mstislav Rostropovich, cello; Orchestre de Paris, Serge Baudou and Witold Lutoslawski, cond. [David Motley, prod.] ANGEL S 37146, $6.98 (SO-encoded disc).

Mstislav Rostropovich's performance of the Dutilleux cello concerto at the Aix-en-Provence festival in July 1970 was the fifty-second world premiere of the great Russian musician had given. In many cases, he himself commissioned the works, as with the Dutilleux and Lutoslawski concertos (both completed in 1970) on this outstanding new release.

Subtitled Tout un monde lointain (An Entire Faraway World) after a Baudelaire poem that sings of total escape of "the mind and the senses," the Dutilleux work is made up of five interrelated movements, each inspired by Baudelaire lines. As in the Second Symphony [HF, May 1975] and the Cinq Metaboles, the composer makes considerable use of reverse variation, in which material presented in fragments does not take on its full form until developed via variation. The opening cello theme, for instance, sounds quite atonal but is not presented as a complete tone row until the first variation, where it is colored by expanding orchestral chords reminiscent of the principal chorus motive of the Metaboles. Throughout the concerto those emotionally charged chords, whether tightly clustered or wide-intervaled, contrast with the dynamically conceived themes (usually given to the solo cello) to produce an extraordinary sensation of expansion, contraction, and transformation. Furthermore, Dutilleux's instrumental genius shows expectedly Romantic work that is unexpectedly fresh in its melodic appeal and unexpectedly magisterial (if of course orthodox) in its formal craftsmanship. Here the Hungarian-born Granat's relatively small but sweet tonal qualities and Hancock's sonically chamber-scaled recording are perfectly suited to the charming, lighter-weight materials. R.D.D.
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stunningly in the ongoing coloristic/metaphor of osmosis (the work's original title was Osmose) between soloist and orchestra.

If Dutilleux is imparting new vitality to traditionally rooted directions, Lutoslawski with equal success follows an almost opposite course, using such ultramodern devices as microtonal intervals, aleatory passages, and multidivisi instrumentation in an inspired, nonsystematic way that generates immense excitement and tension. Opening with an obsessively repeated D in the cello, the concerto gradually expands this single note into more complex motives that finally involve the orchestra in a somewhat violent, extended interplay in four episodes. After a return to the D motive, a much quieter, slower section moves toward a deceptive resolution into order—an extended unison passage that is brutally interrupted by the brass, beginning the final section. Inevitably, the music works its way back to a single repeated note on the cello—this time a high A—that quietly concludes the concerto. (The Dutilleux concerto ends ambiguously on a buzzing, chromatic trill in the cello.)

It is obvious that Rostropovich has inspired both composers to carry the solo cello into realms that one could justifiably consider impossible for the instrument. Yet he not only unflinchingly accomplishes the impossible, but does it with a consummate blend of tone and technique that makes it all sound beautifully natural. Both of these works also make virtuoso demands on the orchestra, whose performances here are as dynamic and sonorous as the soloist's. All of this is captured in brilliant state-of-the-art sound.

R.S.B.


Jenö Jandó, born in 1952, is yet another outstanding pianist out of the Franz Liszt Academy in Budapest. His account of the Grieg concerto is superbly wrought—sufficiently dramatic but refreshingly unperturbing in its pristine phrasing and attractive color. The orchestral part in the warhorse Romantic concerto literature is often taken for granted; here conductor Antal Jancsoevics takes altogether uncommon care to blend and balance instrumental choirs, and there is superb dovetailing of lines and shaping of phrases.

The Ravel C major Concerto gets a similarly unforced, tonally attractive statement. Jandó strikes a middle position between the chiseled exactitude and every-note-in-place classicism of the superb Michelangeli/Gracis recording (Angel S 35567) and the jazzy splashes of the François/Cluytens account (Angel S 35874). One is reminded of the work's natural expressivity, of its beautifully intricate pianism, and of the wonderful concertante orchestral writing (which the Budapest brasses cannot quite execute with razor-sharp precision).

The close-up microphone placement and spacious but very clear acoustic add up to vibrant reproduction. Recommended especially for the Grieg, though both performances are excellent. H.G.

**Haydn:** La Fedeltà premiata. For an essay review, see page 68.

**Heinrich:** "The Dawning of Music in Kentucky." For a review, see page 70.

**Herrmann:** Quintet for Clarinet and Strings (Souvenirs des Voyage); Robert Hill, clarinet; Ariel Quartet. Amici Quartet. [Gavin Barrett and John Snashall, prod.] UNICORN RHS 332, $7.98.

There is certainly no mistaking the composer of the lovely clarinet melody flowing into softly modulating string chords of the opening of Bernard Herrmann's 1967 clarinet quintet. Yet it is not so much the themes in this opulently romantic, also occasionally Ravelian piece that make the greatest impression, but rather the Herrmannesque harmonic directions they take. Any listener waiting for those moody, outside-of-time disquieting moments (note the disquieting "Valse lente" and "Scherzo macabre"). I am not enamored of this performance (re-released earlier in the Pye Golden Guinea series in England). The Amici Quartet is at its best in the faster tutti passages; the slower sections frequently highlight the soloists, and none of the individual playing stands up very well. Entrances and intonation could be surer too.

Until a first-rate string quartet decides to tackle these works, however, this disc will remain an essential document in the Herrmann discography. R.S.B.

**Ives:** Holidays Symphony; Sonata for Piano, No. 2. For a review, see page 70.

**Krenek:** Various Works. Various performers. ORION ORS 75204, $6.98.

O Lacrymosa (Genevieve Welde, soprano; John Dare, piano); The Santa Fe Timetable (California State University Northridge Chamber Singers; John Alexander, cond.); Tape and Double (Patricia Marcus and William Tracy, pianos); Toccata (Robert Young McMahan, accordion).

Ernst Krenek's remarkable compositional career now spans over half a century. During this period he has, remarkably, maintained a position close to the center of the most up-to-date musical developments. He has been, at one time or another, closely associated with jazz-influenced composition, the Second Vienna School, and postwar total serialism.

This recording contains four pieces encompassing virtually the entire range of his...
career. The earliest, O Lacrymosa, dates from 1926, Krenek's twenty-sixth year. It is a setting for soprano and piano of three poems by Rainer Maria Rilke that were dedicated to the young composer with the understanding that he would set them to music. (Rilke received news of the completion of the piece just before his death.)

At this stage Krenek was still writing local music in the functional, triadic sense, and O Lacrymosa shows clearly the extent to which he had mastered traditional musical language and had found a vehicle to suit his own expressive purposes. These songs are, to put it simply, quite lovely, and they make a deep and lasting impression. Although they are described in the liner notes as "neo-Romantic," their Romanticism is tempered by a haunting twentieth-century reserve. They are beautifully sung here by Genevieve Weide, but unfortunately the German text is almost completely unintelligible.

The Santa Fe Timetable (1945) is just that: a choral setting of the names of the railroad stations between Albuquerque and Los Angeles. Not surprisingly, at the time of its composition the work created something of a sensation. Krenek explains: "It was conceived as a highly 'objective' documentary corollary to the subjective lyricism of my ballad of the Railroads for solo voice and piano of the same year. The concept was inspired by the Liber generationis Jesu Christi by Joquin des Prez, an ingenious six-voice setting of the 'begat' section of the Gospel according to St. Matthew." These days, when such things have become our daily musical bread, the effect is no longer shocking, but at best mildly amusing. The music in this instance is something of a bore: The unrelied dissonance of the dense, obsessively imitative a cappella choral writing soon begins to wear on the ear. And here the performance, by the California State University Northbridge Chamber Singers under John Alexander, does not help. The singers struggle vainly, but one is conscious of an almost constant strain to meet the inordinate vocal difficulties.

The most recent work is the Tape and Double (1969-70) for two pianos and electronic tape. One of the pianos is "prepared": A light metal chain is stretched over the strings, thus modifying the timbre and contributing to what the composer refers to as "connotations of growing tension and catastrophe." The altered piano also serves as a timbral buffer between the normal piano sound and the electronic portions. The coordination between tape and live performers appears to be carefully regulated. At times the live and taped portions are contrasted with one another, but they also frequently mimic each other. Many interesting timbral exchanges grow out of this idea, and sections have a strong dramatic profile (especially the ending). But formally the over-all impression is of a stringing together of fragmentary effects (much of the piece seems to be made up of scraps of what might be termed a latter-day equivalent of passagework). And given the composition's extended length—twenty-two minutes—this makes demands upon the listener's attention span.

One of Krenek's many interests (as with Hindemith) has been to supply "practical" music for instruments lacking an extensive solo literature. (The harp sonata, for example, is one of his best-known works.) The toccata for accordion, written in 1962, falls in this category. In four sections, it is a brilliant, but stylistically eclectic, tour de force for the instrument. Krenek has always struck me as an extremely gifted composer who has had difficulty finding his own "proper" voice, an explanation no doubt for his tendency to experiment with currently fashionable compositional developments. In this case, the style is by no means "avant-garde" but rather a sort of non-descriptive Gebrauchsmusik. Nevertheless, Krenek gives the accordionist a fine work-out—which, I suspect, was his main concern. The piece is beautifully played by Robert Young McMahon.

R.P.M.

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H.G.

LISZT: Die Legende von der Heiligen Elisabeth.  
Landgrave Hermann  
Countess Sophie  
Landgravine Ludwig  
Elizabeth  
Frederick II  
A Hungarian Magnate  
The Serenissim  
Ludwig as child  
Elizabeth as child  
Koales Kováts (bs)  
Elzbieta Komisjw (ms)  
Sándor Sőrtenyi (a)  
Eva Andor (s)  
József Gregor (bs)  
Lajos Mikler (bs)  
György Bordász (b)  
Dyayán Turán (o)  
Eugenia Krabrova (gh)  
Cszechoslovak Radio Children's Choir, Bratislava, Slovak Philharmonic Choir and Orchestra, János Ferencsik, cond. [Ladins Molnár, prod.] HUNGAROTON SLPX 11650/2 (three discs, manual sequence).

Among the great composers who have been directors of busy, important opera companies, Weber wrote just one successful opera and no others that show any sure command of the theater, Haydn wrote operas whose success was confined largely to his own troupe; Mahler wrote none, and Liszt none after the one-acter Don Sanche, composed when he was thirteen. (South of the Alps the picture may look different. In Naples, Rossini and Donizetti were at once musical directors and house composers, but, under contract to Barbaia, neither of them controlled his company and its repertory in the way Haydn, Weber, Liszt and Mahler did theirs.) It does seem odd that neither Liszt nor Mahler should have tackled music-drama, perhaps the constant attention to the staging and conducting of other men's operas inhibited efforts of their own in the genre.

Under Liszt, Weimar became a center for operatic adventure. Lohengrin and Schubert's Alfonso und Estrella received their premieres there, Tannhäuser, Benvenuto Cellini, and Schumann's Genoveva their first revivals, and I due Foscari its German premiere. Liszt had produced Tannhäuser in 1849. In 1851 he learned how Siegfried, which had already grown from one opera to two but was still promised to Weimar, had now grown into a four-evening work beyond Weimar resources; what had previously been narrative would now be shown as stage action. The next year—apropos of Venus and the dead Elisabeth's appearances in the last scene of Tannhäuser but indicating Ring thought—Wagner told Liszt that "nothing that can be shown on the stage should be left to the imagination or merely indicated; everything should be shown." The year after that, Liszt put into print his conviction that the stage is "too confined a field for lofty passions," cramping when it "tries to replace the splendid visions of the imagination by visible scenery." In 1855, he began work on Die Legende von der Heiligen Elisabeth.

Those facts form a sequence, I believe, and Saint Elizabeth is in some sense an "answer" to Tannhäuser. Wagner's heroine is a conflation of the saintly Elizabeth of Hungary (the Landgrave Hermann's daughter-in-law, not niece, in history) and the fair Countess Matilda loved by both Heinrich and Wolfram; Liszt's libretto is drawn more closely from history and hagiology. The

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It is convincingly and pleasingly the voice of an Elsa or an Elizabeth, but—until Scene 5, where the emotional temperature does rise and she becomes a moving interpreter—she plays too little (even into the words and the phrasing, Erzsebet Komlosy, who sang an unfortunate Azucena at Covent Garden in 1970–71, has no inhibitions about characterizing the cruel mother-in-law, but she lets fly in a breathy, imprecise, undisciplined manner. The male roles, all small and all low-voice (no tenors), are lyrically and steadily sung.
The work is done in the original German. Its words are clearly pronounced rather than brought to life. The choirs sing well but sound much the same whether they are impersonating courtiers, warriors, or angels. The orchestral writing is grand; occasionally the woodwind chording misses the purity of intonation that is essential to Liszt’s writing. (The allwind accompaniment to Elisabeth’s Prayer, in Turnhausen, may have been an influence here.) But the recording is smooth, decently balanced, not fierce even at the largest climaxes. The surfaces are free of pop, but my pressings contained some swishy passages.
A long, careful introductory essay comes in four languages (Hungarian, English, German, and Russian), and the German column of libretto is backed by Hungarian and English translations (strictly, not an English translation, but a doggerel singing version lifted, I guess, from the Novello vocal score). Anyone unfamiliar with the life of Saint Elizabeth will need more help than has been given to set Liszt’s isolated tableaux in context.

Lutoslawski: Concerto for Cello and Orchestra—See Dutilleux: Concerto.


Donald Martino’s Paradiso Choruses. Part II of a projected larger oratorio based on Dante’s Commedia, is heard here in a live recording of the world premiere, May 7, 1975. Commissioned by the Paderewski Fund to mark the twenty-fifth anniversary of Lorna Cooke de Varon’s tenure with the New England Conservatory Chorus, the half-hour work is in a more conservative idiom than that with which he, along with his Pulitzer Prize-winning composer, the Mahler Eighth Symphony was brought to Czech choirs and orchestra but soloists from the Hungarian State Opera, in Bratis-
ava (Pressburg, Pozsony, now in Czecho-
slovakia but then the capital of Hungary), where Liszt himself conducted Saint Elizabeth in 1883. By conductor Janos Ferencsik and all concerned, the dramatic elements are underplayed. The heroine, Eva Andor, has a clear, gentle soprano, which has also been taken on the Hun-
garoton discs of Liszt’s Christian and Pro-
metheus and Kodály’s The Spinning Room. It is convincingly and pleasingly the voice of an Elsa or an Elizabeth, but—until Scene 5, where the emotional temperature does rise and she becomes a moving interpreter—she plays too little (even into the words and the phrasing, Erzsebet Komlosy, who sang an unfortunate Azucena at Covent Garden in 1970–71, has no inhibitions about characterizing the cruel mother-in-law, but she lets fly in a breathy, imprecise, undisciplined manner. The male roles, all small and all low-voice (no tenors), are lyrically and steadily sung.
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mind by the recurrent elements of Impressionism and late Romanticism (both Viennese and Italian), along with the gigantic performing forces—a fair-sized orchestra, large adult and children’s choirs (in two- and three-part groupings, deployed at the premiere around the horseshoe-shaped balcony of Boston’s Jordan Hall), fourteen soloists, and taped effects (for the Devil’s voice and others).

At this remove from the excitement of the live event, with a recording that—especially in two-channel playback—lacks the luster and clarity I heard from an ideal location in the center of the hall, I am more conscious both of the limitations of the performance and of the rambling character of the score itself. It may take a thoroughly professional performance under studio conditions to permit a fuller assessment of the work’s staying power.

The overside three pieces by Daniel Pinkham, written between 1972 and 1974, lean heavily on aleatoric and electronic effects. Except for the 1973 setting of For Evening Draws On, where the lovely English-horn solo is impressively spectral in the context of all that tape background, it is rather arid stuff.

There are notes on all the works and full texts for the Paradiso Choruses. My pressing could have been better.

A.C.

MOZART: Missa brevis in F, K. 192; Missa brevis in C, K. 259 (Organ Solo). Celestina Casapietra, soprano; Annelies Burmeister, mezzo; Peter Schreier, tenor; Hermann Christian Polster, bass; Leipzig Radio Chorus and Symphony Orchestra, Herbert Kegel, cond. PHILIPS 6500 867, $7.98.

Archbishop Colloredo liked his Masses kept short, well within an hour, so the young Mozart had to be concise in setting the Ordinary to music. Despite such restrictions and the fact that the composer was only eighteen, one of the two Masses offered in this recording—K. 192, composed in Salzburg in 1774—is a masterpiece. The concentration is extreme, yet entirely successful; there are no filler measures, and every word is aptly set to music. This compactness could not have been due solely to the archbishop’s preferences. Mozart is palpably experimenting here to satisfy himself; the forms are rounded, the thematic elaboration is consequent and tight.

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CIRCLE 10 ON READER-SERVICE CARD
A surprising feature is that Mozart, who in some of his earlier church music used a larger orchestra (even four trumpets) with gusto, now returns to the old practice of trio writing, to the skeleton orchestra of two violins and bass—no violas, no winds (an organ continuo is necessarily added). But the little orchestra is handled with skill and is always engaged. Indeed, thematic work is so much on the young composer's mind that he makes little distinction between the voices and the orchestra, using the same material in both. Yet the choral writing is idiomatic, everything is through-composed even though words are repeated, and a delectable melodiousness envelops all. The magnificent theme of the Gloria was obviously the model for Schubert's song "Der Mond".

The Credo is a remarkable piece. Time and again Mozart repeats the principal motif to emphasize the key word, "credo." This four-note motif, well known to everyone—it opens the finale of the Jupiter Symphony—is of liturgical origin; it was used by the Dutchmen and by later composers, among them Haydn in his Symphony No. 13. This simple theme accompanied Mozart throughout his creative life. From the early symphony, K. 16, onward it had a mysterious attraction, and it is always lovingly manipulated. The contrapuntal configurations in this movement are not of the scholastic type; they are subtle, inventive, and deeply felt.

The Sanctus is also fine: Its melodies are beguiling, and its "Osanna" is a light, sparkling fugato, delightfully sung by the Leipzig chorus. The Benedictus is dreamy; then in the Agnus Dei dramatic accents appear for the first time, the harmony and counterpoint close in boldness to Mozart's mature language. Perhaps this extraordinary concentration tired the youthful master, because in the "Dona" he falls back on the Italian style then in vogue, composing the kind of pretty music that makes purists uncomfortable.

This Mass is so full of captivating ideas, and is so pregnant of things to come, that no Mozartean should miss it. As I said above, it must have been an experiment of sorts, because Mozart never returned to this kind of setting. Though K. 192 must have been popular, its delicate features were hardly appreciated by the editors of the several editions that preceded the modern critical one. Diabelli composed a complete viola part for it, and other editors added wind parts.

K. 259, though composed two years later, is more routine, but of course it is routine Mozart. The orchestra is enlarged by trumpets and drums; the whole work is festive and bright with its open choral writing, giving the impression that both gayety and the popular tone are deliberate. Perhaps the archbishop was celebrating some joyous event. At any rate, there is no polyphony in this work, nor does Mozart set every word with the tender care for affective values he showed in the older Mass. The Sanctus is a veritable concert, especially the Benedictus with its brilliant obbligato organ solo that gave the Mass its title. The Agnus Dei is a Neapolitan serenade, with a melting melody and pizzicato accompaniment. There are some fine moments in this Mass, but it cannot compare with the earlier work.
The performances are excellent. Everyone knows his place: the solo ensemble is discreet and in good balance, the chorus is euphonious and lively, and the orchestra is light without being self-effacing. Credit must go to the conductor, Herbert Kegel. His tempos are just right, and he closely watches the changes necessitated by the affectively or dramatically set passages. I should single out the attractive choral trebles; their tessitura in K. 192 is high, but they cope with the situation handsomely. Walter Heinz Bernstein's continuo is unobtrusive but efficient—as it should be—and his solo performances are very nice. The sound is good; the liner notes are inept.

MOZART: Quintets for Strings: in C minor, K. 406 (516b); in G minor, K. 516. Grumiaux Trio; Arpad Gerecs, violin; Max Lesueur, viola. PHILIPS 6500 620, $7.98.

In ensemble and intonation, these are absolutely faultless renditions. Octaves are dead in tune, unisons bowed with incredible unanimity, and precision carried over into such matters as use of vibrato, balance between instruments, and even the style and use of shifting and portamento.

Sometimes this quintet's classical decorum approaches emotional self-denial. The opening movement of K. 516, for example, clearly etched and light-fingered, is undeniably beautiful in an abstract way but fails to realize the smoldering, quasi-operatic elements in the writing. Tempo relationships are maintained very strictly, with absolutely no slackening for the second theme group. (The first-movement repeat is not taken, an altogether sensible decision.) The détaché phrasing of the Menuetto takes some getting used to, although the textures are kept more buoyant than usual and the rhythmic accentuation is wonderfully precise. I find the sublime slow movement rather rigid and hurried; compare the emotional outpouring of the 1957 Budapest Quartet/Trampler reading, unfortunately "superseded" by the group's much coarser stereo remake. The finale, with its dirgelike Menuetto and swift allegro, is remarkably well played here.

There is less to cavil at in K. 406, though again the performance seems a mite too cool and lightweight, particularly when heard alongside the superbly driving, rhythmically alive Danish Quartet/Colotto reading (in Telefunken 56.35017, December 1974). Grumiaux and colleagues heed values and articulation but avoid the somber, almost Beethovenian overtones that for me give this piece its particular flavor. The level of execution is very high, but the Danish version is as finely executed and its more powerful interpretation is more to my taste.

For K. 516, the one major disappointment is the Hungarian reading (in Hungaroton LPX 11348/40) will do very nicely until Columbia re-releases the earlier Budapest/Trampler set. H.G.

violin, Staatskapelle Dresden, Edo de Waart, cond. PHILIPS 6500 965, $7.98.

De Waart's Mozart serenade series began with the later wind works; more recently he has shifted from the Netherlands Wind Ensemble to the Dresden State Orchestra to tackle the earlier serenades that call for strings and trumpets and other woodwinds and horns, beginning with the Posthorn (No. 9, Philips 6500 627, September 1975) and now moving back to No. 4. (Nos. 5 and 7 are already available overseas.) Too few discophiles have ventured into these delectable divertissements, which in the case of Nos. 3, 4, and 5 even include scaled-down violin concertos often more demanding technically than Mozart's formal violin concertos.

The present serenade is sometimes nicknamed the Colloredo on the presumption that it was intended (as its companion Nos. 3 and 5 also may have been) as banquet music for the Salzburg archbishop's September 27 nameday. In traditional serenade/di-vertimento fashion, De Waart's performance begins with a cheerfully festive introductory march, one linked both by its melodic lines and its temas composition and by some thematic kinship. The serenade proper begins with a ceremonial Andante maestoso prefacing a driving Allegro assai. The next three movements comprise the miniature concerto sections: a gravely elegant Adagio, a breezy Menuetto (concertante only in its dashing trio), and a bra-vura showpiece Allegro. Then follow a sec-ond and third Menuetto framing a second Andante, and a high-potential finale Pres-tissimo featuring brief examples of the so-called Mannheim crescendo.

The whole program is so capably played—by the delicate-toned soloist as well as by the properly small-sized orchestra—and so brightly and invigoratingly re-corded that I feel almost ashamed that I can't bring myself to praise it unreservedly. But De Waart's reading falls short of my Mozartian ideal in its overintensity and insufficient grace and humor.

I haven't had a chance to make direct comparisons with the currently available competitive versions, but I presume that the budget-priced 1968 Boskovsky edition (Stereo Treasury STS 13077) may be mellower if less sonically vivid than this one. Listeners wanting a more extroverted virtuoso soloist may want to wait for domestic release of Zukerman's 1975 CBS recording. But in whichever version, you'll welcome this serenade as a lifetime musical good companion.

R.D.D.


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In June 1976
Schoenberg: Moses und Aron.

Moses
- Gunther Reich (soprano)
- Richard Casazza (tenor)
- A Young Girl
- Sally MacDonald (mezzo-soprano)
- A Young Man
- John Winfield (tenor)
- Another Man
- John Noble (tenor)
- Ephraimite
- Roland Hermann (tenor)
- Priest
- Richard Angas (bass)
- Four Naked Virgins
- Jane Manning (soprano)
- Felicity Palmer (mezzo-soprano)
- Gillian Knight (mezzo-soprano)
- Helen Watts (mezzo-soprano)
- Six Solo Voices
- Gillian Knight (soprano)
- Helen Watts (mezzo-soprano)
- Philip Langridge (tenor)
- Michael Roscoe (bass)
- Denis Wicks (bass)

BBC Singers, Orpheus Boys' Choir, BBC Symphony Orchestra, Pierre Boulez, cond. [Paul Myers, prod.] Columbia M2 33594, $13.96 (two discs, automatic sequence).

Comparison:
- Reich, Devos, Geyer/Austrian Radio

In 1951 Schoenberg wrote that the subject matter and treatment of his opera Moses und Aron were "purely religious and philosophical in nature," rejecting any interpretation that "brings the artist into it." This letter is quoted with approval by Harry Halbreich in his essay accompanying the new recording of the opera, yet it is hard not to regard the work as an allegory of communication: all those situations in which a gifted and far-seeing individual (Moses) has difficulty conveying his perception to the rest of humanity (the people of Israel) and in which his chosen intermediary (Aron—politician, public-relations man, musical "mediary"; and you) will distort that perception in the process of translating it into public terms. (A particularly interesting discussion of this aspect of the opera, which Halbreich cites, will be found in an article by David Lewin reprinted in Perspectives on Schoenberg and Stravinsky, edited by Benjamin Boretz and Edward T. Cone and published in paperback by W. W. Norton.)

Conceivably the reason for Schoenberg's desire to suppress (as well as, probably, to represa the artistic interpretation of the opera) lies in the potential for misunderstanding that it offered—that is, food for the critics who felt that the composer was a Moses, a man who could not express himself. (To some such critics, even today, Alban Berg was the Aron to Schoenberg's Moses, a suggestion unfair to both men.) In any case, the most important point to make about Moses und Aron is that Schoenberg did not fail to communicate, brilliantly and movingly, the problem of communicating the incomunicable.

Each of the four levels is distinctively characterized in sound: God's voice represented by six solo voices doubled by instruments; Moses using rhetorical speech; Aron a bel-canto tenor, singing flowing and melismatic lines; and the people an elaborately various polyphonic chorus, singing, speaking, and whispering, often in combination. Although the musical structure, a series of clearly delineated movements, is not dissimilar to that of late Wagner and Strauss, the sound is quite different: lean and linear, made up of punchy accents and sparse, soaring phrases rather than richly doubled textures wrapped around a warm core of close harmony in strings and horns. The details of
the writing are unfallingly colorful and often
usual; the climaxes are shaped surely and
stirringly.

Between this new recording and last
year's Philips set conducted by Michael
Gielen (February 1975), the choice is not
simple. Both share Günther Reich as Moses,
but have different performances: restrained for Boulez, rather more vehe-
mente for Gielen (perhaps because the lat-
ter's sympathies are "100 percent with Aron," as he says in an interview in the
Philips booklet). Aron remains a problem, and not without reason, for his is an ex-
tremely difficult part. I'd like to hear a
really Italianate voice, but few such singers are trained to cope with the rhythmic
and interivallic relationships that Schoenberg deals in. Columbia's Richard Cassilly is
about as accurate as Philips' Louis Devos and
offers a bit more heft in the climaxes
(although his top notes, B flat and B, are nei-
ter secure nor attractive). Still, Devos of-
ers a sweeter sound—if hardly the optim-
um in that direction—and more fluency,
both essential aspects of the role's charac-
terization. The remaining parts, most of
them quite short, are fairly well taken by
the English team, although with some funny accents here and there.

Some significant, yet not necessarily de-
cisive, differences emerge in considering
the larger forces. The BBC chorus is cer-
tainly larger than the Austrian Radio forces
that Gielen worked with, and that is all to
the good. But the recording is rather less fo-
cused, so we lose in clarity what we gain in
impact. Small details, both choral and or-
chestral, tend to melt away in the rather
spacious resonances that the Columbia en-
ngineers favor. This is a problem here, as it
would hardly be in, say, La Bohème, a work
not only well known, but also in a style so
familiar and so consistent that the listener
can infer details only partially explicit in a
recording. If only for this reason, I would
recommend Gielen's version, with Boulez'
valuable supplement.

There are some other valid points in Gie-
en's favor. In several scenes, he gets more
swing and punch into the rhythms, and the
big spoken double-chorus exchanges have
more rhetoric and conviction—sometimes
Boulez' people seem to be chanting laundry
lists rather than shouting revolutionary si-
gans. Naturally, Boulez manages some
characteristically revelatory bits of tex-
tural clarification (the leprous episode has
fine shape, and the pouring of the Nile wa-
ter is a dazzling detail), but the recorded
sound is not particularly friendly to this
strength of his conducting.

Philips does better by side breaks, put-
ting the first one after Scene 2 rather than
Scene 3 (which is not really a break, but
rather a carefully prepared silence, its ef-
effect washed away in Columbia's runoff
groove), the second one before rather than
after the whispered Zweisprachspiel! "Wo ist
Moses?")—rightly preceding the second act,
rather than following on the heels of Act I's
enormous climax. The remaining break is
identical in the two sets.

In Columbia's favor is Halbreich's in-
esting essay, which explores Schoenberg's
little-known drama Der biblische Weg, on a
theme closely related to that of the opera.
This is much more to the point than Philips'
tendentious interview with Gielen. I do
miss, however, the valuable essays by Al-
en Forte and Milton Babbitt that accom-
panied the old Columbia recording (al-
though Babbitt's, at least, is reprinted in the
Schoenberg-Stravinsky paperback men-
tioned earlier). Both libretto presents
Forte's translation and include the never-
composed text of the third act.

Bad marks to Columbia for billing the op-
era as Moses and Aaron. As Nicolas
Sloimanisky pointed out in the April issue,
"Aron" is not the German form of "Aaron,"
but Schoenberg's purposeful misspelling of
a name that is normally the same in both
languages (at least in part to avoid a trauma
to his triskaidecaphobia).

D.H.

**Schubert: Sonata for Piano, in B flat, D. 960. Rudolf Serkin, piano. (Thomas Frost, prod.) COLUMBIA M 33932, $6.98.**

Serkin's performance of the monumental
Schubert B flat Sonata is often quite touch-
ing in its muted intensity, and there are
some brilliant, even piercing, passages. But
I found myself more wearied by the reading's oppressive weight and regularity than
moved and soothed by transfigured calm.
The first movement is fragmented and
weighted down by Serkin's Germanic in-
sistence on rigorously maintaining the ba-
sic tempo. In the middle movements, he
begins to let the music breathe, and the
Andante sostenuto—if hardly atmos-
pheric—sings persuasively. The moderately
paced scherzo has some delicacy and color,
though I was bothered by some minuscule
lapses in articulation; the trio is given with
heavily stressed sforzandos, an unusual
and ultimately convincing approach. But
in the finale we are back in the schoolroom.
Serkin feels this music deeply, and in its
way this is an exceptionally disciplined and
exalted reading. But among current record-
ings I am far more comfortable with the
more poetic accounts of Gabriel Chodor
(Orion ORS 75179), Michele Boegner (MHS
1042), and most of all Clifford Curzon (CS
6601).

Serkin observes the long first-movement
repeat, which I like. The sound is rounder
and more colorful than that of most Serkin
discs.

H.G.

**Schubert: Wanderer Fantasy, D. 760. SCHUMANN: Sonata for Piano, in G minor, Op. 22. Bruno Leonardo Gelber, piano. CON-
NOISSEUR SOCIETY CS 2085, $6.98.**

5 Sonata (CS 2864, January 1978), this
ambitious coupling upholds the promise of his
outstanding early discs. The Wanderer
Fantasy is taut, structured, well sprung
rhythmically, with colorful but clear tex-
tures and superbly sharp articulation. In its
alert, classical, beautifully proportioned
way, this Wanderer recalls Fleisher's
though Gelber unfortunately uses the now
discredited text that keeps the D sharp all
the way through the last measure of the sec-
ond section instead of changing at midpoint
to D natural.

In the Schumann G minor Sonata, Gel-
ber's prestidigitation functions within a
freer mold. He rightly stresses Schumann's

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CIRCLE 7 ON READER-SERVICE CARD

feverish bravura, yet achieves a spacious, deeply inflected melodic line in the brooding Andantino. The result is once again a marvelously played, exciting performance, though the superb recordings of Engel (Telefunken), Frankl (Vox), and Arrau (Philips) score by appending the work's original finale, the Presto passionato.

The sound is resonant but brilliantly focused, and my pressing was excellent. H.G.

SCOTT, C.: Concerto for Piano and Orchestra, No. 1, in C, John Ogdon, piano; London Philharmonic Orchestra, Bernard Herrmann, cond. LYRITA SPCS 81, $7.98 (distributed by HNH Distributors).

Imagine an amalgam of Ravel (of the Jeux d'eau variety), Scriabin, Delius, and even (before the fact) Gershwin, and you will have an idea of the unique sound of Cyril Scott's haunting First Piano Concerto (1913-14). Like many works that are impressionist in orientation, the concerto concentrates strongly on interrelating harmonic and instrumental sonorities, brought into relief through the abundant use of non-resolving chordal patterns and through the immediate, often mesmerizing repetitions of short motivic filigrees.

But although the English composer (1879-1970) does not avoid sumptuous chordal combinations—indeed the warm, mazy seventh chords lend an occasional aura of Gershwinque blues—he tends toward spacious open intervals—lots of ninths, for instance—repeated, inverted, and varied in hypnotic sequences that give the concerto a very airy quality. This quality is reinforced by the subtle instrumental contrasts; the strings and winds, for example, are assigned rather warm material, while the piano and such instruments as the glockenspiel and celesta frequently provide what Christopher Palmer refers to in his excellent liner notes as "cool jadelike sonorities."

The piano's role is more functional than virtuosic, and John Ogdon admirably defines and blends his essentially coloristic material. It is easy to hear why the late Bernard Herrmann was attracted to this work, which he conducts with such an obvious love of the myriad tone colors that even small modifications are felt as warm musical surprises. There are those who will find the piece mannered, but the manner so thoroughly captivates me that I cannot imagine it not acquiring numerous admirers in this country.

R.S.B.


Scriabin intended to produce a work entitled Mysterium, the "Prefatory Action" of which was to be performed in a specially constructed auditorium with massive plays of colored lights, blending performers and spectators into a continuum. The goal of a performance of the entire Mysterium, lasting a symbolic seven days, would be, as...
Faith Bowers points out in the jacket notes, "the general enlightenment of mankind."

The composer was barely into the project when he died in 1915, leaving behind some thirty pages of text for the "Prefatory Action" and fifty-three pages of musical sketches, including references to earlier compositions. There was, then, no real question of "completing" the work. Yet the Soviet composer Alexander Nemtin (who was born in 1936 and has produced some interesting non-Scriabin-oriented works) using the existing materials, his thorough knowledge of the idiom, and his obviously profound identification with Scriabin's musical and extramusical vision, put together a number of similar characteristics: the wordless chorus toward the end) and have recorded (large orchestra, solo piano, organ, a diaphonies and contractions of tonal space, the last five piano sonatas, for example), Scriabin's development after Prometheus (in which I can imagine a more vital in- terpretation and I am disappointed that the high points of the suites, there is a genuine unity to the work as a whole, and the familiar sections acquire greater signifi- cance in their original context.

From the standpoint of history, the indispensable version of the complete Firebird is Ansermet's last one, with the New Philhar- monia, issued with a remarkable rehearsal record. Stravinsky's own version (Columbia MS 6328) imposes a cool, neoclassical manner more appropriate to his later works than to this first flowering. Dorati (Mercury SRI 79058) and Boulez (Columbia M 33306) share Stravinsky's super-cool approach, and Ozawa (Angel S 36810) must contend with the mediocre playing of the Orchestre de Paris.

For Haitink the links to impressionism are more important than those to the Russian school, making his performance kin to Ansermet's. Ansermet is a little more Russian and romantic, but Haitink's very French treatment of colors, textures, and moods is filled with a sense of the exotic. (I wish, however, that the famous string gliss- anders in the Introduction were more forcefully achieved.) Combine this with ex- cellent recording, and you have one of the most unabashed romps of voluptuous sen- suality to appear on discs this season. In short, Haitink's Firebird is as impressive as his Rite of Spring (6500 482, April 1974) and Petrushka (6500 458, October 1975). R.C.M.

The complete Firebird shows signs—including three new recordings in as many years—of making itself heard over the suites later prepared by the composer. While not every page of the complete 1910 score is equal to the high points of the suites, there is a genuine unity to the work as a whole, and the familiar sections acquire greater significance in their original context.

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by large on a par with Paita; there is no sense that the conductor is preventing them from giving first-rate performances. Tenor Carlo Bini, to begin with, is technically uncertain and stylistically provincial. His tonal quality is uneven, his legato intermittent, his intonation—especially in soft passages—unsure. His top notes are raw and often strangled. Bass Hans Sotin, like the rest of the quartet a more estimable singer than Bini, is here quite out of his element: He lacks the technique, the timbre, and the instinct for Italian music. The end result is all asperities and ugly portamentos.

The women are just as much at sea. Josephine Veasey, though she sounds insouciance when singing softly (the Agnus Dei, for instance), does not begin to measure up to the grandeur of Verdi's conception. Heather Harper too is no Verdian: Her top is thin, often spread in quality, and not entirely reliable in pitch, and she lacks substance in the middle and lower registers. Finally, the four voices do not blend at all, as a passage like "Salve me, fons pietatis" makes plain.

The London Philharmonic Choir is weak in basses but is otherwise proficient. Very Royal Philharmonic's strings sound scratchy. There is, however, some good wind playing to be heard. The recording is strikingly spacious and clear—the latter a produced, an attraction we accept as fact primarily because we know she's the soprano and he's the tenor (like those passionless screen romances between Doris Day and Gordon MacRae). It takes a Melchior to lift the Grail Knight above the level of a priggish Boy Scout, a Lotte Lehmann to kindle a visionary streak in Elsa that will raise her from mindless ninnynoom (and, in the last act, shrug off that nightmare woman's presence). One can only hope that this rarefied musical atmosphere will not be left behind when the audience is audibly active only during the preludes; when action begins on-stage, the audience is unsettled. (This was, I believe, his first season back in the lower registers.)

Of the "Confutatis maledictis" is all aspie

tures and ugly portamentos.

On the other side of the coin, of course, there is the vivid depiction of Ortrud and Telramund, who make the second act really go. And there are fine things in the scoring, from the divided strings of the Prelude (not only the ethereal effects at the start, but the rich contrapuntal impasto that develops later on) to the massed sonorities of the cl

maxes. With the right cast and a savvy conductor, Lohengrin is still able to make a good effect.

Alas, no recording to date has managed a really all-round cast, and few have been led with real distinction. If we could combine the conducting of Kempe (in his 1951 Urana set, far more alive than the later Angel) or Kubelik or even Keilberth with the Elsa of Steher (Richmond) or Grummer (Angel); the Ortrud of Klose (on Preiser, Urania, or the old RCA), the Telramund of Chillinghamer, the Varnay (DG's Bohm edition) of Ortrud (Angel); the Lohengrin of Melchior (only on private discs, unfortunately), the Telramund of Metternich (old RCA) or Stewart (DG); and the King of Ridderbusch (DG), then we would have a real performance. But we can't do that, and so we must pick and choose among imperfections, partial views of the work.

The "new" Philips set doesn't really change that picture. It dates from 1982, the same year as the Sawallisch Tannhäuser (not now available here) and the Knapperturfs Musikalische Gruppe. It is apparently released at this late date to complete a Philips Bayreuth centennial package (with the loan of DG's Bohm Tristan) for the luxury trade at this summer's festival.

It's not a bad job—certainly much more successful than the recent Meistersinger from the 1974 festival. S

awallisch gets good playing and acceptable choral singing. He keeps the piece moving and pointed toward destinations, if without the expansiveness of Kubelik's reading.

Unfortunately, Sawallisch also makes some cuts—not indefensible under reperatory conditions, but deplorable in a recording, especially one hearing the Bayreuth imprimatur. The most serious is the standard cut in the final scene, from Elsa's line following the Grail Narrative to the reappearance of the swan. The same abbreviation was made recently by Seefried in his RCA, and the old DG set led by Leinsdorf. Various nibblings at the Mön

icher responses to the Hiltl in Act II are also taken (in Chuch and Kempe/Urania male similar, though not identical exci

tions, as well as other hits too trivial to enumerate, too pointless to have made in the first place. The omission of the second half of "In fernem Land" is authorized by Wagner and followed by everyone except Leinsdorf, in his deleted RCA set, but the cut is made here in a nonstandard way. With all this, a few hits on four discs, as against the five of the going competition—though, if economy is an overriding consideration, Richmond's mono recording has almost as many tangible musical merits as any of the others.

Two members of the Philips cast stand out. Along with a beautiful voice, Franz Crass brings to the King's material a lively delivery and warm tone. This last is very much to the point, for this purely ceremonial figure ought to sound like a Good Guy even though his music gives him little specific help in this direction: the more usual Hagen sound is dramatically counter-productive. As in the 1953 Bayreuth set, Astrid Varnay is a compelling Ortrud, a figure of much more authority and convincing nastiness. Every line has real point, and even the now rather more evident edge and quaver in the voice are put to good use in the characterizing.

Not without interest is Anja Silja's Elsa. She was twenty-two when this recording was made and could sing "Euch Lüften" with a virginal freshness that is very special and most moving. Still, that doesn't mean the role's other demands. At all times, Silja operates with intelligence and musicality—only the voice didn't lose focus and preciseness of higher voice, with the result that no really any number of climactic passages. Her light voice does handle the many turns and shades of Elsa's lines with unusual fluency.

Opposite her, Jess Thomas is pretty reliable (though not as consistent as under Angel's studio conditions) and stolid. Even through the top of the voice there then a ring that is now gone, there isn't much uplift in his delivery, much spontaneity or thrust of rhythm.

Ramon Vinay ought to have been a more memorable Telramund, as a de-converted Heldentenor, he has the top notes for the part but seems rhythmically and tonally unsettled. (This was, I believe, his first season back in the lower registers.) To say that Tom Krause is better than ever is a compliment, but we should be grateful for even that.

The Bayreuth Festival Chorus and Orchestra, Wolfgang Sawallisch, cond. PHILIPS 6747 241, $31.92 (four discs, manual sequence) [recorded live at the 1962 Bayreuth Festival].


For all its popularity of yore, now somewhat atabed, Lohengrin is probably the least satisfactory of Wagner's mature operas. An inordinate amount of time is consumed by "public music": those two non-people, the King and the Herald, moulding proclamations in rather undistinguished recitative. The mail choir responding in Weberian accents, the whole apparatus all too frequently dragged back into C major by peremptory fantasies. It doesn't help, either, that every bit of the music we accept as fact primar

arily because we know she's the soprano and he's the tenor (like those passionless
The tape deck

by R. D. Darrell

New DGs: the rhapsodic Liszt. Lacking the new series of London musicassettes processed overseas by British Decca (not by Ampex in this country), the headline tape newsmaker this month is the Deutsche Grammophon/Archiv release of six more Prestige Box sets and twenty new cassette singles. Most impressive is the oversize box of Karajan's nine Beethoven symphonies with the Berlin Philharmonic (DG 3378 001, six Dolby-B cassettes, $47.88). But since these c. 1963 recordings are already so well known in earlier reel and non-Dolby cassette formats, and since I'm currently preoccupied with solo instrumental and chamber music, I'm giving precedence to a tape first: the DG box of all nineteen Liszt Hungarian Rhapsodies plus his Spanish Rhapsody as played by the Brazilian pianist Roberto Szidon (3371 018, three Dolby-B cassettes, $23.94).

Contemporary connoisseurs tend to sniff superciliously at any suggestion that these presumed hackneyed, vulgarly gypsyish showpieces can be taken seriously. But if so pejorative a judgment is not entirely unjustified in the case of a few warhorse rhapsodies, it's not fairly applicable to the other, less familiar ones in the original set of fifteen composed when Liszt was in his thirties, and it doesn't apply at all to the poignantly haunting or infectiously vivacious last four rhapsodies written nearly forty years later near the end of the composer's life. There are depths here that Szidon does not plumb, but he plays with immense bravura (if also some heavy-handedness, and -footedness on the damper pedal) and the recording is appropriately grand and ringingly sonorous.

Inner sanctum chamber music. For most connoisseurs, the closest they ever come to heaven on earth is in listening to Mozart's string quintets and wind-string quintets and quartets. The only controversy is whether the partisans of the former approach will rejoice in the resurrection of the original 1960 recording proves to be so warm and vital sonorously that I don't hesitate to recommend it to any listener. The rhapsodic Liszt. Lackingsome recognizes the incomparable Franck violin sonata—which, once over the initial shock, proves to be miraculously effective music in its own quite different right. At least it seems so when played as persuasively as it is by James Galway and Martha Argerich (RCA Red Seal ARK/ARS 1-5095, cassette/cartridge, $7.95 each). Appropriately enough, the early Copkoff Flute Sonata in D. Op. 94—one of the Russian's most effervescent yet also most hauntingly songful works—is often heard and recorded in the composer's own violin/piano edition. But none I know is as exciting or as magnificently recorded as this one. Alas, none I know is as exciting or as magnificently recorded as this one. Alas, RCA's spoilsport editor is up to his dirty tricks again, breaking the Franck finale less than a minute and a half from its end to leave the booted conclusion for the B side. Imagine such an atrocity on discs! But on tape, who (at RCA anyway) cares?

New Archives: back to (Walcha's) Bach. By today's more vigorous and incisive executant fashions, the strained dynamics and registrations of the blind German organist Helmut Walcha may seem unexciting. But many older listeners, remembering his yeoman services to Bach in the late mono and early stereo eras, will welcome the tape Vol. 1 of his complete Bach organ-works series (Archiv Box 3376 004, 3 Dolby-B cassettes, $23.94). Recorded over the years 1956-70, the selections here represent both Walcha's Alkmaar and Strasbourg sessions. From the former are the Fantasias and Fugues, S. 537, 542, 562; Fantasia, S. 572; Passacaglia, S. 582; Toccatas and Fugues, S. 538, 540, and 565; and Toccata, Adagio, and Fugue, S. 564. From the latter are the Preludes and Fugues, S. 532, 535, 536, and 550; the Pastorelle, S. 590; and the "little" C minor Fugue, S. 578. turn to tape, after too long an absence, of the famous Griller Quartet/Primrose Vanguard versions of Mozart's last four string quintets—this time in G's new, 4/2-channel-compatible cartridge format (discussed last month), bargain-priced at only $4.95 each. So far I've heard only the K. 515 Quintet in C (Vanguard Everyman/GRU E 3184-15802), but its resurrection proves to be so warm and vital sonorously that I don't hesitate to recommend it to any listener. The rhapsodic Liszt. Lackingsome recognizes the incomparable Franck violin sonata—which, once over the initial shock, proves to be miraculously effective music in its own quite different right. At least it seems so when played as persuasively as it is by James Galway and Martha Argerich (RCA Red Seal ARK/ARS 1-5095, cassette/cartridge, $7.95 each). Appropriately enough, the early Copkoff Flute Sonata in D. Op. 94—one of the Russian's most effervescent yet also most hauntingly songful works—is often heard and recorded in the composer's own violin/piano edition. But none I know is as exciting or as magnificently recorded as this one. Alas, none I know is as exciting or as magnificently recorded as this one. Alas, RCA's spoilsport editor is up to his dirty tricks again, breaking the Franck finale less than a minute and a half from its end to leave the booted conclusion for the B side. Imagine such an atrocity on discs! But on tape, who (at RCA anyway) cares?

The technically even more scintillating Schwarz is also represented by older and newer programs. The former is his fine set of five Frescobaldi canzones and six Fontana sonatas with bassoon-and-harpsichord continuo (Desto X 46461, $7.95). The latter is the dazzling "Festival of Trumpets" collection (disc review February 1975) in which he leads an ensemble of top-notch trumpeters, with timpani and harpsichord/organ continuo, in fascin-
Who's #1 in audio equipment?

Three famous national component brands, each with fine equipment at all the traditional price points, each with fine magazine ratings and lots of customers. Naturally we at Radio Shack like to think Realistic* is top dog. Our reasoning goes like this:

Realistic has over 4600 stores—the entire worldwide Radio Shack system—and 21 years of manufacturing experience. Realistic has exclusive Glide-Path* and Auto-Magic* controls. An audio consultant named Arthur Fiedler. Service like no tomorrow. And prices like yesterday.

Maybe a better question is who's #2?

Maria Muldaur first got attention with an off-the-wall and appealing hit single titled "Midnight at the Oasis." Both singer and contemporary work such as the songs of Wendy Waldman, particularly "Back by Fall," beautifully arranged by Howard Johnson.

Maria Muldaur seems to be handling her life as an artist about as well as anyone could, presenting stable, well-produced, and tasteful albums. She seems a little less personal sound, and she takes far more chances with it than many of her contemporaries. While she charms on traditional material, for me she is most real on sensitive contemporary work such as the songs of Wendy Waldman, particularly "Back by Fall," beautifully arranged by Howard Johnson.

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Gary Stewart's debut LP, "Out of Hand," introduced to the public a young performer with three Top 10 country-music singles to his credit and one who not only could captivate the country-music audience, but also had the potential to conquer the much larger—and far more lucrative—rock-music market. Stewart's approach of taking honky-tonk and giving it the rock-a-billy sound proved to be "country" enough for country fans and rocked enough for those rockers who were willing to give it a chance.

"Steppin' Out" provides another attractive sampler of this approach. Here Stewart performs eleven selections drawn from Southern rock artists like Charlie Daniels, honky-tonk greats like Lefty Frizzell, and country-music "outlaws" like Willie Nelson, as well as four songs that Stewart wrote or collaborated on.

A masterful vocal approach marks his reading of all the lyrics on this album. The words are essentially sentimental, and Stewart has the ability to project the proper air of mournfulness they demand, along with the strength. In addition, this disc is highlighted by a demonstration of polished instrumental musicianship.

"Steppin' Out" is slicker than "Out of Hand." It's also less interesting. But Gary Stewart is a potent rock-flavored country talent—there's no denying that.

H.E.

ENO: Another Green World. Brian Eno, guitars, keyboards, percussion, and synthesizers; strings, keyboards, rhythm, and percussion accompaniment. Sky Saw; Over Fire Island; In Dark Trees; nine more. [Brian Eno and Peter Schmidt, prod.] ISLAND ILPS 9351, $6.98. Tape: Y1 9351, $7.98.

Eno, formerly of Roxy Music, has set out on his own to make avant-garde rock music discs that depend upon improvisational music-making and peculiar recording and mixing techniques to achieve their effects. The results have been uneven—amateurish on the one hand, intriguing on the other, especially when Eno substitutes cleverness for the chance happenings that usually occur in the recording studio.

"Another Green World." Eno's latest, is his most accessible to date. Mostly instrumental, the disc features a great many melodic themes, some of which are classically oriented. If this is what the rock avant-garde is coming to, it's a pleasant step forward (or is it backward?). Obviously, no matter what Eno does, he will always be something of a card.

H.E.


Rolling Stones bassist Bill Wyman, in his second solo outing, has come up with a carefully crafted LP that features guest appearances by Ruth and Bonnie Pointer, the Tower of Power horns section, Van Morrison, Dr. John, Joe Walsh, and Al Kooper, among others.

He tackles golden oldies ("A Quarter to Three"); the blues ("Every Sixty Seconds"); rockers ("Get It On"); as well as comic material ("Peanut Butter Time") and other diversified examples of pop and rock forms. The musicianship is expert, but the effect is still wildly uneven. Wyman is an uninspired though earnest player and vocalist. "Stone Alone" is an earnest but uninspiring disc.

H.E.

Good Rats: Rat City in Blue. Peppi Marchello, vocals; John Gatto and Mickey Marchello, guitars; Lenny Kepke, bass; Joe Franco, drums. Does It Make You Feel Good; Boardwalk Stasher; Rat City in Blue; Feel Good in Bad Times; Rat City in Blue; nine more. [John S. Wilson, prod.] APOLLO LPS 79103, $6.98. Tape: CS 79103, $7.97. TP 79103, $7.97.

The Good Rats are an obscure Bay Area outfit that occasionally has a pleasant moment in the sun. Despite a sometimes uneven mix, they're still a fun band. The problem is that their sound is not as distinctive as their energy, and that's where a lot of the potential of this disc is lost.

H.E.
This is the Good Rats' first album on its own label (a division of All-Platinum Records). Like its predecessor, "Tasty," "Rat City in Blue" is a compelling combination of witty, cutting lyrics and virtuoso playing—the same combination that makes this band legendary on its native Long Island.

The Rats' heart and soul is lead singer/songwriter Eppi Marchello, a stocky character with a voice akin to the sound of a basso profundo chicken being chased by a steamroller. His grating voice is a fine match for the antics of guitarists John Gatto and Mickey Marchello, who fuse vicious rock and free-flowing jazz styles for a unique dual-guitar approach. Bassist Lenny Kolke and drummer Joe Franco (a Carmine Appice graduate) provide a driving rhythmic base for the guitar and vocal flights.

What sets this group apart from your average competent hard-rock quartet is Marchello's ability to infuse his songs—even his hard rockers—with melodic hooks that make each one instantly memorable. The material runs the gamut from intense, psycho rockers ("The Room," "Hourglass") to lighthearted romps fit for Top 40 radio ("Almost Anything Goes"). In between are odes to or about Spencer Tracy, the Village Voice personals column, Hitler, boardwalk slashers, femme flashers, and George Gershwin.

The musicianship here is way above average, the result of playing these songs five hours a night, five nights a week, for the past half-decade. Rock fans may find the average competent hard-rock quartet is Marchello's ability to infuse his songs—even his hard rockers—with melodic hooks that make each one instantly memorable. The material runs the gamut from intense, psycho rockers ("The Room," "Hourglass") to lighthearted romps fit for Top 40 radio ("Almost Anything Goes"). In between are odes to or about Spencer Tracy, the Village Voice personals column, Hitler, boardwalk slashers, femme flashers, and George Gershwin.

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"Smile," and they are fairly typical of her work, leaning heavily toward the sort of offhand melancholy that so often occurs when a songwriter stays up too late in the company of a piano. The same sort of sensibility that created Harold Arlen's "One for My Baby" is responsible for her "I Am the Blues," "Midnite Blue," and "Stormy Love." But "One for My Baby" includes a coherent story, while most of Nyro's songs prowl through a landscape filled with cigarette butts, departed lovers, wisps of smoke, and wine glasses in search of a point. Seldom do they find it. And while she is capable of a clever turn of phrase, she often will spoil it by dropping in a horrid line like "our love is a peace vibe."

I find it difficult to ignore bad or pointless lyrics, especially when the artist is being libelized as a lyricist, poet, or something of the sort. However, anyone who doesn't listen too carefully might find this an agreeable recording. Nyro sings well, and she is accompanied by a sterling array of New York studio musicians.

ESTHER PHILLIPS WITH BECK: For All We Know. Esther Phillips, vocals; Joe Beck, guitar; Don Grisolnick, Bobby Lyle, and Leon Pendarvis, pianos; Gary King and Bill Lee, basses, Andy Newmark and Chris Parker, drums, vocal and instrumental accompaniment. Unforgettable: For All We Know; Pure Natural Love; Fools Rush In, Going Out of My Head, Fever, Caravan. [Creed Taylor, prod.] KUDU KU 28, $6.98. Tape: $6.98. In all, M.J.


"We're Children of Coincidence and Harpo Marx" is the first disc that Dory Previn has made in New York, her first with producer Joel Dorn, and her first to be fully orchestrated. On all counts, they have meshed beautifully. This recording is a remarkable demonstration of Previn's provocative writing and singing talents. Launching the disc with "Children of Coincidence," a song in the Brecht-Weill mode, she sings: "Crossed connections, lost connections/Empty corners, crowded intersections/Accidents and incidents/We're children of coincidence and chance." It's an uncanny, accurate, whimsical, and yet painful perception, and that kind of quirky writing is echoed over and over again on this LP. On "The Comedian," for instance, a number set to spooky calliope rhythms (and a striking example of how full instrumental and a carefully crafted arrangement can brilliantly amplify a Previn song), she says of the comedian, "But apart from the skits/And comical bits/Is there anything down deep inside?" The tune ends with a chant of "More more more!" that runs down as the audience, the life of the comedian, the song itself, and the calliope effect come to a halt.

Bravo for an original, totally realized recording! H.E.
JUNE 1976

ARGENT: The Argent Anthology: A Collection of Greatest Hits. Rod Argent, Russ Ballard, Robert Henrit, and Jim Rodford, vocals and instrumetals. God Give Rock and Roll to You, Hold Your Head Up, I Like You, Hold Out Your Hand, the album's opener, and the race is on. Stanley Clarke builds into Hold Out Your Hand, the album's opener, and the race is on. By the time the disc ends, Squire has evidently changed the attitudes of a horde of listeners about the role of the electric bass in modern progressive popular music. His sharp, piercing tone and indefatigable energy on Electric Guitar are legendary, and his bass playing is without equal.

CHRIS SQUIRE: Fish out of Water. Chris Squire, basses and twelve-string electric guitars, horns, keyboards, strings, synthesizers, and orchestral accompaniment. Hold Out Your Hand, You by My Side, Silently Falling, two more. [Chris Squire, prod.] ATLANTIC SD 18159, $6.98.

Yes's bassist Chris Squire has single-handedly changed the attitudes of a horde of listeners about the role of the electric bass in modern progressive popular music. His sharp, piercing tone and indefatigable energy on Electric Guitar are legendary, and his bass playing is without equal. The album is properly named: Nick Holmes is a "Soulful Crooner." He has sat on a pillow in a room somewhere and done some music, and almost nobody got in-domain. But that is, I hope, only the short view. Love is like a bubble. If you push it down at home, it tends to pop up again across town-only the bedroom changes. Talent is like that too. We will hear from Holmes again one of these days, from the other side of town.

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A respectful acknowledgement goes as well to all the musicians, engineer Jay Messina, and graphics designers Ron Levine, and graphics designers Ron Levine, Lynnwood, Washington 98036.

Hirsch Houck Labs put it this way in Stereo Review: "A good preamp should be seen and sound, its humanness, its ease. His music has sadness and flow and honesty. It feeds what wants to be fed by those of us trying to survive with some grace amid the roars of tension. The album is properly named. Nick Holmes is a "Soulful Crooner." He has sat on a pillow in a room somewhere and done some music, and almost nobody got to hear it. But that is, I hope, only the short view. Love is like a bubble. If you push it down at home, it tends to pop up again across town-only the bedroom changes. Talent is like that too. We will hear from Holmes again one of these days, from the other side of town.

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While all of "How Dare You!" is inspired zaniness, two cuts, for my money, count as standouts. 'Art for Art's Sake' has a lyric that goes: "Art for Art's sake/Money for God's sake... Money talks, so listen to it/ Money talks to me/ Anyone can understand it/Money can't be beat/Oh no..." "I Wanna Rule the World" begins: "I wanna be a boss/I wanna be a big boss/I wanna boss the world around/I wanna be the biggest boss that ever bossed the world around..."

Never an anachronism been so melodious.

H.E.

HENRY GROSS: Release Henry Gross, electric and acoustic guitars and vocals, rhythm, strings, keyboards, horns, and vocal accompaniment. Juke Box Song, Lincoln Road, Overton Square, seven more. [Terry Cashman and Tommy West, prod] LIFESONG LS 6002, $6.98.

Guitarist/composer/vocalist Henry Gross does everything and does it with finesse. That finesse, however, has a tendency to disguise the thinness of a great many of Gross's songs. On this disc, for example, the multitalented musician dishes up a collection of rockers, ballads, folk narratives, rock-blues, and country-rock, among other things. It's an impressive display, but too many of it sounds borrowed and then polished up rather than refined in an original way. In addition, "Moonshine Alley," an intense, melodramatic musical "legend," is more silly than anything else.

Still, Gross does have plenty of evocative guitar lines at his disposal. With the exception of "Baby, You're Lost in My Love," he is a solid romantic singer who is also up to the demands of rock screaming, and his tunes, when they work, all have the sound of hits. Under the auspices of producers Cashman and West, one suspects that Gross is starbound. He has the skills—now he has to make those skills come together.

H.E.

CAPTAIN AND TENNILLE: Song of Joy. Toni Tennille, vocals and keyboards; Daryl Dragon, guitar, synthesizers, strings and horns accompaniment. Muskrat Love; I'm Gonna Be a Big Boss; Bighorn Blues; Eight Eight Eight. [Captain and Tennille, prod.] A&M SP 4570, $6.98. Tape: CS 4570, $7.98.

This is the happy couple who won a Grammy for "Love Will Keep Us Together." Toni Tennille is fast acquiring an image as a sunny, down-home person, while her partner/husband, Daryl Dragon, who is called the Captain, is the family spacer. (Be careful what image you wish for; you may get it.)

The Captain and Tennille have had an authentic meteoric rise in the record biz, based on breezy, upbeat songs (the one exception is a lovely ballad by Tennille called "The Way I Want to Touch You"), tastefully presented. As their career develops, one begins to see how the two talents break down and how expertly they fit with one another. Tennille is a surefooted, smooth, and musical singer, an able piano accompanist for herself, and a capable songwriter. Dragon, son of Carmen, is a key-board player who seems most at home in the rock and roll styles of the Fifties and Sixties. He is able to operate in other styles as well, he provides some cute synthesizer sounds on tunes such as "Muskrat Love" and rather unimaginative orchestral arrangements.

One is tempted to say that it is the lady who provides the duo's basic energy and homey pizzazz, but care must be taken. Nobody knows how the real chemistry works between people.

Like the Carpenters, whose label and distribution setup they already share, the Captain and Tennille come across more as first-class entertainers than as artists. Fortunately they are in a business that has room for both.

M.A.

TELLY SAVALAS: Who Loves Ya Baby. Telly Savalas, vocals and instrumental accompaniment. This Is All I Ask; Who Loves Ya Baby; Nevertheless (I'm in Love With You); Gentle on My Mind; The Men in My Little Girl's Life, Time, three more. [Maurice Laird, prod.] Canada 2160, $6.98. Tape: CS T 2160, $7.98.

Oh, really now. Everybody knows Telly Savalas can't sing. At the very least, everybody knows Telly Savalas shouldn't sing—but he does. Well, if Jim Nabors and Dennis Weaver can do it, why not?

"Who Loves Ya Baby" is a case study in middle-of-the-road recitative. The songs are inclined heavily toward the sort of philosophy espoused by Frank Sinatra and at least a hundred thousand cocktail-lounge singers in "My Way." The opening tune, "Gordon Jenkins' "This Is All I Ask," is a virtual brother of "My Way." Throughout the LP, Savalas half talks and half sings, all to the accompaniment of lush orchestral treatments and a strangely out-of-place soul vocal trio. There are occasional criminological references, and on "Nevertheless" the accompaniment includes a
Tracking is just the beginning.

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Micro-Acoustics 2002-e cartridge.
Because good tracking isn't enough.
laughing woman and the clinking of ice cubes in a glass, which is appealing in the way that beer cans printed with a Bicentennial motif are appealing.

I'm not sure that this is something I would dare feed to a $900 Marantz. One doesn't, after all, invite Craig Claiborne to dinner at Taco Bell—at least not often. But Telly Savalas as a singer does have a certain campy charm.

M.J.

VICKI SUE ROBINSON: Never Gonna Let You Go. Vicki Sue Robinson, vocals; Bhen Lanzaroni, keyboards; Stuart Woods, bass; Dick Frank and Bob Rose, guitarists; Roy Markowitz and Jim Young, drums; Carlos Martin and Ray Armando, conga drums; vocal and instrumental accompaniment. Turn the Beat Around, Common Thief, Never Gonna Let You Go, Wonderland of Love, We Can Do Almost Anything, Lack of Respect, two more. [Warren Schatz, prod.] RCA APL 1-1256, $6.98. Tape: °° APK 1-1256, $7.95. °° 1-1256, $7.95.

"Never Gonna Let You Go" is the recording debut of Vicki Sue Robinson, a former Philadelphian who spent the past few years singing on and around Broadway in such shows as Hair and Jesus Christ Superstar, as well as in various New York clubs and coffeehouses. Her current manifestation is as a disco singer, and it's a role that she wears well.

Robinson has a tense, expressive voice, one that does not succumb to the incessant beat and bank of instruments behind her. Warren Schatz provided arrangements that, while complex, do not overwhelm the singer. The material is by and large newly written, apparently for Robinson. The songs are fairly standard disco stuff—love lyrics set to a moderate tempo and embellished with a lot of background vocals, most of them overdubbed by Robinson.

Disco singers are as common in New York as pigeons and budget crises, but Vicki Sue Robinson is better than most of them. She is a welcome arrival.

M.J.


Over the past few years, Chet Atkins has recorded a series of duets with other guitarists. RCA released several LPs detailing his musical battles with Jerry Reed, as well as a record of his collaboration with Merle Travis. All of these were nothing short of brilliant, and that is again the case with "Chester and Lester."

Two more diverse styles would be hard to find. On one hand, there is Les Paul, full of "gypsy fire," notes flying from his fingers with the rapidity of numbers flowing from an IBM computer. On the other hand, there is Chet Atkins, restrained and dignified. The mixture of the two on such standard tunes as "Caravan," "Moonglow," "Avalon," and "Birth of the Blues" is a milestone not only in musical ecumenism, but in entertainment as well. With a loose, laid-back Nashville studio band behind them, the two gentlemen take their material and work magic upon it. It's been a long, long time since I've heard a version of "Birth of the Blues" as moving as this one. The same may be said for any and all of the other selections here.

I don't know how they got their different styles to merge. Perhaps genius of the type Atkins and Paul have is always mutually attractive. One thing is certain—they seem to have had fun recording this album. Both in the music and in their offhand, between-song comments, some of which are included as informal footnotes, a great deal of joy shines through.

M.J.
haunting themes I have ever heard. Lambert allows his music to build toward its tragic conclusion with utmost subtlety, thereby causing the listener to feel the dramatic tensions and progressions with particular intensity.

The other long suite on this disc is the Arthur Bliss Things to Come (1936), composed hand-in-hand with H.G. Wells for his pioneering science-fiction film. The Bliss score hardly has the whirl and wobble one has to expect from sci-fi scores, but this is all to the good. For there is something quite stark and ominous about the future bleakness of the music, which, by not departing very far from familiar idioms, makes the grim mechanization promised by the film felt more closely than one might choose.

Also welcome is the heroically elegiac prelude composed by Ralph Vaughan Williams for The Forty-Ninth Parallel (1941), also known as The Invaders. The ballet music William Walton composed for his first film, Escape Me Never (1935), exudes the bach-ish scherzo from every note without ever sounding typical of him. The "Pagin's Romp" sequence played by Arnold Rax for David Lean's Oliver Twist (1948) smacks strongly of Mahler with just a dash of Shostakovich, at least as conducted here by the late Bernard Herrmann (whose devotion to film music went well beyond his own pioneering scores); the finale, on the other hand, is pure English grandeur. Only own pioneering scores); the finale, on the other hand, is pure English grandeur.

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As usual, Herrmann's tempos occasionally tend toward the sluggish, as in the Walton and parts of the Bliss. But it is perhaps this deliberateness that allowed him to concentrate so beautifully on sonority, whether in the organlike chords closing the Vaughan Williams or in the gorgeous tone poem American in Paris, West Side Story, and Oliver! This inspired score is thematic in orientation but, via its harmonic and instrumental coloring, immeasurably adds to the emotional perspectives revealed in Raintree County's story, set in Indiana during the Civil War.

The main theme is a soft-hued, autumnal tune that immediately shifts the movie's emphasis from the epic to the more intimate, psychological atmosphere of its symbolic drama, which centers around a mythical "Raintree" that becomes a kind of pure, mysterious haven lost and subsequently regained by the hero, Johnny (Montgomery Clift). First heard on these discs in a pop-sounding choral setting with lyrics by Paul Francis Webster, the theme has the strongest impact when used later in the nonchoral settings, often highlighted by a harmonica solo.

But this expansive score features a broad spectrum of themes, and the diverse melodies interweave and contrast with one another in a highly pleasing manner. One of the most delightful tunes is the one, almost always played by the banjo, belonging to Flash Perkins (Lee Marvin). More intriguing—and more achingly moving—is the love theme for Johnny and Susanna (Elizabeth Taylor), first presented as a counterbalance to the glitter of the overture's opening strains. In brutal contrast to the mellow romanticism suggested by the love theme are the weird, disjointed leaps representing the old mansion and, by extension, Susanna's madness.

So beautifully are these poignant contrasts communicated, that this recording should provide a profound experience even for those who have not seen Raintree County. For those who have, the effect should be devastating. R.S.B.

\[ R.A.C. \]

\* Raintree County. Original film soundtrack recording. Composed and conducted by John Green. (John Steven Lasher, prod.) Entr'acte Recordings Society ERS 6503 ST, $15.95 (two discs, manual sequence).

The outstanding film score for Raintree County, composed by John Green, appeared on disc but has been out of print for some time. Entr'acte's two-disc set is not exactly a reissue, since the initial RCA Victor album (LOC 6000) was in mono only. Entr'acte was given access to the original stereo master. If the recorded sound is not absolutely sharp, it is nonetheless quite decent, especially considering the film's age.

Something of a cult has been built around this music. (Collectors were paying as much as $150 for the original album.) Its excellence is rather surprising in view of the fact that it is the original score of any note composed by Green, then still known as Johnny Green, the director of MGM's music department in the 1950s and the arranger for such film musicals as An American in Paris, West Side Story, and Oliver! This inspired score is thematic in orientation but, via its harmonic and instrumental coloring, immeasurably adds to the emotional perspectives revealed in Raintree County's story, set in Indiana during the Civil War.

The main theme is a soft-hued, autumnal tune that immediately shifts the movie's emphasis from the epic to the more intimate, psychological atmosphere of its symbolic drama, which centers around a mythical "Raintree" that becomes a kind of pure, mysterious haven lost and subsequently regained by the hero, Johnny (Montgomery Clift). First heard on these discs in a pop-sounding choral setting with lyrics by Paul Francis Webster, the theme has the strongest impact when used later in the nonchoral settings, often highlighted by a harmonica solo.

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So beautifully are these poignant contrasts communicated, that this recording should provide a profound experience even for those who have not seen Raintree County. For those who have, the effect should be devastating. R.S.B.


I don't remember ever before hearing a record with which I could find no fault whatever. Everybody on this disc is great. You might say that's not surprising when you are dealing with a quartet made up of Count Basie, Zoot Sims, Louis Bellson, and John Heard, a bassist who has helped give Cal Tjader's group some of its better moments. But the fact is that all of these musicians have turned in less than great performances at one time or another. Here everything is working right, and that rightness keeps the musicians in the groove throughout.

I'm ready for that old desert island cliche now, and this record is it. The magic of it is

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Fats Navarro was one of those jazz musicians who established a strong identity but whose death at twenty-seven necessarily left him seemingly unfulfilled. (Suppose Dizzy Gillespie had died at twenty-seven, that, despite the presence of only four musicians and of pieces that vary little in pace, there is so much variety within each of the performances that there is no feeling of being dragged through examples of very able people doing the same thing over and over. This is all light and air; brilliant Basie piano that shades from subtle stride to even more subtle blues; Sims gloriously, upliftingly swinging; and Bellson and Heard in tight behind them in the finest tradition of Walter Page and Jo Jones.

For anyone who has to describe jazz, to illustrate jazz, to explain what makes jazz unique, this is the record to play. If it doesn't work, words won't help.

J.S.W.


Sit Earl Hines down at a piano, let him go—no time limit, no tunes—and you can end up with a full concert. He is, of course, a marvellous stylist, and he has at his fingertips an endless variety of technical ideas to draw on. No jazz pianist executes with the aplomb and polish that he does. (When this can still be said of an artist at the age of seventy, it is remarkable.)

But those are the commonplace aspects of Hines. What is usually overlooked is that he is a brilliant creative melodist. He is credited with quite a number of pieces, but not with the frequency or on the level of the prolific Duke Ellington. When Ellington sat down alone at the piano and extemporized, it was not surprising that typically Ellingtonian melodies came out. But here is Hines, alone at the piano for two full sides, extemporizing through four long pieces that not only involve his full pianistic bag, but keep coming back to original melodies that are utterly charming.

"Look at Me," the opener, is a model of Hines's ability to compose, to improvise, to show off—all at the same time. The tempos change, the styles change, and the basic melody is turned hither and thither (becoming briefly "At Sundown," just to add his fingerprints). The tempos are utterly charming.

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in 1944, when he was in Billy Eckstine's band but before he had formed his own first band.) Yet Navarro left a legend that is largely summed up in the two discs of this album, covering his work from 1947 to 1949 in groups led by Tadd Dameron, Howard McGhee, and Bud Powell.

Navarro's crisp, buoyant trumpet bursts out of most of these pieces (many of them in two takes, which show his ability to rise to greater heights after a superb first solo). Two sides by Dameron bands playing Dameron compositions are of particular interest since he was far and away the prime composer of the top era after World War II. There are interesting glimpses of other musicians in these groups—Ernie Henry, Allen Eager, sounding very Lester Young-ish, and a decidedly young Sonny Rollins.

But the focus stays on Navarro. Every one of his entrances commands a listener's attention.

**The Boys from Dayton.** Snooky Young Septet: Snooky Young, trumpet; Booty Wood, trombone; Norris Turney, alto and tenor saxophones and flute; Richard Tee, piano; Cornell Dupree, guitar; Gery Jemmott, bass; Herbie Lovelle, drums. My Blue Heaven; The Checkered Hat; two more. Norris Turney Quintet: Norris Turney, alto saxophone; Cliff Smalls, piano; Billy Butler, guitar; Al Hall, bass; Mickey Roker, drums. The Seventh Day; A Whole Lot of Sunshine; two more. MJR 8130. $5.50 (Master Jazz Recordings, Box 579, Lenox Hill Station, New York, N.Y. 10021).

Duke Ellington kept bringing exciting new talent into his band right up until the end, an indication that the well of prospective Ellingtonians seemed to have no bottom.

One of the best of the newcomers was Norris Turney, who took over Johnny Hodges' saxophone chair and managed to suggest his predecessor without seeming to be trying to copy him. He used a lot of Hodges touches—little dancing, pushing phrases, a suddenly swelling tone, notes that were stretched and bent. But Turney's tone was not quite as full-bodied as Hodges', nor did he have that innate swagger, so the touches that he borrowed were put in a slightly different context and, consequently, took on a new life.

Turney is heard on one side of this disc as a sideman in the Snooky Young Septet shortly after he joined Ellington in 1971 and, on the other side, leading a group of his own in 1973. So far as I know, this is the first time he has been recorded as a leader, so it is rather strange to find that he gets a better showcasing with Young's group than with his own. With his quintet Turney is heard only on alto saxophone, and of the four selections only "For All We Know"—a very slow, very deliberately stated solo—really comes off. He does not seem at ease so slow, very deliberately stated solo—really comes off. He does not seem at ease on Hodges' "Good Queen Bess," and neither Cliff Smalls on piano nor Billy Butler on guitar is a particularly exciting soloist.

With Snooky Young, however, Turney plays alto, tenor, and flute, contributes a fine riffing arrangement of "My Blue Heaven," and pays his ultimate tribute to Hodges on his own piece, "The Checkered Hat."

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