

4:20-4:40 p.m.

"Integration of Video Tape With Live and Film Programs," by W. W. MALANG, video facilities engineer, ABC and M. C. WORSTER, eastern division manager, television engineering operations, ABC.

This paper is to be presented in two parts. The first will deal with the op-



MR. MALANG



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erational problems involved in integrating video tape into live programming. The "pros and cons" of the various systems in use today will be discussed. The second part will explore the technical characteristics and limitations of the systems used to date



A

- Abbott, Clinton S. Jr., Standard Rate & Data, Skokie, Ill.
- Abel, Charles F., KFMB San Diego, Calif.
- Abfalter, Hugh, WTVF (TV) Decatur, Ill.
- Adams, Irwin S., KGOX Portland, Ore.
- Adams, John, KFDX-TV Wichita Falls, Tex.
- Adams, Mrs. Irwin S., KGOX Portland, Ore.
- Adams, Richard E., WKOX Framingham, Mass.
- Adanti, Paul, WHEN Syracuse, N.Y.
- Adler, Ben, Adler Electronics Inc., New Rochelle, N.Y.
- Albertson, Fred W., Dow Lohnes & Albertson, Washington, D.C.
- Aldridge, Mahlon, KFRR Columbia, Mo.
- Alexander, Arthur, M&A Alexander Prod., Hollywood, Calif.
- Alexander, John, WFLA Tampa, Fla.
- Allerton, Lee W., WOBT Rhinelander, Wis.
- Allison, Duane B., KHAS Hastings, Neb.
- Allison, Milton, CBS, New York.
- Anderson, Albert A., WKOX Framingham, Mass.
- Anderson, Carl Q., KREY Montrose, Colo.
- Anderson, Charles, Ampex Corp., Redwood City, Calif.
- Anderson, Elwood C., WORK York, Pa.
- Anderson, William, WOBT Rhinelander, Wis.
- Andrews, Fred M., WATE-AM-TV Knoxville, Tenn.
- Arkelian, Art, WERC Erie, Pa.
- Armstrong, George W., Storz Bcstg. Co., Kansas City, Mo.
- Arnold, Russ, WTHI Terre Haute, Ind.
- Arnoux, Campbell, WTAR Norfolk, Va.
- Atkinson, Frank, ABC, New York
- Atwood, Jack S., WCSH-TV Portland, Me.
- Aubrey, James T., CBS-TV, New York
- Augsburger, Glen, KMBC Kansas City, Mo.
- Austin, Charles W., WERI Westerly, R.I.
- Avery, Lewis H., Avery-Knodel Inc., New York
- Axton, Bailey, KTOP Topeka, Kan.

B

- Babcock, John B., WLWI (TV) Indianapolis, Ind.

BROADCASTING, March 28, 1960

to integrate video tape with live programming.

4:40-4:50 p.m.

"New IRE Roll-Off as Related to the Broadcaster," by G. EDWARD HAMILTON, director of engineering operations, ABC.

There have been two IRE standards established for the measurement of video levels (1950 and 1958). The advent of color television brought into focus the need for a measuring tool which would evaluate the luminance component of the signal. The 1958 standard was made to insure adequate suppression of the chrominance components thus permitting its use for either color or black and white signals. Application of the new standard has indicated the desirability of its use with a reduction in



MR. HAMILTON

tolerance such as to provide more uniform measurement of video levels.

4:50-5:20 p.m.

"Improvements in Television Cameras," by JOHN H. ROE, manager, tv camera engineering, RCA.

The utilization of advanced circuit techniques and components has made possible significant improvements in the performance of television cameras. Important among the improvements are better stability and reliability which permit simplified operating techniques and less effort on maintenance. In addition, pictures of noticeably better quality are obtained. Development of improved camera tubes is an important aspect of the situation. New equipment embodying these developments will be described.



MR. ROE

ADVANCE REGISTRATION

NAB CONVENTION

- Bacus, Roy, WBAP Fort Worth, Tex.
- Bagwell, Norman P., WKY-AM-TV Oklahoma City, Okla.
- Bahakel, Cy N., KXEL Waterloo, Iowa
- Bailey, Ted, WJBC Bloomington, Ill.
- Bain, David, Programatic Bcstg., New York
- Baird, Robert M., Blackburn & Co., Atlanta, Ga.
- Baisch, Joe, WREX Rockford, Ill.
- Baker, R. Karl, WLBS Jacksonville, Ill.
- Baker, Ron, Fetzer Tv Inc., Cadillac, Mich.
- Balch, Frank, WJOY Burlington, Vt.
- Baldwin, John M., WTCN-AM-TV Minneapolis, Minn.
- Baltimore, David H., WBRE Wilkes-Barre, Pa.
- Bannister, Harry, NBC, New York
- Bantle, Low, Tv Stations Inc., New York
- Bare, John D., WHVR Hanover, Pa.
- Barenbrugge, George, WAMS Wilmington, Del.
- Barnard, A.H., KVAL-TV—KPIC Eugene-Roseburg, Ore.
- Barnathan, Juli, ABC-TV, New York
- Barnes, Arthur, WISN Milwaukee, Wis.
- Barnes, Howard G., CBS, New York
- Barnes, Jerry, WVEC-TV Hampton-Norfolk, Va.
- Barnes, Tom, WDAY Fargo, N.D.
- Barrett, Morton A., The Bolling Co., New York
- Barrett, Mike, KTFY Brownfield, Tex.
- Barry, William O., WFMB Nashville, Tenn.
- Barth, John A., KVOO Tulsa, Okla.
- Bartlett, Marcus, WSB Atlanta, Ga.
- Barton, De Arv, MCA Tv Ltd., Cleveland, Ohio
- Batson, Charles A., WIS-TV Columbia, S.C.
- Baudino, Joseph E., Westinghouse Bcstg. Co., Washington, D.C.
- Baughn, Edward F., WPAG Ann Arbor, Mich.
- Baxter, Lionel F., Storer Bcstg. Co., Miami Beach, Fla.
- Beadell, Walter, Gill-Perna Inc., Chicago, Ill.
- Beard, Fred L., WJDX Jackson, Miss.
- Beatty, J. Frank, BROADCASTING magazine
- Beckman, Alfred R., ABC-TV, Washington, D.C.
- Beemster, Rev. M.J., WBAY-TV Green Bay, Wis.
- Bell, Edgar T., KWTW (TV) Oklahoma City, Okla.
- Bell, Ridley, WRBL-AM-TV Columbus, Ga.
- Bellwood, LeRoy A., KFSD San Diego, Calif.
- Benham, Edward E., KTTV (TV) Hollywood, Calif.
- Bennett, Dale, Radio WTNS, Coshocton, Ohio
- Berger, Lawrence, KTWQ-AM-TV Casper, Wyo.
- Bergquist, P., RCA, Camden, N.J.
- Berkman, Jack N., WSTV-TV Steubenville, Ohio
- Bernard, J.J., KTVI (TV) St. Louis, Mo.
- Berthelson, Fred, WTIX New Orleans, La.
- Bevec, John de, J. Walter Thompson Co., Chicago, Ill.
- Beville, Ross, WWDC Washington, D.C.
- Biggar, George C., WLKB DeKalb, Ill.
- Bignell, Frank, WKOW-AM-TV Madison, Wis.
- Bingham, George W., WGNV Poughkeepsie, N.Y.
- Birke, William D., WSAZ-TV Huntington, W.Va.
- Birnbaum, Philip, Philipburn Adv. Co., New York
- Bishop, J.D., WCTA-AM-FM Andalusia, Ala.
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- Black, Norman D. Jr., WDAY Fargo, N.D.
- Blackburn, James W., Blackburn & Co., Washington, D.C.
- Blackburn, Richard K., WHEC Rochester, N.Y.
- Blackmon, Warren L., WVGC Coral Gables, Fla.
- Blanchette, W.C., KFBB Great Falls, Mont.
- Bland, Al, WLW Cincinnati, Ohio
- Block, Richard C., KHVH-AM-TV Honolulu, Hawaii
- Bloom, J.D., WWL New Orleans, La.
- Bloomberg, Haskell, Lowell, Mass.
- Bloomberg, Muriel, Lowell, Mass.
- Boyd, James E., WEWS (TV) Cleveland, Ohio
- Blue, Paul, KLZ-TV Denver, Colo.
- Blum, Morris H., WANN-AM-FM Annapolis, Md.
- Blume, Jack P., Fly, Shuebruk, Blume & Maguine, Washington, D.C.
- Bogan, Rupert, WBAP, Fort Worth, Tex.
- Boice, Hugh K. Jr., WEMP Milwaukee, Wis.
- Bolling, George W., The Bolling Co., New York
- Bolling, G. William III, The Bolling Co., New York
- Bonansinga, Joe, WGEM Quincy, Ill.
- Bondurant, Hale, KWG Stockton, Calif.
- Bondy, Hugo A., WAGA-TV Atlanta, Ga.
- Booth, Arden, KLWN Lawrence, Kan.
- Booth, John S., WCHA Chambersburg, Pa.
- Booth, Robert M. Jr., WSAL Logansport, Ind.
- Bostic, Tom, Cascade Bcstg. Co., Yakima, Wash.
- Bounty, Glenn G., Storer Bcstg. Co., Miami Beach, Fla.
- Bowen, Dan W., Gill-Perna Inc., Detroit, Mich.
- Bowry, Walter A. Jr., WTVR-TV Richmond, Va.
- Boyd, Raymond, KNOE-AM-TV Monroe, WNOE New Orleans, La.
- Brace, Clayton H., KLZ-AM-TV Denver, Colo.