

SMPTE test films for television



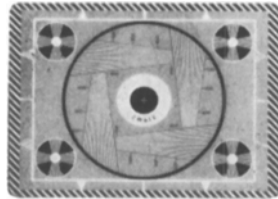
NETWORK, LOCAL, CCTV...

a test film library for engineering and telecine

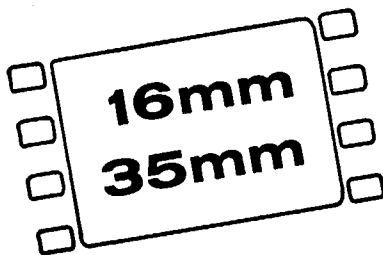
VIDEO TEST FILMS

TEST FUNCTIONS:

- alignment • resolution
- focus • linearity
- low and medium frequency response
- storage and transfer characteristics
- automatic brightness control
- qualitative picture analysis



FOR COLOR TELEVISION

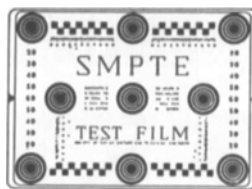


- Grey Scale — for setting-up and adjusting signal generators
- comparative and qualitative test of system's ability to reproduce color
- representative quality Technicolor and Eastman color prints

PROJECTOR PERFORMANCE

Test and Adjust:

- picture steadiness • jump and weave
- shutter timing (travel ghost)
- framing • focusing
- aperture alignment



SOUND REPRODUCTION *optical / magnetic*

Test, Adjust and Calibrate Projector

- scanning beam slit position
- multi-frequency response
- azimuth and focus of sound optical train
- signal level and balancing, output
- flutter
- scanning beam illumination



FOR THE SCREENING ROOM

Jiffy Test Film: a time saving quick evaluation of 16mm sound projector system performance

for further information
and for a complete listing of test films, write to Department TF

Society of Motion Picture and Television Engineers

9 EAST 41st ST., NEW YORK, N.Y. 10017

Obituaries

Robert O. Gilmore

Robert O. Gilmore was killed in an airplane crash October 1, 1965. The airplane, a single-engine Cessna 140 piloted by Mr. Gilmore, crashed near Trenton, Ala. He was alone in the airplane. At the time of his death he was a television producer for TelePrompTer Corp. (OGMS-TV), Redstone Arsenal, Huntsville, Ala. He had been a member of the Society since June 1964. Born January 28, 1929, his education included courses at the Palm Beach Training College and extension courses from the University of Alabama. Prior to his association with TelePrompTer he had been an engineer with WJNO-TV and later had been a director with WFLA-TV in Tampa, Fla. His responsibilities with TelePrompTer included supervision of production and engineering personnel at OGMS-TV.



Hubert H. Schardin

Professor Doctor-Ing. Hubert H. Schardin of Weil am Rhein, Germany, world-famous scientist, lecturer, educator and pioneering expert in high-speed photography, died September 27, 1965, in Freiburg, Germany. Energetic well beyond his years, Prof. Schardin, born June 17, 1902, spent nearly thirty-five years of his life in the field of high-speed photography, mostly as related to aeroballistics research.

A Fellow of this Society, he was the first recipient of the E. I. du Pont Gold Medal Award, presented to him during the 5th International Congress on High-Speed Photography in 1960 in recognition of his outstanding career and pioneering in the science of high-speed photography.

He was Chairman of the 4th High-Speed Congress in Cologne, Germany, in 1958. His activities in the 1st Congress in 1952 and contributions to each succeeding biennial meeting culminated at the 7th Congress in Zurich, Switzerland. He collapsed during the evening of September 14th while at the Congress and was taken to a sanitarium in the Black Forest for rest and recuperation. The prevailing condition that resulted in his collapse was not recognized by his colleagues during the Congress, since up to the time of his collapse he continued to put all of his energy into the work of the Congress, including an hour-long lecture the morning of September 14th.

Professor Schardin's contributions to the fields of science and education were continuously comprehensive and extensive through writing, lecturing, directing and

consulting. His major works in high-speed photography date back to 1929, when he was working with his inspiring teacher, Carl Cranz, an earlier pioneer in ballistics high-speed photography, to whom he gave considerable credit for his early success. This work led to his doctorate in physics in 1934, for which his thesis, "The Quantitative Application of the Schlieren Method," was based on his work in high-speed schlieren methods for ballistic events.

Throughout his career, high-speed photography was the common thread that was outstanding in his contributions to science and education, utilizing his own technology of high-speed photographic instrumentation in his major areas of scientific investigation — missile water impact and entry, explosive shock wave phenomena, and brittle fracture. His contributions to education have been directly to individuals on an international basis as well as through universities in Germany. He was always available for assistance in whatever capacity he could be helpful in disseminating his knowledge in the field, including adult education of a nontechnical nature in his home town.

In 1959, Prof. Schardin became the first Scientific Director of a joint French-German research institute at Saint Louis, France, which position he held until 1964. He then became Director of the Technique Department of the German Ministry of Defense, a position comparable to that of a Director of Research and Development in the U.S. Department of Defense.

Concurrently with his work in the Ministry of Defense, Prof. Schardin retained his positions as Professor at the Universities of Freiburg and Cologne, and as Director of

the Ernst-Mach Institute at Freiburg and Weil am Rhein. He faithfully served the Ministry of Defense while also giving his best efforts toward support of physics research in Germany, his own optical institutes, and acting as a consultant for the Saint Louis Laboratories. In spite of this tremendous workload, Prof. Schardin made himself available to be most useful and communicative at the 7th Congress in Zurich.

The impact and impression made by Professor Schardin on the field of high-speed photography can in no way be completely summarized. His visits to activities such as the Naval Ordnance Laboratory, White Oak, Maryland, where, as a consultant, he helped establish the present uses of schlieren and ballistics photography, his personal efforts, and his publications con-

tributed considerably to the Laboratory's existing technology in aeroballistics and aerodynamics. Such use of his knowledge in other activities in the United States, Europe and elsewhere can similarly be credited.

His efforts as an advocate of high-speed photography over the years may best be summarized by a quotation from his acceptance speech for the Du Pont Gold Medal: "I consider this Gold Medal not only as a recognition of my own work but also as a visible sign that high-speed photography has become an important tool of research in opening the world of high-speed phenomena." Professor Schardin worked endlessly to accomplish his own goal of proficiency, and was equally generous in helping others in their endeavors to reach the same goal.—Max Beard.



Abstracts of papers appearing in other journals, chosen for their importance and possible value to researchers as well as those of timely interest, are published in the *Journal* from time to time. Many translations of abstracts from foreign journals, chiefly those of the USSR, are made available to the *Journal* by the Research Laboratories of the Eastman Kodak Company.

As a rule, translations are made of the abstracts and not of the papers. The journals in which the papers appear can be consulted at some libraries. Current issues of *Tekhnika Kino i Televidinya* can be consulted at, or borrowed from, the Society's Headquarters Office; also of possible interest to some readers may be three papers which have been translated from the

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