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24–29 June 1973

CLASSES:

1. GENERAL—photographs of evaluation and measurement instruments, processing techniques, testing, component assemblies, and related items.

2. PHOTOMICROGRAPHY AND ELECTRON MICROGRAPHY—examples of the application of excellent techniques as well as structural features of all materials—metals, nonmetals, organic or inorganic.

3. EMISSION MICROGRAPHY—to include examples of ion, electron, and thermal emission techniques.

4. SCANNING ELECTRON MICROGRAPHS—to cover examples of all techniques using the new scanning microscopes.

5. TECHNIQUE—examples of unique, unusual, or original techniques of value to the field of testing and evaluation.

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If you are not planning to enter the photographic exhibit please pass this information on to someone who may be interested in submitting an entry.

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Cover Photo:

Herbert F. Hardrath, assistant chief, Materials Division, NASA Langley Research Center, Hampton, Va., and the 1972 Gillett Memorial Lecturer spoke on “Structural Integrity in Aircraft,” the lead article in this issue of the Journal of Testing and Evaluation. Mr. Hardrath discusses the strengths and weaknesses of aircraft design philosophies and their demonstrated records of success. He proposes a broad program of research to organize and correlate existing knowledge on fatigue and fracture behavior of materials, identify gaps in this knowledge, and guide specific research on materials to upgrade design capabilities.