



International Metallographic Society  
ASM INTERNATIONAL

**IMS AND ASM**  
**JACQUET-LUCAS AWARD FOR EXCELLENCE IN METALLOGRAPHY**

I. DEFINITION AND HISTORY

The ASM Metallographic Award was established in 1946 for the best entry in the annual ASM International Metallographic Competition. In 1958 it became known as Francis F. Lucas Metallographic Award and has been endowed since that date by Adolph I. Buehler. In 1972, ASM joined with the International Metallographic Society in sponsoring the Pierre Jacquet Gold Medal and the Francis F. Lucas Award for Excellence in Metallography. Beginning in 1976, this award is endowed by Buehler Ltd.

Dr. Lucas, a Howe Medalist of ASM International, was born in Glen Falls, New York, in 1884, and received the honorary degree of Sc. D. from Lehigh University in 1931. For forty-seven years he was a staff member and research microscopist at the Bell Telephone Laboratories and pioneered the use of microscopy in the study of metals and living cells.

**It is ASM's commitment to be inclusive and mindful of diversity in our policies, programs, courses, awards, and interactions with others. As an organization, we affirm and encourage nominations of qualified candidates, within each award's criteria, regardless of their age, culture, ethnic origin, gender, gender identity, marital status, nationality, race, religion, sexual orientation, and socioeconomic status.**

II. RULES

- A. The contest is open to all, including non-members. Contest judges are excluded from entering.
- B. No more than three entries per individual (or team) will be accepted with no more than two entries allowed in any one class. This is to encourage exhibitors to enter only their best work.
- C. All entries must be:
  - Mounted on sturdy light-weight backing (mat board, foam core, heavy cardboard, etc.)
  - The maximum acceptable dimensions of the mounting board are 16 x 20 in. (41 x 51 cm.), and the minimum, 8 x 10 in. (20 x 25 cm.).
  - More than one pertinent photomicrograph may be presented on a single poster as one entry (except in Classes 9, 10 and 11). Multiple posters for one entry are not acceptable; each poster must be a single entry.
  - Each entry can be entered in only one class. The judges will not reclassify an entry even though they feel it would do better in another class, so choose your class carefully.
  - Entries must carry on the face of the poster: (a) classification of entry (1-11); (b) materials(s) or alloy; (c) etchant (if any); (d) magnification; (e) explanation and any unusual techniques or structural features. Caption information may be submitted in any language, but an English translation must be provided.
  - The name, company affiliation, postal address (with zip code), and phone number or cable address of the exhibitor must be typewritten and placed on the back of the poster. Include an email address if you would like rapid

notification of results. Do not place name or affiliation on front of poster. (The exhibit committee will affix a name label on the face of the entry after judging.) Please leave space in the upper left and right hand corners of the poster for labels.

- All entries become the joint property of IMS & ASM and cannot be returned.
- Only one photograph per entry in Classes 9, 10 and 11.
- Do not frame entries. All entries which contain digitally captured images must have a signed copy of the following statement affixed to the back of the entry (except Class II):

These images have not been significantly altered from their original appearance by application of image-enhancement algorithms and convolution kernels unless the purpose of the entry is to show how those are used to illustrate specific effects.

Signature

- D. Any entry not conforming to these stated rules for entrants will not be judged.
- E. The name of the recipient must be provided to the ASM Board of Trustees for its information.
- F. No candidate shall be selected for an award posthumously.

### III. CLASSIFICATION OF MICROS

#### Class

1. Light Microscopy - Metals and Metal Alloys Only.
2. Light Microscopy - All Other Materials.
3. Electron Microscopy - Transmission and Analytical
4. Electron Microscopy – Scanning
5. Color Microscopy
6. The Du-Bose-Crouse Award for Unique, Unusual, and New Techniques in Microscopy.
7. Undergraduate Student Entries - Metals and Metal Alloys Only.
8. Undergraduate Student Entries - All Other Materials.
9. Artistic Microscopy – Black and White Only
10. Artistic Microscopy – Color Only
11. Digital Microscopy - Artistic

### IV. JUDGING

Judging will be on a point system using the following criteria:

- A. Technical content - originality of the project in relation to solving a problem (45 points maximum).
- B. Quality and uniqueness of the specimen preparation (25 points maximum).
- C. Photographic quality (20 points maximum).
- D. Uniqueness of presentation in an aesthetic and technical sense, manner of titles and other printed descriptions (10 points maximum).

- E. Classes 9, 10 and 11 only - Judging of these classes is based on the artistic value of the micrograph only.

V. PHYSICAL DESCRIPTION OF AWARD

- A. The joint IMS and ASM award for the Best in the Show shall be a sponsored award of \$3,000. One Pierre Jacquet Medal shall be awarded in the name of the IMS, and one Lucas Certificate shall be presented in the name of the ASM.
- B. The first place winners in Classes 1 through 10 shall be a sponsored award of \$200 each and a certificate.
- C. The International Metallographic Exhibit Committee may recommend changes in the monetary awards, the number of exhibit classes and the designation of the classes. The changes must be approved by IMS and ASM.
- D. First Place student winners in Class 7 and 8 also receive the George L. Kehl plaque.
- E. First Place winner in Class 6 will receive the DuBose-Crouse Award (no monetary award).
- F. The Second Place winners in Classes 1 through 10 shall receive \$100 each and a certificate.
- G. Third Place winners in Classes 1 through 10 will receive \$50.00 each and a certificate.
- H. Certificates will also be awarded for Honorable Mention in each class. However, if in the opinion of the judges the standard expected of prize winners is not met, one or more awards in that class may be omitted.
- I. Judging at the location of the initial exhibit shall be final. If, in the opinion of the judges, the standard expected of entries in a class is not met, one or more awards in that class may be omitted. Explanation of award judging will be made available to the author or authors through the International Metallographic Exhibit Committee.
- J. The awards shall be announced at the IMS Annual Awards Banquet held during the IMS Annual Meeting. The awards shall also be announced at the ASM Annual Awards event held during the ASM's Annual Meeting. The Jacquet-Lucas Award recipient(s) shall be notified as soon as possible after judging is completed.
- K. The IMS Jacquet Award (Jacquet Medal and \$1500) and the IMS-ASM Certificate and Ribbon shall be made to the recipient(s) at the IMS Awards Banquet. The ASM Lucas Award (Lucas Certificate and \$1500) shall be presented at the ASM Awards and Annual Dinner.
- L. If in the event the recipient(s) cannot attend the ASM Awards and Annual Dinner, the Jacquet-Lucas Awards shall be presented at the IMS Awards Banquet. In the event that the recipient(s) cannot attend the IMS Meeting, then the Jacquet-Lucas Awards shall be presented at the ASM Awards and Annual Dinner.
- M. If in the event the recipient(s) cannot attend either of the two Awards events, then the Jacquet-Lucas Awards shall be mailed as soon as possible.
- N. The presentation of Awards at the IMS Awards Banquet and the ASM Awards and Annual Dinner shall be made with representation from both Societies whenever possible.

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**(Continued)**

- O. The International Metallographic Exhibit Committee will make notification by mail to all class award winners immediately after the initial exhibit. A letter, monetary award if applicable, and appropriate certificate (if not already given) shall be mailed to each author. All awards shall be given in the name of the IMS and ASM, and monetary awards shall name the sponsor. Non-winning authors(s) shall receive a letter.

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