



## 2000 International Metallographic Contest Winners

### Best In Show, Jacquet-Lucas Award

#### Ag-Cu-Sn Ternary Eutectic Structure Determination

Daniel J. Lewis & Sarah Allen

Daniel Lewis: Lehigh University

Dept. of Materials Science & Engineering

Bethlehem, PA, 18015 USA

Sarah Allen: Manchester Materials Science Centre

University of Manchester and UMIST

Grosvenor Street

Manchester

M1 7HR

United Kingdom

#### CLASS 1: Light Microscopy - Metals and Metal Alloys

1st Place

none awarded

2nd Place

#### **Porosity in Lens Powders and Deposits**

Don Susan (et al)

Sandia National Labs

P.O. Box 5800, MS 0886

3rd Place

none awarded

Honorable Mention

#### **Revealing Grain Structure in Cold Worked/Recrystallized High Purity Aluminum - 0.5% Copper**

Dennis Meade

Tosoh SMD, Inc.

Boeing Commercial Airline Group

3600 Gantz Road

Grove City, Ohio

Honorable Mention

#### **Field Metallographic Replicas of Crept Components in Life Estimation**

Dr. G. Venkataraman

Bharat Heavy Electrical Ltd.

Tiruchirappalli 620014  
Tamilnadu, India

CLASS 2: Light Microscopy - All Other Engineering Materials

1st Place

**Reaction Synthesis and Sintering of Iron Aluminide**

Shalva Gedevanishvili & Seetharama C. Deevi  
Research & Development  
Crysalis Technologies, Inc.

2nd Place

**Durability vs Performance:  
The Battle of the Composite Water Ski**

Erie Gilbert, B. Hayes, and J. Seferis  
Department of Chemical Engineering  
University of Washington  
Seattle

3rd Place

**High Performance Fly Fishing Rods:  
A Failure Analysis**

Erie Gilbert, B. Hayes, and J. Seferis  
Department of Chemical Engineering  
University of Washington  
Seattle

CLASS 3: Electron Microscopy - Transmission and Analytical

1st Place

**Mechanical Deformation of Isolated Gold Clusters**

Tokushi Kizuka, K. Hosoki, S. Deguchi, and M. Naruse  
Research Center for Advanced Waste & Emission Management

2nd Place

**What is Formed Above Ms? - Seeing the Precursor**

Y. Murakami, Y. Ikematsu, and D. Shimoo  
Institute for Advanced Materials Processing

3rd Place

none awarded

CLASS 4: Electron Microscopy - Scanning

1st Place

none awarded

2nd Place

none awarded

3rd Place

**Microstructural Characterization of Calcium Phosphate Biocements:  
Comparison Between Conventional and High Pressure Processing Techniques**

Herb Mueller

Paffenbarger Research Center

NIST

Gaithersburg, MD

3rd Place

**Impurities in Greenland Ice**

Daniel Cullen and Ian Baker

Thayer School of Engineering

Dartmouth College

Hanover, NH

**CLASS 5: Unique, Unusual, and New Techniques in Microscopy**

1st Place

none awarded

2nd Place

none awarded

3rd Place

**Three-Dimensional Imaging of Carbon Nanotubes**

Tokushi Kizuka, S. Banjo, T. Sumi, and T. Saito

Research Center for Advanced Waste and Emission Management

Honorable Mention

**Cross-Sectional Microscopy Using Focused Ion Beam (FIB)**

Kedar Sapre, Sudipta Seal, Zia Rahmann,

Hong-Bin Wang, and Paul Jepson

University of Central Florida

**CLASS 6: Color Microscopy**

1st Place

none awarded

2nd Place

**Selectivity of Immersion Color Etching**

Jamina M. Radzikowska

Foundry Research Institute

Zakopianska 73

30-418 Krakow, Poland

3rd Place

none awarded

CLASS 7: Artistic Microscopy - Color Only

1st Place

**Color Weave**

Jamina M. Radzikowska  
Foundry Research Institute  
Zakopianska 73  
30-418 Krakow, Poland

2nd Place

**Ti-Dreams**

Jamina M. Radzikowska  
Foundry Research Institute  
Zakopianska 73  
30-418 Krakow, Poland

2nd Place

**Y+B Cerium Metal**

Ramiro Pereyra  
Los Alamos National Labs  
P.O. Box 1663  
Los Alamos, NM

3rd Place

**\*Face\***

Phillipe Perodeaud  
Site de Pierrelatte Cedex  
Cea Valhro, France

Honorable Mention

Yee Siau Cheng

Department of Materials Science & Metallurgy  
University of Cambridge

Honorable Mention

**\*Flash\***

Danielle Pison  
Site de Pierrelatte Cedex  
Cea Valhro, France

CLASS 8: Artistic Microscopy - B&W Only

1st Place

**Arc Cast Niobium Carbide**

Ramiro Pereyra.  
Los Alamos National Laboratory  
P.O. Box 1663  
Los Alamos, NM

2nd Place

**Anchor in the Sand**

Christian Perret

Site de Pierrelatte Cedex

Cea Valhro, France

3rd Place

**Micro Flower**

Mohit Jain, W. Roger Cannon, and Bernard H. Kear

Department of Ceramics and Materials Engineering

CLASS 9: Undergraduate Student - Metals and Metal Alloys

**no entries**

CLASS 10: Undergraduate Student - All Other Engineering Materials

**no entries**

CLASS 11: Digital Microscopy

**no prizes awarded**

CLASS 12: DuBose-Crouse Award

**Color Etching of Copper and its Alloys**

George VanderVoort

Buehler Limited

41 Waukegan Road

Lake Bluff, IL 60044