



2008 International Metallographic Contest Winners

Best in Show - Jacquet-Lucas Award

Metallography of a Modern Pattern-Welded Steel Knife Blade

Thomas Nizolek
Lehigh University
27953 Oaklands Cir.
Easton, MD 21601
USA

Class 1 Light Microscopy – Metal and Metal Alloys Only – sponsored by Struers, Inc.

1st Place

Metallography of a Modern Pattern-Welded Steel Knife Blade

Thomas Nizolek
Lehigh University
27953 Oaklands Cir.
Easton, MD 21601
USA

2nd Place

Metallographic Validation of Dilatometric Technique for Ductile Iron

Chris Samuel
University of Alabama
Department of Metallurgical and Material Engineering
Box 87202
A129 Bevill Building
126 Seventy Ave
Tuscaloosa, AL 35487-0202
USA
and

Dr Srinath Viswanathan
Associate and FEF Key Professor
University of Alabama
Tuscaloosa, AL 35487
USA

3rd Place

Inhibition of Hot Cracking of Si-Steel Slab Containing a Small Amount of Mo

Dr. Yukio Inokuti

Steel Research Laboratory OB,
JFE Steel Corp.
664-25 Hagidai, Inage,
Chiba, 263-0012
Japan

Honorable Mention

Metallographic Condition Assessment of Serviced Gas Turbine Components

Dr. G Venkataraman
Consultant CA & RLA to TBW, Pune
Lead Assessor / Dept. of Science and Technology, New Delhi
1103 Vignesh Nagar
Tiruvalluvar Avenue, No. 1 Tollgate
TRICHY 621 216
India

Class 2 – All Other Materials – sponsored by Allied High Tech Products

2nd Place

Natural Fiber & Resin Composites

Brian S. Hayes
Applied Poleramic, Inc.
6166 EgretCourt
Benicia, CA 94510
USA

and

Luther M. Gammon
The Boeing Company
7701 14th Avenue South,
Bldg. 2-122 MC 19-HP
Seattle, WA 98108
USA

Class 3 Electron Microscopy – Transmission and Analytical

1st Place

**EDS Analysis and Electron Tomography of New Precipitates on Lath Boundaries
in 10Cr Ferritic Heat-Resistant Steel with V**

Dr. M. Mitsuhashi (corresponding author), K. Ikeda, S. Hata, H. Nakashima
Department of Engineering Sciences of Electronics and Materials, Kyushu University
6-1 Kasuga-koen
Kasuga
Fukuoka 816-8580
Japan
and
T. Wakai

Japan Atomic Energy Agency
Japan

2nd Place

**High-resolution Transmission Electron Microscopy Observation
of MX-type Alloy Carbides in Tempered Martensitic Steels**

Fu-Gao Wei (corresponding author)
Technology Development Department,
YAKIN Kawasaki Co., Ltd
4-2 Kojima-cho
Kawasaki-ku, Kawasaki
Kanagawa 210-8558

Japan

and

Kaneaki Tsuzaki
Structural Metals Center
National Institute for Materials Science
1-2-1 Sengen
Tskukuba
Ibaraki 305-0047
Japan

3rd Place

Engineering Efficient Zirconium-Based Grain Refiners for Magnesium Alloys

Partha Saha

Department of Metallurgical and Materials Engineering
University of Alabama
A129 Bevill Building, Box 870202
201 Seventh Ave

Department of Metallurgical and Materials Engineering
Tuscaloosa, AL 35487-0202

USA

and

Mohammed Shamsuzzoha
Central Analytical Facility
University of Alabama
Tuscaloosa, AL 35487

USA

and

Srinath Viswanathan
Department of Metallurgical and Material Engineering
University of Alabama
Tuscaloosa, AL 35487
USA

Honorable Mention

Microstructural Refinement of a Eutectoid Fe-Ni-Mn-Al Alloy

Ian Baker, Yifeng Liao
Thayer School of Engineering at Dartmouth College
Hanover, NH 03755
USA

Class 4 Electron Microscopy Scanning

1st Place

Microstructural Defects in Off-Stoichiometry Directionally Solidified TERFENOL-D

Rob Meloy
Etrema Products Inc
2500 North Loop Drive
Ames, IA 50010
USA

2nd Place

Extraction of Quasicrystalline Phases from Aluminum Alloys

Mrs. Boncina Tonica
University of Maribor Faculty of Mechanical Engineering
University Center for Electron Microscopy
SI-2000 Maribor
Smetanova ulica 17
Slovenia

3rd Place

Mechanisms of Sintering Ice Spheres

Ian Baker, Si Chen
Thayer School of Engineering at Dartmouth College
Hanover, NH 03755
USA

Class 5 Color Microscopy

2nd Place

Improvement of Grey Cast Iron Metallography

J.P. Arul Mozhi Varman, Chidambarakrishnan K
WABCO-TVS Limited
Plot no. 3, III Main Road
Ambattur Industiral Estate
Chennai-600058
India

Honorable Mention

"PEACE and PROSPERITY"

Dr. Frederick E. Schmidt - PE, FASM
Technical Director Materials Engineering
Engineering Systems
38 51 Exchange Avenue
Aurora, IL 60504
USA

and

Gabriel M. Lucas
Senior Materials Engineer, Education Services
Buehler, Ltd.
41 Waukegan Road
Lake Bluff, IL 60044
USA

**Class 6 The Dubose-Crouse Award
for Unique, Unusual, and New Techniques in Microscopy – sponsored by Elsevier**

1st Place

Novel Eutectic Structure in Metal Nanowires

Zhiping Luo
Texas A&M University
Microscopy and Imaging Center Biological Sciences Building West 119
College Station, TX 77843-2257
USA

and

Chien Chon Chen
National Chiao Tung University
Department of Materials Science and Engineering
Hsinchu 30050
Taiwan
Republic of China

2nd Place

Crystalline or Quasicrystalline Structure

Mrs. Boncina Tonica
University of Maribor Faculty of Mechanical Engineering
University Center for Electron Microscopy SI-2000 Maribor
Smetanova ulica 17
Slovenia

3rd Place

Multi Directional High Resolution TEM Observation of Pt Nanocatalysts

T. Sato, M. Konno

Hitachi-High-Technologies Corp.

11-1 Ishikawa-cho

Hitachinaka

Ibaraki, 312-0057

Japan

and

T. Kamino, Y. Nagakubo, A. Watabe, M. Ogasawara

Hitachi High-Technologies Corp.

882 Ichige

Hitachinaka

Ibaraki 312-8504

Japan

Honorable Mention

Classification of Firm Using Micro CT and SEM

Ian Baker, Rachel Lomonaco

Thayer School of Engineering at Dartmouth College

Hanover, NH 03755

USA

Class 7 Undergraduate Student Entries – Metal and Metal Alloys Only

No Award

Class 8 Undergraduate Student Entries – All Other Materials

3rd Place

Structural Characteristics of the Coconut Shell

Jorge Duque

San Jose State University

3251 Monaghan St.

Dublin, CA 94568

USA

Class 9 Artistic Microscopy – Black and White Only – sponsored by Precision Surfaces International

1st Place

Angel Fish - 409 Stainless Steel

Michael L. Morgan

EMCON Technologies

Columbus Technical Center

940W 450S, Building 1

Columbus, IN 47201

USA

2nd Place

That's Not A Moon - 409 Stainless Steel

Michael L. Morgan
EMCON Technologies
Columbus Technical Center
940W 450S, Building 1
Columbus, IN 47201
USA

3rd Place

Corn Ready To Eat

Dr. Mrs R. Nagalakshmi
Welding Research Institute, BHEL
WRI, BHEL
Trichy-620014
India

Class 10 Artistic Microscopy – Color Only

1st Place

Aluminum 20% Si - Cast

Frauke Hogue
Hogue Metallography
15201 De Pauw St
Pacific Palisades, CA 90272
USA

2nd Place

The Eutectic Islands

Gabriel M. Lucas
Senior Materials Engineer, Education Services
Buehler, Ltd.
41 Waukegan Road
Lake Bluff, IL 60044
USA

3rd Place

Dendritic Star Burst

Gabriel M. Lucas
Senior Materials Engineer, Education Services
Buehler, Ltd.
41 Waukegan Road
Lake Bluff, IL 60044

USA

Honorable Mention

"Griffith Cannon Flash" U. S. Civil War Battle of Gettysburg, PA

Dr. Frederick E. Schmidt - PE, FASM
Technical Director Materials Engineering
ENGINEERING SYSTEMS
38 51 Exchange Avenue
Aurora, IL 60504
USA

Class 11 Digital Microscopy Artistic

1st Place

IMS - Cast Steel
Frauke Hogue
Hogue Metallography
15201 De Pauw St
Pacific Palisades, CA 90272
USA

2nd Place

Al-Nb Explosion Bond Fracture
Jaret Frafjord
Y-12 National Security Complex
Oak Ridge, TN
USA