



International
Metallographic
Society
An Affiliate Society of ASM International®

2013 International Metallographic Contest Winners

Best in Show – Jacquet Lucas Award

Extrusion Welding in a Magnesium Alloy Extrudate
Nabeel Hussain Alharthi
Lehigh University
(On sponsored study leave from King Saud University, Saudi, Arabia)

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

Honorable Mention

Metallographic Analysis of 16th Century Japanese Cannon Shot
Joseph C. Sabol, Anthony P. Ventura
Lehigh University

Class 4 – Electron Microscopy Scanning

First Place

Nano Titania/Carbon Sheets Hybrid Structure by Oxidizing 2-D Ti₃C₂
Babak Anasori, Michael Naguib, Yury Gogotsi, Michel W. Barsoum
Drexel University

Class 7 – Undergraduate Student Entries – Metal and Metal Alloys Only – sponsored by Precision Surfaces International

First Place

Metallurgical Analysis of a Explosively Formed Projectile
Paul Justin Ramirez
Chapman University

Second Place

Failure Analysis of a Brass Fitting
Emily Leonard
Maple Grove Minnesota Senior High School

Honorable Mentions

Metallographic Analysis of a Circular Saw Blade
Ray Hickey, Kyle Stritch, Derek Weisburg
Lehigh University

The Wheel Deal: Metallographic Analysis of a Roller Coaster Wheel Hub
Drew Batten, Alain Schremmer, Andrew Shang, Seung Won Yang
Lehigh University

Metallographic Analysis of a Boat Propeller
Matt Adams, Madeline Dean, Nadia Krook, Jeff Luo
Lehigh University

Class 9 – Artistic Microscopy – Black and white Only

First Place

Eel
Sheri Neva
SEAL Laboratories

Second Place

FIB-Damaged Surface of AlAgCu Ternary Eutectic
Amber Genau
University of Alabama at Birmingham

Third Place

Zinc Metal Dendrites
Irene Paulauskas, Gerald E. Jellison, Jr. Lynn Boatner
Oak Ridge National Laboratory

Class 10 – Artistic Microscopy – Color Only – sponsored by ESI – Engineering and Scientific Investigation

First Place

Non-Metallic Inclusions in Cast Iron
Lukasz Boron
Foundry Research Institute

Second Place

Untitled Entry
Baillie McNally
Worcester Polytechnic Institute

Third Place

Psychedelic Nuclear Fuel
Barbara Deschamps
CEA Marcoule

Honorable Mentions

Fluid-like Microstructure of a Solid
Xian Chen, Yintao Song, Richard D. James
University of Minnesota

Spirals in Cast Basalt
Anna M. Ignatov
Perm National Research Polytechnic University

Class 11 – Digital Microscopy Artistic

First Place

Insect, Cast Basalt

Anna M. Ignatov

Perm National Research Polytechnic University

Second Place

Bridge Between Two Worlds – Carbon Joined Cobalt Chromium Spheres

Eric Hahn

University of California, San Diego

Third Place

Flight

Sheri Neva

SEAL