

Best In Show - Jacquet-Lucas Award and DuBose-Crouse Award

A Novel Approach for Revealing Prior Austenite Grain Boundaries in High-Strength Low-Alloy (HSLA) Steels
Champuri Srinivasa Rao
Central Manufacturing Technology Institute
India

George L. Kehl Award

Anatomy of a Falling Star: Reverse Engineering a Meteorite
LISA LEVANDOSKY, OLIVIA LUNDQUIST
Lehigh University
United States

Class 1: Light Microscopy

First Place, Best in Show, Jacquet-Lucas Award and Dubose-Crouse Award

A Novel Approach for Revealing Prior Austenite Grain Boundaries in High-Strength Low-Alloy (HSLA) Steels
Champuri Srinivasa Rao
Central Manufacturing Technology Institute
India

Second Place

Universal Electrolytic Metallography: Lucas Reagent for Stainless Steels and Superalloys
Dr. Ondřej Ambrož, Jan Čermák, Dr. Šárka Mikmeková
Institute of Scientific Instruments of the Czech Academy of Sciences
Czech Republic

Third Place

Orientation-Dependent Interference Colors of Calcined Needle Coke
Ryan J. Wayne
GrafTech International Ltd.
United States

Class 2: Electron Microscopy

First Place

Low Vacuum Heat Tinting for Light Microscopy: In-situ SEM Observation and Correlative Microanalysis

Dr. Ondřej Ambrož¹, Dr. Petr Horodyský², Jan Čermák¹, Dr. Šárka Mikmeková¹
¹Institute of Scientific Instruments of the Czech Academy of Sciences, ²Crytur
Czech Republic

Second Place

Improved saltwater corrosion resistance of Al-Cu-Mg alloy with Sn and Ce

Dr. SOURAV GANGULY
CSIR-Institute of Minerals & Materials Technology (CSIR-IMMT)
India

Third Place

Lunar Craters on Bearing: Case Study of Electrical Erosion in 52100 Steel Bearing

Vasanth T S, Haran Selvaraj, Vishwanatha Kenchikoppada, Muniyappa Kumar,
Seetharami Reddy Kottinti
Timken Engineering & Research India Pvt Ltd
India



IMS

International Metallographic Society

ASM INTERNATIONAL

Class 3: Student Entries

First Place, George L. Kehl Award

Anatomy of a Falling Star: Reverse Engineering a Meteorite

LISA LEVANDOSKY, OLIVIA LUNDQUIST

Lehigh University

United States

Second Place

Can It Cast: 3D Printed PLA Porsche to Cast Hot Wheel

Andrew Dalke, Jake Eltschlager, Yifan Pang

The Ohio State University

USA

Third Place

Adding Fuel to the Fire: Analysis of an Automotive Camshaft Position Sensor

Nicola R Glanvill, Lana Al-Tamim, Michael Topich

The Ohio State University

United States

Honorable Mention

Fizz-ical Metallurgy - Comparison on Diet Coke Can Vs Bottle

EVAN WOODWARD , MATT O'CONNELL

Lehigh University

United States

Class 4: Color Artistic Microscopy

First Place

Penguin, Microstructure of Ti-6Al-4V alloy etched with modified Weck'sI reagent, mag.12,5x, polarized light, Light Microscopy

Lukasz Boron

Łukasiewicz Research Network – Krakow Institute of Technology
Poland

Second Place

Ductility

Michelle Chambers

EAG Laboratories El Segundo
United States

Third Place

Monel 400 tube

Joel de Souza Alencar¹, Mauricio Mendes Costa²

¹Cnpem- Centro Nacional de Pesquisas em Energia e Materiais, ²CTMSP
Brazil

Honorable Mention

Dragon

Massoud Hassanabadi

Innovation & Technology Hydro Extrusion Europe
Sweden

Honorable Mention

Blossom Fractal

Dr. Shiva Pesaran

Central Laboratory of Shiraz University
Iran

Honorable Mention

Jurassic

Sheri Neva

Eurofins | EAG Laboratories
United States

Class 5: Black and White Artistic Microscopy

First Place

Been Through A Caterpillar

Michelle Chambers
Eurofins EAG Laboratories
United States

Second Place

Molybdenum Powder

Lukasz Boron
Łukasiewicz Research Network – Krakow Institute of Technology
Poland

Third Place

Silent Bloom

Homeira Parizad
Shiraz University
Iran