

2024 International Metallographic Contest Winners

Best in Show - Jaquet-Lucas Award

Scale-Bridging Characterization of Acicular Ferrite Nucleation

Adrian, Herges¹; Christoph, Pauly¹; Sebastian, Scholl²

¹Universität des Saarlandes; ²AG der Dillinger Hüttenwerke
Germany

Class 1: Light Microscopy

1st Place

Time-dependent microstructure evolution of 600°C post-weld heat treated 309L stainless steel claddings on low carbon steel

Scott C. Bozeman

Oregon State University
USA

2nd Place

A graphite nut dissolves in high speed steel

Peter Kirbiš¹, Egidij Hudrap²

¹SIJ Metal Ravne d.o.o., ²SIJ Ravne Systems d.o.o.
Slovenia

3rd Place

Lucky Color Etching in the Air

Ondřej Ambrož

Institute of Scientific Instruments of the Czech Academy of Sciences
Czech Republic

Class 2: Electron Microscopy

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2nd Place

Phase Characterization and Oxidation Behavior Analysis of As-Cast (NbTi)₉₀(CoCrNi)₁₀ Refractory Alloy Using Scanning Electron Microscopy

Ochieze Ugochukwu Philip

University of Cincinnati, Materials Engineering Department
USA

3rd Place

Post Heat Treatment Effects on Mechanical Behavior and Microstructure of L-PBF and Casting of Al-10Ce-Zr

¹Haijian Yang, ¹Le Zhou, ²Thinh Huynh, ²Kevin Graydon, ²Yongho Sohn, ³David Weiss

¹Department of Mechanical Engineering, Marquette University; ²Department of Materials Science and Engineering, University of Central Florida; ³Eck Industries, Inc.
USA

Honorable Mention

Wire Rod Steel Fractures: Unveiling Drawing Behavior and Mechanisms

Sujata Panda, Rakesha KK, Dr. Satish D

JSW Steel, Vijayanagar Works
India

Class 3: Student Entries

George L. Kehl Award

Metal Music: Pieces of a Piccolo

Hanna Everding, Daniel Popovich, Kiara Schmidt

The Ohio State University
USA

2nd Place

Corrosion of Pre-1982 Bronze vs. Modern Copper-Plated Zinc Pennies

Emmaline Hutchison, Chris Choi

The Ohio State University
USA

3rd Place

Microscopic View of a CPU

Ashley Ohmstede, Sterling Thompson
The Ohio State University
USA

Class 4: Color Artistic Microscopy

1st Place

ASM International (Shiva Pesaran)

Shiva Pesaran
Central Lab of Shiraz University- Iran
Iran

2nd Place

Pearlite brush

Monika Trabska
Laboratoria Badan Batory / Research Laboratories Batory
Poland

3rd Place

White Skies

Michelle Chambers
Eurofins EAG
USA

Honorable Mention

Reef

Michelle Chambers
Eurofins EAG
USA

Honorable Mention

Aluminum(Al-10Ce-1Mg) alloy melt pool front view

Haijian Yang
Marquette University
USA

Class 5: Black and White Artistic Microscopy

1st Place

Honey Suckle Pollen

Sheri Neva

Eurofins | EAG Laboratories

USA

2nd Place

Dragons in Polyethylene

Michelle Chambers

Eurofins EAG

USA

3rd Place

Steel moonlight

Monika Trabska

Laboratoria Badan Batory / Research Laboratories Batory

Poland

Honorable Mention

Eutectic maze

Spyridon Chaskis¹, Vasilis Loukadakis^{1,2}, Prof. Spyros Papaefthymiou¹, Dr. Marianthi Bouzouni², Fotis Tsiolis², Dr. Evangelos Gavalas²

¹School of Mining & Metallurgical Engineering, NTUA; ²ELKEME S.A.
Greece