



2017 International Metallographic Contest Winners

Best in Show – Jacquet Lucas Award

A Classic Aluminum Etch Supporting Development of a New Automotive Joining Process
(Class 1)

Elvin Beach

Worthington Industries Inc.
Columbus, OH

Tom Luzanski, Dustin Marshall, and Brian Dix

TWB Company LLC
Monroe, MI

The DuBose-Crouse Award

A Classic Aluminum Etch Supporting Development of a New Automotive Joining Process
(Class 1)

Elvin Beach

Worthington Industries Inc.
Columbus, OH

Tom Luzanski, Dustin Marshall, and Brian Dix

TWB Company LLC
Monroe, MI

George L. Kehl Award

Failure Analysis of a Collapsed Mo Thermocouple Protection Tube (Class 3)

Jason Lumsden

Loyola Marymount University
Los Angeles, CA

Class 1 – Light Microscopy – All Materials

First Place

A Classic Aluminum Etch Supporting Development of a New Automotive Joining Process

Elvin Beach

Worthington Industries Inc.

Columbus, OH

Tom Luzanski, Dustin Marshall, and Brian Dix

TWB Company LLC

Monroe, MI

Class 2 – Electron Microscopy, All Materials

Honorable Mention

What Makes an ASTM E208 Weld Bead So Effective

Eric Lynch, Josh Cottrell, Brett Baer, and Matthew Werner

SSAB Americas

Muscatine, IA

Class 3 – Student Entries – All Materials (Undergraduate Students Only)

First Place and the George L. Kehl Award

Failure Analysis of a Collapsed Mo Thermocouple Protection Tube

Jason Lumsden

Loyola Marymount University

Los Angeles, CA

Second Place

Alloying an Apple Core

Gannon Reichert and Michael Brill

Lehigh University

Bethlehem, PA

Third Place

Broken Reed, a Metallographic Analysis of Harmonica Reeds

Zhongrui Lui and Weining Li

Lehigh University

Bethlehem, PA

Honorable Mention

Shafting the Competition

Thomas Farinha and Joseph Cline

Lehigh University

Bethlehem, PA

Honorable Mention

SmCo Supermagnets or Supermodels
Cam Juric and Nick Johnson
Lehigh University
Bethlehem, PA

Class 4 – Artistic Microscopy – Color**First Place**

Stainless Steel Dendrites
Sheri Neva
EAG-Los Angeles
El Segundo, CA

Second Place

Graphitic Cast Iron - 1.5×
Juan Carlos Hernando
Jönköping University
Jönköping, Sweden

Third Place

Sunny Side-up Graphite Sphere
Amir Ardalan Rezaie, Haamun Kalaantari, and Reza Abbaschian
University of California, Riverside
Riverside, CA

Honorable Mention

Nickel-based Alloy 52M Filler Metal – Ductility-Dip Cracking
Sam Luther, Daniel Huber, and Boian Alexandrov
The Ohio State University
Columbus, OH

Honorable Mention

Graphitic Cast Iron - 31.5×
Juan Carlos Hernando
Jönköping University
Jönköping, Sweden

Honorable Mention

Friction Stir Additively Aluminum Alloy 2139 Component
Harold D. Claytor, Stephen J. Hales, and Eric K. Hoffman
NASA Langley Research Center
Hampton, VA

Class 5 – Artistic Microscopy – Black and White

First Place

Tin Lead Metal Mix
Sheri Neva
EAG-Los Angeles
El Segundo, CA

Second Place

Solder
John N. Willard
Baker Hughes, a GE Company
Houston, TX

Third Place

Tin Lead Dendrites
Sheri Neva
EAG-Los Angeles
El Segundo, CA

Honorable Mention

Copper Pipe Geode
Adam W. Haskins
MELT
Phoenix, AZ

Honorable Mention

Dendrites Found in a Center Void of a Fractured Steel Ingot
Rafael Coura Giacomini
Carnegie Mellon University, MSE
Pittsburgh, PA