

## **2021 International Metallographic Contest Winners**

### **Best in Show – Jacquet Lucas Award**

#### **The Art and Science of Microstructures (Class 1)**

Gerald Bourne  
Colorado School of Mines  
Golden, CO

### **George L. Kehl Award**

#### **The Art and Science of Microstructures (Class 3)**

W. Preston Cole, Robert S. Crow IV, Grace A. Rome, Carmen Sanchez, Greg D. Vigil  
Addison C. Wong, and Gerald Bourne (advisor)  
Colorado School of Mines  
Golden, CO

### **Class 1 – Light Microscopy – All Materials**

#### **First Place and the Best in Show - Jacquet Lucas Award (Class 1)**

The Art and Science of Microstructures  
Gerald Bourne  
Colorado School of Mines  
Golden, CO

#### **Second Place**

Continuous Casting of High Carbon Steel  
Peter Kirbiš, Dr. Mihael Brunčko, and Dr. Ivan Anžel  
SIJ Metal Ravne d.o.o. • and Faculty of Mechanical Engineering, University of Maribor  
Slovenia, EU

#### **Third Place**

Grain Growth of the Coal Fired Boiler Reheater Tube  
Arif Hariyadi, M.Sc., Ika Dewi Wijayanti, PhD., and Andi Setyawan,  
Institut Teknologi Sepuluh Nopember  
Surabaya, Indonesia

### **Class 2 – Electron Microscopy, All Materials**

#### **First Place**

Metallographic Evaluation of FSX 414 Gas Turbine Nozzle Segment  
Girish Shejale and Darshan Ahire  
Al Masood John Brown Gas Turbine Services  
Dubai

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### **Second Place**

Metallurgical Evaluation of Carbides in Gas Turbine Components  
Girish Shejale and Ashok Kandurkar  
Al Masood John Brown Gas Turbine Services  
Dubai

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

#### **The Art and Science of Microstructures (Class 3)**

W. Preston Cole, Robert S. Crow IV, Grace A. Rome, Carmen Sanchez, Greg D. Vigil  
Addison C. Wong, and Gerald Bourne (advisor)  
Colorado School of Mines  
Golden, CO

### **Class 4 – Artistic Microscopy – Color**

#### **First Place**

The Process of Deformation  
Kevin Smith  
MetPrep Ltd  
United Kingdom

#### **Second Place**

Potassium Iron Sulphate 1  
Karl Gaff  
TU Dublin (Technical University Dublin)  
Ireland

#### **Third Place**

Mind's Eye  
Samuel Pennell  
Northwestern University  
Chicago, IL

#### **Honorable Mention**

Grand Prismatic  
Xueni Huang  
University of Connecticut  
Storrs, CT

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### Class 4 – Artistic Microscopy – Color

#### Honorable Mention

Ammonium Nickel Nitrate 4  
Karl Gaff  
TU Dublin (Technical University Dublin)  
Ireland

#### Honorable Mention

Roots of Iron  
Samuel Pennell  
Northwestern University  
Chicago, IL

### Class 5 – Artistic Microscopy – Black and White

#### First Place

Dendrite Geode  
Adam Haskins  
Forensic Metallurgy  
Phoenix, AZ

#### Second Place

SEM micrograph of platinum exhibiting several grains after etching by calcium chloride  
Sofia Papadopoulou  
ELKEME SA (Hellenic Research Centre for Metals)  
Greece

#### Third Place

Steel Hills  
Monika Trąbska  
Laboratoria Badań “Batory” / Research Laboratories “Batory”  
Poland

#### Honorable Mention

Mare Fecunditatis  
Mauricio Mendes Costa  
Centro Tecnológico da Marinha – DDNM – LACAM  
Brazil

## **2021 International Metallographic Contest Winners**

### **Class 5 – Artistic Microscopy – Black and White**

#### **Honorable Mention**

Anatase nanotube array  
Xueni Huang  
University of Connecticut  
Storrs, CT

#### **Honorable Mention**

Cracked land  
Xueni Huang  
University of Connecticut  
Storrs, CT

#### **Honorable Mention**

Zinc microstructure  
Marianna Katsivarda  
ELKEME S.A.  
Greece

#### **Honorable Mention**

Fly Foot  
Sheri Neva  
Eurofins – EAG Los Angeles  
El Segundo, CA

#### **Honorable Mention**

Pandemic  
Sheri Neva  
Eurofins – EAG Los Angeles  
El Segundo, CA

### **Class 6 – Student Video – Topic of Choice**

#### **First Class**

Brace Yourselves Straighter Teeth Are Coming  
Chase Clapp and Hannah Clarkson  
Lehigh University  
Bethlehem, PA