

For Immediate Release

Microscopy Society of America Announces 2023 Society Awards Recipients

Awardees to be honored at Microscopy & Microanalysis 2023 meeting held in July in Minneapolis, Minnesota.

RESTON, Virginia – March 14, 2023 – The Microscopy Society of America (MSA) announced today its 2023 Society Awards Recipients. Five individuals will be honored on July 24, 2023, at the Microscopy & Microanalysis 2023 meeting. The Society Awards honor distinguished scientific contributions to the field of microscopy and microanalysis by technologists and by scientists at various career stages, as well as distinguished service to the Society.

The Society's **Distinguished Scientist Award** annually honors preeminent senior scientists, this year in the discipline of physical sciences, for a long-standing record of achievement in the field of microscopy and microanalysis during his or her career.

The 2023 MSA Distinguished Scientist is **John Andrew Panitz, University of New Mexico (Physical Sciences)**.

“Erwin W. Müller and John Panitz introduced the Atom-Probe Field Ion Microscope in 1967. Dr. Panitz created the first single atom detector for the Atom-Probe, invented the Liquid Field Emission (LiFE) Chemical Detector, the Field Desorption Mass Spectrometer, or Imaging Atom Probe, and the 10cm Atom Probe. The 10cm Atom probe was the first 3D Atom Probe, the progenitor of Atom Probe Tomography and the atom probes that followed including the Local Electrode Atom Probe or LEAP instruments in commercial production and widespread use today. In 1981, he and Ivar Giaever introduced Edge-Projection TEM that produced the first images of a biological molecule extending outward from a metal surface, leading to the first 3D images of unstained biological molecules by Field Desorption Tomography.”

The **Burton Medal** annually honors the distinguished contributions in the field of microscopy and microanalysis thus far in the career of a scientist of not more than 40 years of age.

The 2023 Burton Medal Physical Award Winner is **Joe Patterson, University of California, Irvine**.

“Joe Patterson earned his undergraduate degree in Chemistry from the University of York, UK in 2009 and his Ph.D in Chemistry from the University of Warwick, UK in 2013. He performed postdoctoral research at the University of California, San Diego, USA and the Technical University of Eindhoven, NL. He is currently an Assistant Professor of Chemistry at the University of California, Irvine, USA where his research focuses on developing and applying Liquid and Cryo-Electron Microscopy to the study of molecular self-assembly processes.”

The **Outstanding Technologist Awards** honor technologists from both the Biological (Hildegard H. Crowley Award) and Physical Sciences (Chuck Fiori Award) who have made significant contributions such

as the development of new techniques which have contributed to the advancement of microscopy and microanalysis.

The 2023 Hildegard H. Crowley Award Winner is **Patricia L. Jansma, University of Arizona.**

“Patricia Jansma has a BS degree from The Pennsylvania State University and an MS degree from University of Georgia. She has 40+ years of experience in life science research in light and electron microscopy. In her 33 years of imaging facility management at the University of Arizona RII Imaging Core-Optical, she especially enjoys training the next generation of scientists.”

The 2023 Chuck Fiori Award Winner is **Matthew Michael Schneider, Los Alamos National Laboratory.**

“Matthew Schneider is a Senior Research Technologist in the Materials Science and Technology Division of Los Alamos National Laboratory where he helps run the Electron Microscopy Laboratory. He received his B.S. in Materials Science and Engineering from Purdue University in 2011 and his M.S. from the University of Virginia in 2014 where his dissertation work focused high-resolution observations of in situ of alloy solidification. In his current role at Los Alamos Matt enjoys bringing advanced microscopy methods to a challenging array of problems in modern materials science.”

The **Morton D. Maser Award** was initiated to recognize outstanding volunteer service to the Society as exemplified by Mort Maser, who served the Society for many years with great dedication. This award is made to honor an MSA member who has provided significant volunteer service to the Society over a period of years.

The 2023 Morton D. Maser Award Winner is **Gail Celio, University of Minnesota.**

“Gail Celio received her PhD in Plant Pathology from the University of Georgia in 2002; since 2007 she has worked at the University Imaging Centers at the University of Minnesota where she is the Electron Microscopy Section Lead. Gail has been a continuous member of MSA since 2011 and is currently Proceedings Editor (2014-present) and DEI Committee co-chair. She is an active member of her local affiliated society, the Minnesota Microscopy Society, serving as president (2021-2022), MSA Representative, and host of the annual “Non-Microscopy” Trivia Mixer.”

The Microscopy Society of America was founded as the Electron Microscope Society of America in 1942, a time of rapid development for an instrument that promised, for the first time, better resolving power than that of the traditional light microscope. The Society adopted its current name on the occasion of its 50th anniversary, to reflect the diversity of microscopy techniques represented by its membership. Today, a variety of microscopes are capable of imaging individual atoms, and providing chemical information to identify what kind of atom is being imaged, while a variety of microscopes of lower resolving power continue to play an enabling role in understanding the world around us at a microscopic scale. The Microscopy Society of America champions all forms of microscopy and the development of new imaging technologies through its annual meeting, its publications, and its educational outreach.

Microscopy & Microanalysis (M&M) is the annual meeting of the Microscopy Society of America and the Microanalysis Society (MAS). [M&M 2023](#) will be held July 23-27 in Minneapolis, Minnesota.

The Microscopy Society of America is an affiliate society of the American Institute of Physics (AIP) and the American Association for the Advancement of Science (AAAS).

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For promotional purposes, photographs and biographic profiles of the 2023 Society Awards Recipients can be found on the MSA website: https://www.microscopy.org/awards/2023_awardsrecipient.cfm.

For more information on each awardee click on the “List of Recipients” link then on the name of the individual award winner in the list. Information on previous award winners can also be found on the MSA website.

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