

Editorial Staff

Robert L. Price, Editor-in-Chief
bob.price@uscmed.sc.edu
(803) 216-3824

Gennifer Levey, Production Manager
glevey@meridianartpro.com
(212) 780-0315

Beverly Maleeff, Administrative Editor
bev@alumni.psu.edu

Charles E. Lyman, Senior Editor
charles.lyman@lehigh.edu

Phil Oshel, Senior Editor
oshel1pe@cmich.edu

Stephen Carmichael, Columnist
carmichael.stephen@mayo.edu

John Shields, Columnist
johnshields59@gmail.com

Cameron Varano, Pioneers Editor
cvarano@psu.edu

Richard Edelmann, Education Editor
edelmare@miamioh.edu

Deb Kelly, Microscopy 101 Editor
debkelly@psu.edu

Rich Fiore, Product and Industry News Editor
rich@scifisalesinc.com

Rich Martens, Calendar Editor
rmartens@ues.com

Nikolaus Cordes, Digital Content Editor
nikolaus.cordes@inl.gov

Thomas Kelly, Chief Innovation Judge
thomas.kelly@ametek.com

Robert Simmons, Chief Micrograph Judge
robert.simmons@briarwillow.com

Advertising Sales

M.J. Mrvica Associates, Inc.
2 West Taunton Avenue, Berlin, NJ 08009
mjmrsvica@mrsvica.com
(856) 768-9360

Kelly Miller, Account Manager
kmiller@mrsvica.com

Magazine website:

<http://www.microscopy-today.com>

Free subscriptions are available.

Publisher

Cambridge University Press
One Liberty Plaza, 20th Floor
New York, New York 10006
(212) 337-5000

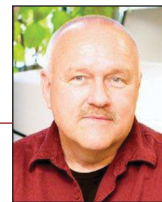
Circulation: 18,000

Editorial Board

Nasim Alem, Penn State University
Arlan Bencotter, Lehigh University
John Bozzola, Southern Illinois University
Peter Crozier, Arizona State University
Vinayak Dravid, Northwestern University
David Grubb, Cornell University
Bryan Huey, University of Connecticut
Heather Lowers, U.S. Geological Survey
John Mackenzie, North Carolina State Univ.
Paul Maddox, U. of North Carolina–Chapel Hill
Ania Majewska, U. Rochester Med School
Joseph Michael, Sandia National Labs
Caroline Miller, Indiana University
Brian M. Patterson, Los Alamos National Lab
John Reffner, John Jay College, SUNY
Ian Robertson, University of Wisconsin
Phillip Russell, Appalachian State University
Bradley Thiel, SUNY Polytechnic Institute
Simon Watkins, University of Pittsburgh
Cynthia Zeissler, Nat. Inst. of Stds. and Tech. (NIST)

From the Editor

2021 *Microscopy Today* Innovation Awards



Congratulations to the winners of the twelfth annual *Microscopy Today* Innovation Awards competition. We thank all of the individuals, corporations, and institutions that submitted applications to this competition. Many of the submissions over the last eleven years, even if they did not win an Innovation Award, were subsequently published as articles within these pages. Those articles provided descriptions of devices and methods useful to microscopists—a key objective of this publication.

As always, our team of judges, led by Tom Kelly, looked for innovations that will make new scientific investigations possible. The ten winning innovations below were selected based on their usefulness to the microscopy community and their probable importance for future research. The entries most likely to win are those that provide better, faster, easier, or entirely new methods of analysis using some type of microscope or microanalytical instrument.

The 2021 *Microscopy Today* Innovation Award winners are:

Bruker Nano GmbH for the development of *NanoRacer High-Speed AFM*

Carl Zeiss Microscopy, LLC for the development of *Lattice Lightsheet 7*

Delmic B.V. for the development of *METEOR to assist cryo-EM*

DENSSolutions B.V. for the development of *CLIMATE for in situ microscopy*

Excelitas Technologies Corp. for the development of the *X-Cite NOVEM fluorescence illumination system*

EXpressLO LLC for the development of *EXpressLO-Z™ FIB/TEM specimen grids*

Gatan, Inc. for the development of the *Stela™ Hybrid-Pixel Camera*

Hummingbird Scientific for the development of *Multi-model in situ bulk liquid-electrochemistry microscopy*

Thermo Fisher Scientific Inc. for the development of the *Helios 5 Laser PFIB*

WITec GmbH for the development of the *alpha300 apyron automated Raman microscope*

An article within this issue provides descriptions of the above innovations. Nomination applications for the next competition are available upon request (charles.lyman@lehigh.edu). The deadline for application submission is March 21, 2022.

Charles Lyman, Senior Editor

Bob Price, Editor-in-Chief

Publication Objective: to provide information of interest to microscopists.

Microscopy Today is a controlled-circulation trade magazine owned by the Microscopy Society of America that is published six times a year in the odd months. Editorial coverage spans all microscopy techniques including light microscopy, scanning probe microscopy, electron microscopy, ion-beam techniques, and the wide range of microanalytical methods. Readers and authors come from both the life sciences and the physical sciences. The typical length of an article is about 2,000 words plus figures and tables; feature articles are longer. Interested authors should consult “Instructions for Contributors” on the *Microscopy Today* website: www.microscopy-today.com.

ISSN 1551-9295

Disclaimer

The Microscopy Society of America and the editors cannot be held responsible for opinions, errors, or for any consequences arising from the use of information contained in *Microscopy Today*. The appearance of advertising in *Microscopy Today* does not constitute an endorsement or approval by the Microscopy Society of America of any claims or information found in the advertisements. By submitting a manuscript to *Microscopy Today*, the author warrants that the article is original or that the author has written permission to use copyrighted material published elsewhere. While the contents of this magazine are believed to be accurate at press time, neither the Microscopy Society of America, the editors, nor the authors can accept legal responsibility for errors or omissions.

© Copyright 2021 by the Microscopy Society of America. All rights reserved.