

SEM | TEM | MASS SPEC | NMR | ESR | EPMA | AUGER | FIB | SAMPLE PREP | APPLICATIONS EXPERTISE

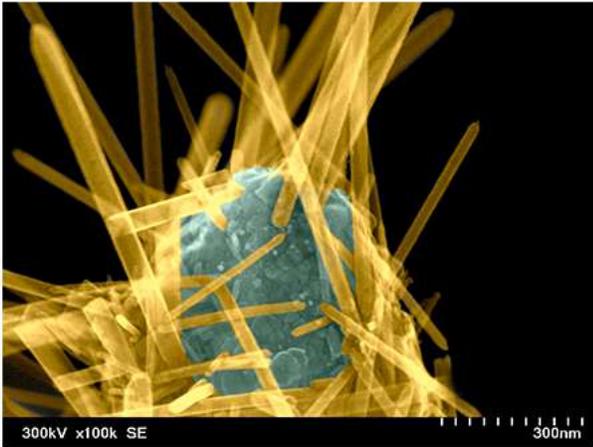
JEOLink Newsletter

DEC 2018 | ISSUE #82



JEOL Image Contest 2018 - Three Months of Winners!

Congratulations to three winners of the JEOL image contest - we announced them via social media in September, October, and November. Thanks to all who have submitted images this year. We have one more winning image to announce and also two Grand Prize winners. There's still time to submit! All entries in December will automatically be included in the 2019 contest.



September 2018

Nano Fireball

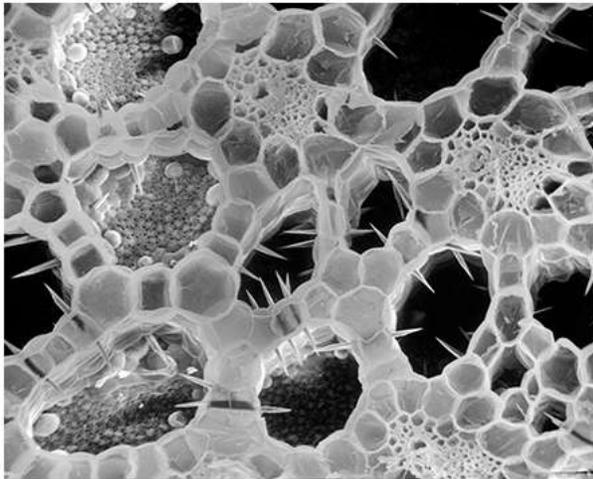
Ulugbek Shaislamov, Jeju National University
ZnO nanorods grown on the CuO nanosphere.
Imaged on JEM-2100F STEM



October 2018

Wildlife of MXenes

Armin Vahid Mohammadi, Auburn University
(2D) transition metal carbides and nitrides (MXenes)
Imaged on a JSM-7000F SEM



November 2018

Crystalline Labyrinth

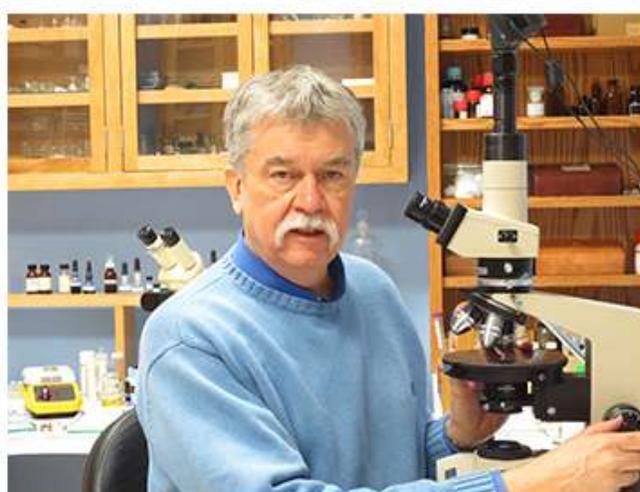
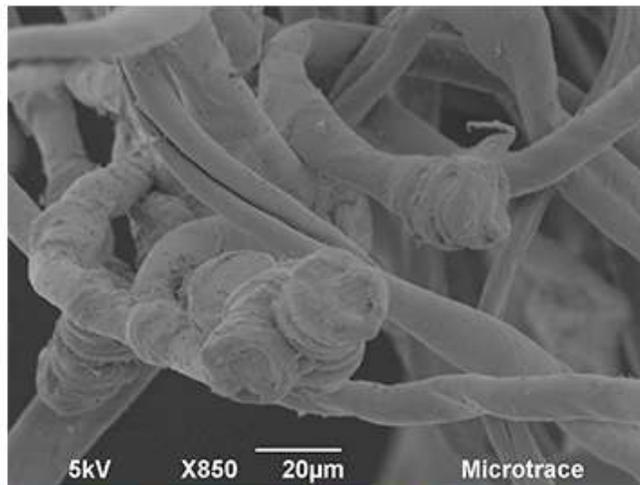
Harry (Jack) Horner, Iowa State University
Looking inside the petiole of water hyacinth
(*Eichhornia crassipes*) at the beautiful partitioned
airspace canals and their surrounding cellular
connective tissue with protruding calcium oxalate
styloids. JEOL 5800 SEM at 15 kV

Do you have a great image to share? Enter the JEOL 2018 Microscopy Image Contest! Grand Prize Winners to be announced at the end of 2018.

Will you be our next Image Contest Winner - for December? Or a Grand Prize Winner for 2018? Two Grand Prize Winners will be announced at the end of 2018. All entries in December will automatically be included in our 2019 Image Contest.

Visit our website for instructions on how to [enter the contest](#) and possibly win an Amazon gift certificate and be featured in the next JEOL calendar! [See all the 2018 entries to date here.](#)

Going to print soon - the 2019 JEOL Image Contest Calendar. [Click here to request yours!](#)



Given the high-profile forensics cases handled by [Microtrace](#), the company's father-son team of Skip and Chris Palenik have achieved a kind of celebrity status. But more than accolades, they relish the challenges sent their way and the opportunity to summon their vast expertise to let science determine the answers to the questions posed.

These questions sometimes put them in the public eye. [In the fall of 2018, the second season of the popular Netflix documentary, "Making a Murderer," aired on television, showing Chris using a JEOL Field Emission Scanning Electron Microscope.](#) In episode 7, he examined key evidence that might help the defense's case for a mistrial. Could the lead bullet fragment found in the garage of the defendant have passed through the skull of the victim, and were the particles embedded in the bullet fragment actually bone? After six months of waiting for a court order to release it specifically for this purpose, the lawyer watched as the embedded particles in the bullet fragment were carefully examined in situ at Microtrace's lab in Elgin, Illinois. [Read the full story>>>](#)



[University of California-Irvine wins National Design-Build Project/Team Award 2018](#) | Excellence in Design — Engineering | Special Recognition for Transmission Electron Microscope Facility

[Under the Microscope: Big Possibilities for Human Health](#)

[Academic-Industry Partnerships Crucial for New Instrumentation](#)

[Cutting Edge Electron Microscope Revealed](#) | University of Glasgow at center of vital structural biology research with world-class #CryoEM capability.

[New Microscopes Will Allow Researchers to See Small and Think Big](#) | University of Pennsylvania, Singh Center for Nanotechnology

MRS Fall 2018

Congratulations to the Science as Art contest winners! Armin Vahid Mohammadi, Auburn University (shown with Robb Westby of JEOL in our booth) using FE SEM, and Yiheng Chen, The Haverford School using NeoScope Benchtop SEM.



Curious About Benchtop SEMs?

This video from JEOL Ltd. provides a nice explanation of how the [NeoScope](#) SEM works. With magnification up to 60,000X and EDS analysis, it packs a lot in a small package. See just how small and how versatile it is so fun to use, it even has a mascot and a

name. <http://go.jeolusa.com/e/234012/2Nv09s9/7vgdx/229013215?h=gr22ZzqvGQWThzxpJSVXo6aQqw3ugl2k0r3JI-JaFw>.

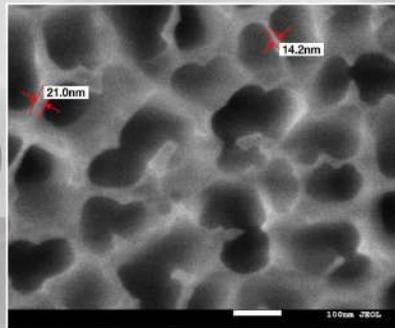
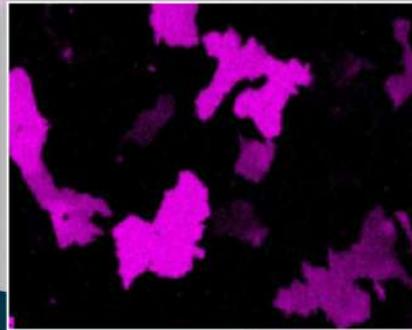
We're Proud of All our Field Emission SEMs can Do!

STRONGEST FE SEM IN THE WORLD

CAN YOUR SEM DO THIS?

*Lightning fast
automated EDS analysis
at 1kV (32nA, 830 sec)*

*Graphene layers on
Ni substrate*

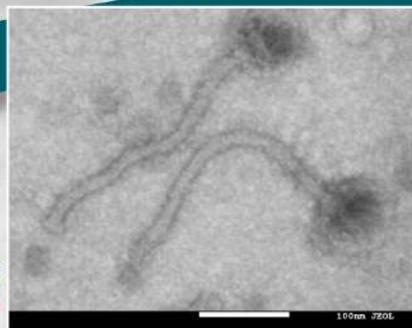


*Ultrahigh resolution
at ultralow kV*

Membrane filter at 10V

Low voltage STEM

*Virus
(Hope College, Stukey Group)*



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Connect with JEOL

Stay in touch with us at JEOL USA and share in the fun and some valuable information. Besides, we like to see you there!



Contact us at jeolink@jeol.com.

Our 2018 [Calendar of Events](#) is now online. See us at these upcoming conferences and meetings!

Click one of the icons below to learn more about JEOL products.



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