

# JEOLink

JEOL USA Newsletter

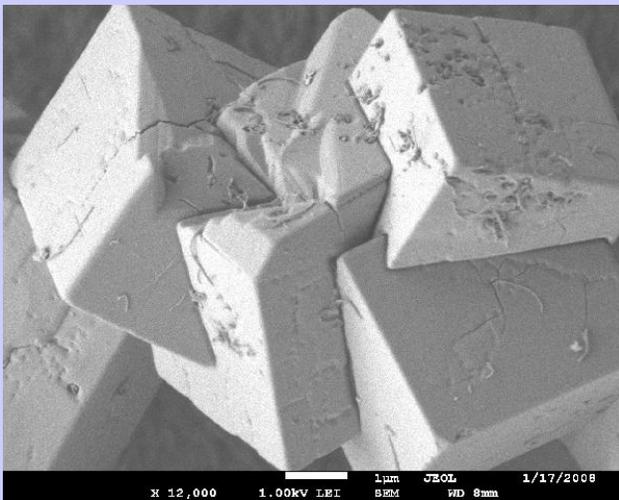
January 2008

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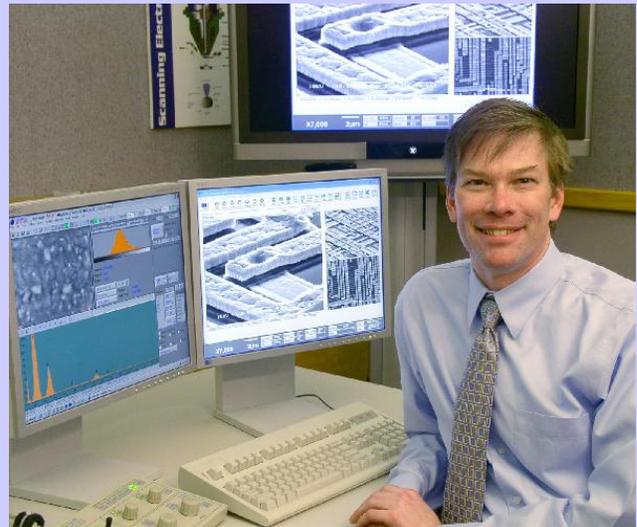
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## Extreme Image



Multi-walled carbon nanotubes on MOF.  
Sample courtesy of D.F. Shantz and H.K.  
Jeong, Texas A&M University.

## JEOL Welcomes New SEM Applications Specialist



The newest member of JEOL's SEM Team, Dave Edwards, gained an in depth working knowledge of SEMs while developing microchannel plate-based detectors for JEOL SEMs for Galileo Electro-Optics Corporation. "Many users don't dare touch the working parts, but I had to muck around with the pole piece and get my hands inside the column," he says. He also used JEOL SEMs in each of his past jobs. Dave's move to JEOL came after several years of work at National Semiconductor/Fairchild, creating new ICs and verifying the quality of the sub-micron lines and metal etching using the SEM. Most recently, he worked at Rochester Electronics, a continuing supply company for ICs, in the failure analysis lab.

"We're delighted that Dave joined JEOL, not only because he's a very knowledgeable and professional guy who will be a great resource for our customers, but also because he brings hands on experience in failure analysis and semiconductor devices," says Charlie Nielsen, VP and Product Manager.

Dave fills a vacancy left when Donna Guarrera joined the Warner-Babcock Institute for Green Chemistry this past fall. She worked for JEOL for nearly six years demonstrating the SEMs at trade shows and JEOL's demo labs, and providing applications support to many new customers. She has been very active in the microscopy organizations and taught at Lehigh University. Dave, who has a physics degree from Rensselaer Polytechnic Institute, is a member of IEEE, EDFAS, and plans to work with the New England Society for Microscopy (NESM). He has also held memberships in ASMS, AVS and SPIE, and has authored papers on electron multiplier based detectors.

## Quick Links

[Invitation to the SEM World and Guide to SEM](#)

[JEOL USA Online Products Resources Image Gallery Contact Us](#)

See Us at These Upcoming Meetings and Tradeshows



### [American Academy of Forensic Sciences \(AAFS\)](#)

Feb 20-22, 2008  
Booth 605/607  
Washington, D.C.

### [Advanced Lithography](#)

Feb 24-29, 2008  
San Jose, CA

### [Pittcon](#)

March 3-6, 2008  
Booth 4120/4121  
New Orleans, LA

Visit a REALab



Follow our REALab link above to where we spotlight researcher's work using JEOL electron microscopy or JEOL analytical instruments, and how their scientific advances are impacting their field.

To meet other members of the JEOL SEM Team, click [here](#).

## Boston College Integrates Nanofabrication with New JEOL Instruments

Boston College has selected the new JEOL MultiBeam Focused Ion Beam system and a Field Emission Scanning Electron Microscope for its nanofabrication clean room facility in Newton, Massachusetts.

As a result of Boston College's continued investment in the sciences, the university opened its first clean room (class 1,000/10,000), which will be equipped with the JEOL models JIB-4500 [MultiBeam](#) and [JSM-7001F](#) Scanning Electron Microscope with lithography capabilities.

The 4,000-square-foot lab is poised to elevate Boston College to a leadership position in this cutting-edge research into materials, energy and technology that are making an impact on fields as diverse as chemistry, physics, computing, medicine, and energy conservation.

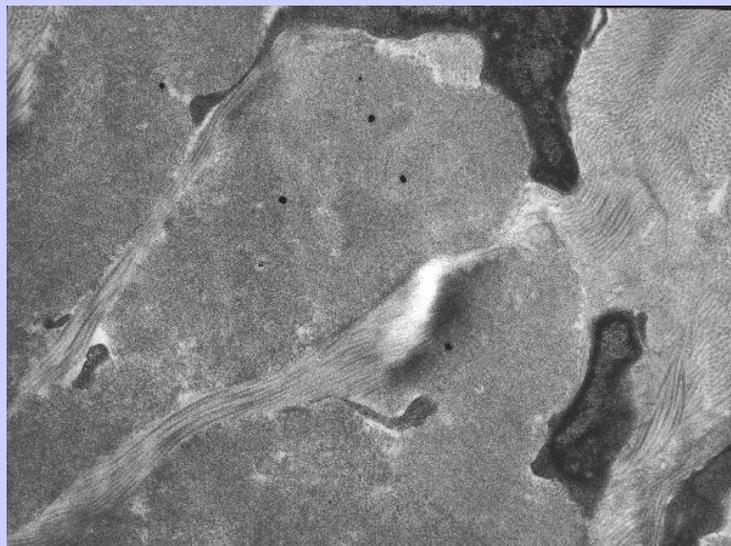
[Read the full story](#)

## The Blue Man

*An interview with Pathologist Dr. Jerry Simmons, Sioux Falls, South Dakota*

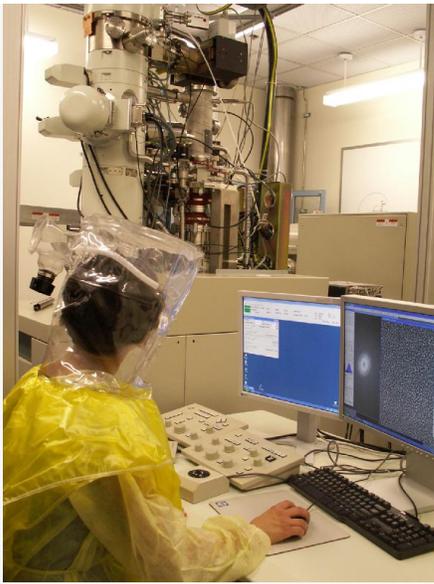
When a South Dakota ranch hand's skin turned bluish-grey, his condition was initially diagnosed as methemoglobinemia, or reduced oxygen-carrying capacity in the blood. He didn't respond to treatment, so he turned to the VA hospital in Sioux Falls, which is where Pathologist Dr. Jerry Simmons, working with a surgical resident, walked past the blue man and was intrigued.

"He was a smoker, and smokers do sometimes have a problem with methemoglobinemia," Dr. Simmons explains the original diagnoses. "He was sitting in his hospital room and I happened to walk by the gentleman and said to the doctors, 'he's got silver poisoning.' The internists all laughed when I told them, but we had a JEOL electron microscope so I said, 'let's biopsy him.' The silver was off the wall and so was the selenium."



Story continued here - click REALab:





## SEM Specimen Holders



JEOL USA has the widest offering of sample holders for SEMs. Follow the link above to our Parts Online pages to see the selection. We also work closely with our customers when they have unique requirements. For more information, contact us at [salesinfo@jeol.com](mailto:salesinfo@jeol.com).

## JEOL USA Mission Statement



### Mission Statement

***Achieve customer fulfillment and loyalty by delivering outstanding technology and superior support while maintaining a leadership position in the industries and institutions that we serve.***

## New "CarryScope" Mobile SEM from JEOL

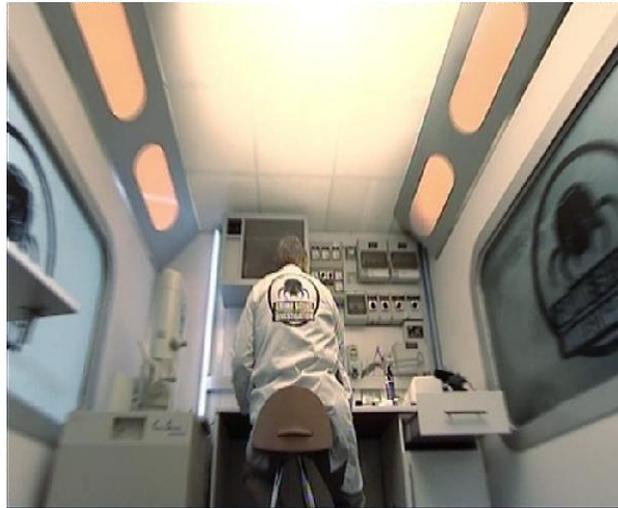


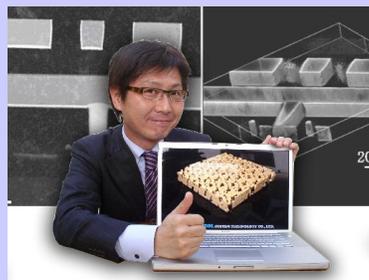
Photo courtesy of BBC. "Grime Scene Investigation" mobile lab shown.

JEOL USA introduces a new mobile Scanning Electron Microscope that can travel or easily be moved to different locations as needed.

The new CarryScope is the ideal instrument for the mobile crime lab where imaging and analysis of trace evidence are conducted right at the crime scene. In the research or manufacturing setting, the CarryScope can be transported between the lab, conference room, or office for inspection of products or analysis of research samples. [Continued.](#)



## Microscopical Society of Canada Bulletin Interviews Dr. Furukawa on Tomography



An interview was conducted as a part of discussions on organizing a workshop on three-dimensional imaging at the National Institute for Nanotechnology in the spring of 2008. Dr. Hiromitsu Furukawa developed the electron tomography package for JEOL transmission electron microscopes (TEMs). His company recently introduced a MATLAB scripting package for JEOL TEMs. [Click here to read the article.](#) For more information on TEMography, visit our [web page](#).

For more information on MSC, visit <http://msc.rsvs.ulaval.ca/english/welcome.html>

## 2008 Calendars

We know the JEOL calendars are a popular item, judging by the number of requests we receive. We have a limited number of the 2008 calendars remaining. If you would like one, please contact us at [jeolink@jeol.com](mailto:jeolink@jeol.com). We'll send them out in the order of requests. Don't wait!

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