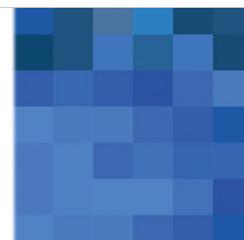


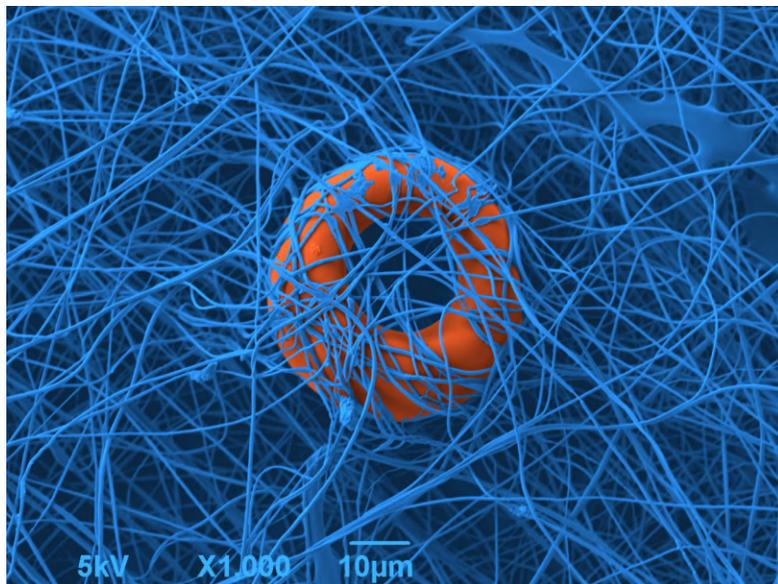


# JEOLink Newsletter

JULY 2019 | ISSUE #86



## JEOL Image Contest 2019



Congratulations to **Simone Lauciello**  
**IIT - Fondazione Istituto Italiano di  
Tecnologia**

Winner of the JEOL Image Contest for the month of June. The winning SEM image "Trapped" shows a blood platelet trapped among silk fibers. Taken on a JEOL JSM-6490LV SEM and colored using MountainMap Software.



[Submit an Image](#) | [Image Contest Gallery](#)

## Introducing JEOL Financial Services

No one knows JEOL equipment better than JEOL and our customers. This is why, effective July 1st 2019, we're making it easier than ever for you to acquire our equipment via financing, at historically-low rates, and in some cases, below-market rates such as 0% financing.

**To kick off this new program, we're offering 0% financing for select products until September 30th. Between now and September 30th, finance a new JSM-IT500HR, JSM-IT200LA, or JEM-1400Flash with JEOL Financial Services for 0%.**

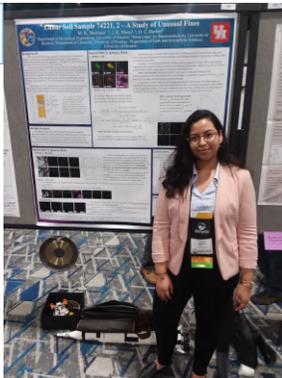
### Benefits of the new JEOL Financial Services Program

- + Finance 100% of your project (with no down-payment necessary)
- + Accelerate your return on investment (ROI) with no delays
- + Customize your repayment terms, for example:  
bridge-to-budget solutions and pre-grant funding
- + No fees and simple process
- + Conserve cash and credit lines
- + Align expenses with revenues
- + Accounting and tax benefits

[Learn More>](#)

## Apollo 17 Lunar Soil Sample Still Surprises After 50 Years

REALab

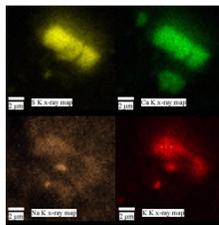


50 years ago on July 20, 1969, Apollo 11 landed on the moon. Three years later, Apollo 17 was the last Apollo mission to land men on the moon and the only one to carry a geologist. Lunar soil samples collected from that last moon landing are still yielding a few surprises for a new generation of researchers. When an undergraduate at the University of Houston (UH), Monica Martinez, landed the opportunity to examine a sample of the fine-grained regolith (essentially inorganic topsoil) collected by the Apollo 17 astronauts in 1972, she and her PI, Dr. James Meen, were surprised to find some unexpected minerals. It was by chance that Monica had the opportunity to examine a portion of the lunar soil sample in the electron microscope. "How could I say no to working with moon rocks?" she recalls. It led to an exciting discovery and she has two published conference proceedings to date on this second major project with Dr. Meen.



### Species in regolith not in igneous rocks: Sulfides

(Martinez, Barker, and Meen, 2019)



40 mg of fine (<100  $\mu\text{m}$ ) regolith 74221,2 were spread on Mylar and X-ray maps made on SEM.

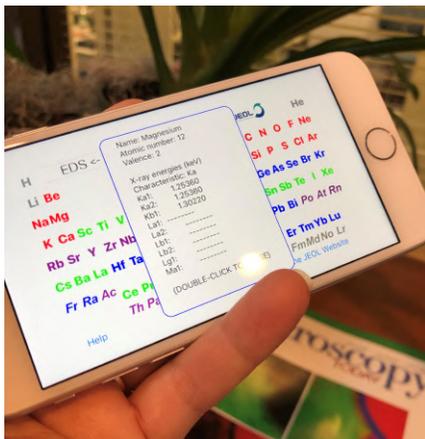
Calcium sulfide (no FeS).

Oldhamite is rare terrestrial and meteorite mineral but contains no alkalis. This grain has variable Na and K and no Mg or transition metals.

IGSUH

[Read the full story and see data from the lunar soil sample >](#)

## New Periodic Table App



Always keep the periodic table with you! 2019 is the International Year of the Periodic Table, and we've developed a new App, available through the Apple App Store, for SEM, NMR, and Mass Spec. Included in this App is all related elemental data for Energy-Dispersive x-ray Spectroscopy (EDS). Note that it's also just been updated to include X-ray energy peak overlap lines for EDX, thanks to a suggestion from a user!

[Learn More >](#)



## JEOL President's Award

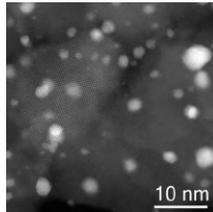
Two JEOL USA employees in the Peabody, Mass. office won the corporate-wide annual President's Award from JEOL, Ltd. for their work on our Environmental Control Systems for atomic resolution TEM. L to R: Bob

Pohorenec, Mike McKie and Joseph Girgis are shown with their awards, H. Arima, and John Guerin. A special lunch was held to recognize Joseph and Mike for their outstanding work!



Seen  
In Our **Newsfeed**

[Direct synthesis of hydrogen peroxide using TS-1 supported catalysts](#)



Direct synthesis of  $H_2O_2$  from hydrogen and oxygen using a commercial titanium silicate called TS-1 as a support for Gold Palladium (AuPd) and Gold Palladium Platinum (AuPdPt) catalysts, a reaction that could be carried out in situ as the first step in a manufacturing process.

[An innovative electron microscope overturning common knowledge of 88 years history](#)



Groundbreaking TEM technology! A newly developed magnetic objective-lens system for a magnetic-field-free environment at the sample position enables direct, atom-resolved imaging of magnetic materials such as silicon steels. Developed by Prof. Naoya Shibata at the University of Tokyo and JEOL Ltd.

[Won again he has - 'MXene Yoda' wins art competition](#)



Won again he has! Congratulations Armin for your win with MXene Yoda. Armin VahidMohammadi of Auburn University has won several JEOL image contests!



**Join us at M&M 2019 Booth 623 - Portland, Oregon**

We're introducing new SEM technology and celebrating 70 years of innovation in electron microscopy. [Register for a demonstration or view the schedule.](#)



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Our 2019 [Calendar of Events](#) is now online. See us at these upcoming conferences and meetings!

Our 2019 [Training Schedule](#).

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