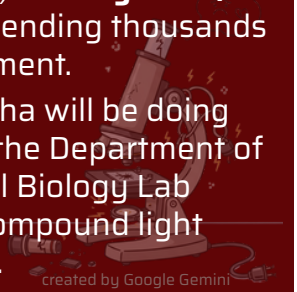
Broken instruments? We can help!

Let our expert staff **diagnose and potentially fix** your instrument(s) for **only $200/hr** instead of spending thousands on a replacement.

Dr. Stan Vitha will be doing just that for the Department of Biology's Cell Biology Lab Course's 8 compound light microscopes.



A survey gauging interest in a biological image analysis working group will be sent out soon.

Instrument Highlight

Talos F200i TEM

The MIC has a **new transmission electron microscope**, the Thermo Scientific Talos F200i, that features:

- advanced **analytical** capabilities with
- an ultra-high bright cold field **emission gun**
- **bright and dark field** scanning transmission electron microscopy detectors
- SuperX silicon drift energy **dispersive x-ray spectroscopy** detectors
- a **Nanomegas** precession package.

Contact: Dr. Hansoo Kim

REMINDER

NEW RATES START DEC 1

Find exact rates on our website

Rationale	Rate increase is mandated by the University's rate study and reflects MIC's acquisition of new instruments and capabilities, the past year's usage patterns, and the lack of any large rate increase over the past 4 years.
Offsets	We are seeking approval for significant off-peak and extended-use discounts. Training and consultation continue to be offered in our regular series of workshops, and our seed grant program still provides six hours of free consultation.

If you have any questions about the rate increase or how it may affect your usage of the MIC, please contact Dr. Avery McIntosh (almcintosh@tamu.edu) or any other staff member.

MIC NEWSLETTER

December 2025 **ILSB 1143** **microscopy.tamu.edu**

Every month the MIC will send out a newsletter with up-to-date announcements, instrument highlights, and upcoming events. See previous newsletters on our website, here.

STAFF HIGHLIGHT

Dr. Hansoo Kim

luminesc@tamu.edu
ILSB 1129

Expertise: Material Sciences. Electron & Cryo-Electron Microscopy

Dr. Hansoo Kim joined the Microscopy and Imaging Center at TAMU in January 2008 and is an **expert in electron microscopy.** He received his Ph.D. in Materials Science and Engineering from the University of Florida at Gainesville in 2003 and performed his postdoctoral research at the University of Pennsylvania before he became a research scientist at the University of North Texas. He also has industrial experience as a semiconductor process researcher at Hynix Inc.

Dr. Kim's research area is **synthesis and characterization of nanomaterials** such as carbon nanotubes and ceramic nanoparticles. His research interests are analysis of materials for crystallographic, physical and chemical properties using the **analytical transmission electron microscopy equipped with auxiliary tools**. Dr. Kim encourages researchers to explore how they can use electron microscopy in their studies and is happy to help users with their projects.

Using the MIC? Please cite us by our Research Resource ID in your paper - RRID:SCR_022128.

MIC NEWSLETTER - EVENTS

December 2025 ILSB 1143 microscopy.tamu.edu

Tues. December 2 12:00pm in 3147 ILSB

Register on our website, here, or with the QR code to the left.

Lunch and Learn

"Advance your Image Analysis with AI"

Scott Benton from AIVIA

More than just pixel classifiers. State-of-the-art, customizable AI for 3D fluorescence image analysis.

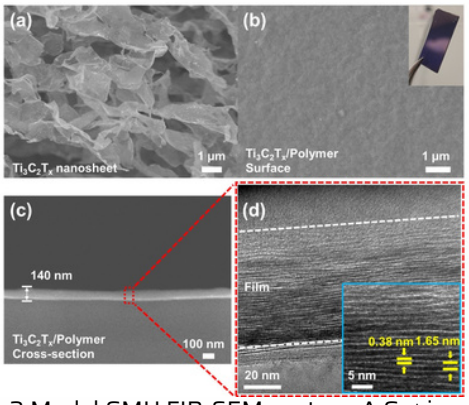
Contact: Dr. Holly Gibbs

December

Submit on our website, here, or with the QR code above by **December 31, 2025** for a chance to win.

Picture of the Month

Submit an image taken with an MIC instrument to be displayed on our website and to win a **free MIC t-shirt**!



November POM by **Yang Hyun Auh**

"MXene nanosheet and composite membrane"

$Ti_3C_2T_x$ MXene nanosheets and composite membranes complexed with polymer. The images were taken using SEM and TEM. Cross-sectional TEM measurement was performed by preparing film sections cut from each LbL-coated substrate using focused ion beam (FIB) milling with a Tescan FERA-3 Model GMH FIB-SEM system. A Ga^+ ion beam was used to mill the samples after depositing protective Pt layer over the region of interest. Find more information about sample prep on the MIC website. The samples and images were submitted by Yang Hyun Auh from Dr. Jodie L. Lutkenhaus's Lab in Chemical Engineering and are courtesy of Dr. Kailash Arole, Dr. Yordanos Bisrat and Dr. Sisi Xiang.

Contact: Dr. Sara Maynard

Dr. Griffing to speak in the UK

As the **Director of the MIC** and a **Royal Microscopy Society (RMS) Fellow**, Dr. Griffing will be visiting the UK in January to give talks on his research and the MIC.

January 7, Oxford

Invited Speaker at Flora in Focus: A Microscopy Conference for Plant Scientists hosted by Oxford Brookes University and Nikon.

Free registration open through Dec.

January 8, Newcastle Upon Tyne

Crib Talk over the MIC at the Light Microscopy Facility Meeting hosted by the RMS.

Registration open until Dec. 12.