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Wednesday, March 24th 2021

Technical “Virtual” Presentation

“Multiscale Imaging Solutions for Lithium Battery Development”

By Zhao Liu PhD, Thermo Fisher Scientific

Lithium battery is an energy storage system with highly complex microstructures covers multiple length scales, namely from millimeter to nanometers. The performance of the battery is dependent on the battery microstructures. Therefore, accurately characterizing the battery microstructure at different length scale, namely from cell level to atomic level, is critical for interpreting battery performance, which ultimately advancing the battery technology. In this talk, I will be discussing the multiscale imaging and analysis solution for lithium battery research.

Zhao Liu is the market development manager at Thermo Fisher Scientific and focuses on energy material applications. Zhao’s interest is to investigate the analytical challenge of battery characterization in battery R&D and manufacturing, develop solutions within Thermo Fisher Scientific to meet the needs. Zhao received the PhD degree in materials science and engineering from Northwestern University studying 3D imaging of Li-ion battery for structure-performance analysis.

Presentation time will begin at 5pm PST

Since this is a virtual meeting **you must RSVP** with an email address so that we can provide you the link prior to the meeting.

[Click Here to RSVP](#)

Attention Students

Time to apply for the 2021

Abe Hurlich Scholarship

Applications available now until April 23rd through our website:

<https://www.asminternational.org/web/san-diego-chapter>

Under “Student Outreach” and “Scholarship Opportunities”

If there are any questions please contact Bob Klug at;
Travelbob2014@gmail.com or (214) 236-2181

ASM San Diego Chapter Up-Coming Events

April Technical Meeting
May "Students Night"

TBD
TBD

It is spring and we are moving forward....

Hello everyone,
Spring is in the air and things are looking up in general. Okay, still doing the virtual meetings but we are getting better at them.

Our next meeting scheduled for March 24th is on **Multiscale Imaging Solutions**, by *Zhao Liu PhD*, as noted on the 1st page. This should be an interesting topic. RSVP if you please, so I don't miss any of you.

We are busy this month judging the Jr. & Sr High students in the Greater San Diego Science & Engineering Fair. As a reminder, this is where we choose our young student to honor during the May Student's Night.

Speaking of Students, we are also taking applications for the **Abe Hurlich Scholarship**. This annual scholarship is open to any college students and the recipient will also be honored at the Student's Night event. So, if you know anyone who fits the bill they have until April 23rd to apply. Don't wait until the last minute.

Finally: The Annual 2021 Engineering Week Festival, is over but there are a number of On-Demand Videos available through their website. A little bragging here, I even did a video on the metallurgy of the "Star of India".

www.sandiegoengineers.org/festival

Thanks again; and as always, while I might be retired, I still accept any and all emails and calls.
Bob Klug, Communication Chair
(214) 236-2181, Travelbob2014@gmail.com

Southern California ASM District II Organizations

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(San Diego County Engineering Council)

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(American Society for Nondestructive Testing)

AWS www.awssection.com/sandiego
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Have any questions, comments, or suggestions? Please write to the chapter at: ASMSanDiego@gmail.com

This is your chapter; let us know what we can do to improve it!

