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Meeting Begins 9:00 pm EDST/ 8:00 pm CDST/ 7:00 pm MDST/ 6:00 pm PDST

Thursday, **August 16, 2018** (Third Thursday not Fourth Thursday))

ATOMICALLY PRECISE MANUFACTURING

by

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Technology Manager

Department of Energy's Advanced Manufacturing Office (AMO)

Atomically Precise Manufacturing (APM) refers to newly emerging capabilities to produce materials and devices that are virtually defect-free. Atomically precise products will provide game-changing advances in energy applications and beyond. The presentation will describe the Dept. of Energy Advanced Manufacturing Office programming in this technology space, and the projects that are being funded. Approaches include new methods for atomically precise catalysts, self-assembly of engineered molecular building blocks, positional assembly using scanning probe microscopes, and positional assembly using molecular machine systems. The qualitative differences between APM and conventional technologies (such as atomic layer deposition and single crystal growth, which are not atomically precise) will be discussed.

Dr. David Forrest is a Technology Manager in the Department of Energy's Advanced Manufacturing Office (AMO), where he focuses on Atomically Precise Manufacturing, high performance materials, and advanced material processes. He also manages the High Performance Computing for Manufacturing program at AMO as well as projects in AMO's SBIR-STTR Program. Dr. Forrest earned his doctorate degree in materials engineering at the Massachusetts Institute of Technology in 1993. He is a Fellow of ASM International.

When it is time for the meeting to start, click "[join the meeting](#)" and use Meeting number (access code): 796 317 949 to log in.

If the link does not work, you can join by phone

1-866-469-3239 Call-in toll-free number (US/Canada) or

+1-650-429-3300 Call-in toll number (US/Canada)

CALL FOR VLS SECTION NOMINATIONS

The Nominating Committee is looking for VLS members to run for **vice-chair**, **treasurer** and **two open director positions**. If you are interested in running for one of these positions or wish to nominate another VLS member, contact Dan Miller by August 15 at millerd54@comcast.net.

NATIONAL NEWS

The AIChE hosts technical conferences around the world. Check www.aiche.org/conferences for registration and presentation information for this year's events.

Dates	Location
Sep 16-20	63th Ammonia Plant Safety Symposium Toronto, Ontario, Canada
Oct 26-29	Annual AIChE Student Conference Pittsburgh, Pennsylvania
Oct 28 – Nov 2	2018 AIChE Annual Meeting Pittsburgh, Pennsylvania
Nov. 4 - 6	International Conference on Microbiome Engineering Boston MA
Dec. 2 - 4	Food Innovation and Engineering (FOODIE) Conference Napa, California
Dec. 5 - 7	6 th International Conference on Stem Cell Engineering San Francisco CA
Dec. 10 - 11	2 nd International Conference on CRISPR Technologies San Diego CA
March 31 - April 4	2019 Spring National Meeting & CCPS Global Congress on Process Safety New Orleans, Louisiana

Future Webinar Topics

Sept 27, 2018

Student Internship Presentations

October 18, 2018

Flameless Oxidation for Heating of
Ethylene Furnaces

November 15, 2018

Rapid Advancement in Process
Intensification Deployment (RAPID)

December 20, 2018

Open

January 2019

Engineering Ethics

STUDENT PRESENTATION COMPETITION

There is still time to enter the 2018 Student Co-op/Internship Presentation Competition. The competition is open chemical engineering students who plan to graduate after December 1, 2018. Abstracts must be uploaded onto the VLS website by August 17, 2018 with accepted submitters notified by August 27, 2018.

The presentation is due by September 17, 2018. VLS members will judge the virtual presentations (8 to 10 minutes) and presenting awards (\$500, \$250, \$100) on September 27, 2018 starting 9 pm EST. More information and the entry form are available at

<https://www.aiche.org/community/sites/local-sections/virtual-local-section/events/updated-student-co-op-and-internship-presentation-competition>

Contact the organizer, Noah Meeks, at NoahChemE@icloud.com if you have any questions or need more information.

GET THE MOST OUT OF THE DISCUSSIONS ON AICHE'S ENGAGE

AICHE hosts a platform called Engage that connects AIChE members with each other and their chemical engineering communities. One of the features of this platform is the discussions, the largest of which is Discussion Central.

All members of AIChE can post to Discussion Central and anybody with an Internet connection can view Discussion Central posts. This discussion group has some very lively and interesting threads.

In July, for example, there was an informative thread about the history and future of ethanol in gasoline in the US.

As a Virtual Local Section member, you are also allowed to view and post to the discussion community labeled "Virtual Local Section Central". The posts on this site focus on items of interest to the section.

To access Discussion Central you must log onto www.aiche.org. There is a banner across the top of the page with a drop down menu labeled "AIChE Sites" located to the left of the banner. Click on the drop-down arrow and select Engage, which is in the top row. Select the drop-down menu for Discussions and select Discussion Central.

To access the Virtual Local Section Central site, you must log into the Engage web page. Once you are logged in, click the word "Discussions" in the top role. Then click on "My Discussion Groups" in the drop menu to access a list of the discussion groups located within the Engage database. Using the drop-down menus listed below the "My Discussion Group" banner, you can obtain a list of groups you can join. Then click on the title for each discussion group you wish to follow and contribute comments.

Scroll down the list until you reach the Virtual Local Section discussion group. Then click it to access our discussions.

When you log into Discussion Central for the first time, you can select your email delivery preferences for the discussion digests by discussion group. Once you select one of the discussion groups, there is a settings button with a gear icon next to the name of the discussion. One of the options in settings is email notifications. Enter your email and select one of the following options: daily digest, no digest, or real-time notifications. Once you confirm your selection, you will receive the Digital Digest as selected.

Selecting the "Daily Digest" option sends a daily summary of active discussions to your inbox every day there is an addition to the ongoing discussions in your communities.

With these instructions, add your voice to the discussions on AIChE's Engage platform.



SECTION OFFICERS

Chair: Sabine Brueske
sbrueske@energetics.com

Vice Chair: Kirsten Rosselot
ksrosselot@processprofiles.com

Secretary: Laura Gimpelson, P.E.
lg_environmental@bellsouth.net

Treasurer: Neil Yeoman
loretta.neil@yahoo.com

Executive Committee

Director 1: Louis Mielke
cartal@global.co.za

Director 2: Paul Shuey
paul_c_shuey@hotmail.com

Director 3: Open (Expires 12/31/2018)

Director 4: Walter Goldstein
GoldConsul@aol.com

Director 5: Dan Miller
millerd54@comcast.net

Director 6: Paul Adamson
paul.adamson.01@gmail.com

Attendance at a Virtual Section Meeting is open to AIChE Virtual Local Section Members, AIChE members and interested persons. Attendees are required to log into

<http://virtual.aiche.org/content/join>

to receive the login link and password.

Visit <http://virtual.aiche.org> for more information on AIChE Virtual Section missions, activities and membership.

Subscribe/Unsubscribe Information

Our newsletter subscription is by invitation only. Use the following link to maintain contact information

Subscribe: Click on the following link
<http://www.memberconnections.com/olc/pub/CHM/>

Unsubscribe: Click on the following link
<http://www.memberconnections.com/olc/pub/CHM/>

and follow the instructions on the screen.

Contact the New York Office for Permanent Address Corrections at xpress@aiche.org or 1-800-242-4363.

Mailing address is:

AIChExpress Service Center

120 Wall Street

New York, New York 10005

www.aiche.org

Send your name and PE State and number to lg_environmental@bellsouth.net to receive one hour of continuing education credit for attending our monthly webinar.