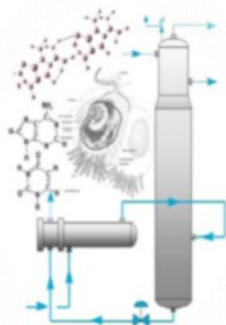


AICHE Chicago Section

November 2022 Newsletter



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November Meeting Summary

Speaker:	Dr. Yoon Il Chang Former Associate Laboratory Director Argonne National Laboratory
Topic:	Nuclear Energy Option to Achieve Carbon Neutrality
Event Date/ Registration Deadline:	Thursday November 17th <u>Register by Wednesday November 9th</u> <small>NON-US CITIZENS MUST SUBMIT FORM BY NOVEMBER 9TH: FORM LINK</small>
Meeting Agenda:	5:00 - 5:45 PM Nuclear History Exhibit Tour 5:45 - 6:15 PM Networking and Registration 6:15 - 7:00 PM Dinner 7:00 - 7:15 PM Section Announcements 7:15 - 8:15 PM Presentation and Q&A
Where:	Argonne National Laboratory 9700 S. Cass Avenue, Bldg. 208 Lemont, IL 60439

[Click to View Event Summary and Register](#)

Cost:	Member: \$20 Non-Member: \$25 Student: \$10 Unemployed and Retired Members: \$15
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(To donate or learn about the local section student's scholarship program, please go to [this page](#).)

Biography: Dr. Chang has been associated with Argonne National Laboratory for the past 48 years. He has been a pioneer in advanced nuclear reactor design and served as the General Manager of Integral Fast Reactor (IFR) Program (1984-1994), Associate Laboratory Director for Engineering Research (1998-2002) and Argonne's Interim Laboratory Director (1999-2000). Currently he is an Argonne Distinguished Fellow Emeritus and invited visiting professor at Korea Advanced Institute of Science and Technology.



Cont. on Page 3

Chair's Corner

I can't believe it is already November and we are moving into colder months and Holiday season- this is always special time of the year. This year, the AIChE Annual Meeting will be taking place in Phoenix, AZ and themed "Powering the Future" which is the perfect theme for what is needed in the fast changing world right now. I am very excited about the meeting as in addition to very apt theme, we are also celebrating 25 years of CRE (Catalysis and Reaction Engineering) division of AIChE. CRE division is hosting three invited talks session on Monday (Nov 14) celebrating 25 years so if you are planning to attend the meeting, do check that out because the topics and speakers are great which diversity of topics and speakers including reviews of past to the outlook of the future and everything in between.



The [MRC](#) committee has been making great progress. Call for abstracts will open soon so please consider submitting an abstract for an oral presentation or poster and help us put the words out to your colleagues and potential speakers. Presenting is an opportunity to demonstrate your new and exciting accomplishment and build your brand within the technical community. Besides, volunteering in the various committees also brings value in networking and gaining leadership experience. Please reach out to Conference Chair, Dr. Jessica Morris at jmorris@exponent.com, if you would like to get involved.

In this newsletter, I would like to bring to your attention the award and scholarships offered by our Section. The Ernest W. Thiele award is sponsored by bp and recognizes the outstanding contributions to our profession by a Midwest region chemical engineer. This award was established by the AIChE Chicago Section and is presented annually to a Midwest region AIChE member. This is one of the highest honors a distinguished chemical engineer can receive is our AIChE Chicago Section Thiele award. Nominations are due April 1, 2023. Please consider nominating a deserving engineer for this prestigious award. You can contact Thiele Committee Chair, Dr. Jeff Zalc at zalc@iit.edu, for nomination form and additional information.

We also offer student scholarships every year. This is an effort to encourage the next generation of engineers to enter and continue their education in our field and practice chemical engineering as a professional. For this purpose, the AIChE Chicago Section has established a Scholarship, available to currently enrolled or planning to enroll in an ABET credited college or university of their choice in a chemical engineering discipline (undergraduate and senior high school students). The scholarship is also available to the immediate family of AIChE Chicago section members. Information for this is available on our website and in this newsletter. We also appreciate any donation made to the scholarship fund in support of our Section core mission in promoting education.

I would like to once again thank all the amazing volunteers of AIChE Chicago Section who have worked tirelessly to make all the meeting of this year possible and already planning for the coming year. November will be the last meeting of the year 2022 so I wish you the best of times with your family and friends and look forward to seeing you in Jan meeting. As always, I am requesting your support and ideas to help us do better and share your perspective on what would you like us to do more. Please reach out to us on aichechicago@gmail.com with your ideas/suggestions/comments/questions- everything is welcome.

Sarika Goel

AIChE Chicago Section Chair

AIChE Senior Member

Cont. from Page 1 November Meeting information

In recognition of his leadership in all aspects of the IFR program, he was awarded the U.S. Department of Energy's E.O. Lawrence Award. He is a Fellow of American Nuclear Society and received Cisler Medal. He received outstanding alumni awards from the University of Michigan and Seoul National University.

He received his BS in Nuclear Engineering from Seoul National University, ME in Nuclear Engineering from Texas A&M University, PhD in Nuclear Science from the University of Michigan, and MBA from the University of Chicago.

Abstract:

Human aspiration of ever-growing world's population will demand far more electrical energy. The world would require all energy sources, and even that may not be adequate. On top of that, many countries have mandated policies to achieve carbon neutrality by 2050.

Today, 63% of electricity and 84% of total energy rely on fossil fuels worldwide. The carbon neutrality goal requires the fossil fuels be replaced by clean energies. Most national and local energy policies put unrealistic emphasis on renewables (solar and wind), which cannot succeed due to a very low value of energy return on invested (EROI) and other shortcomings.

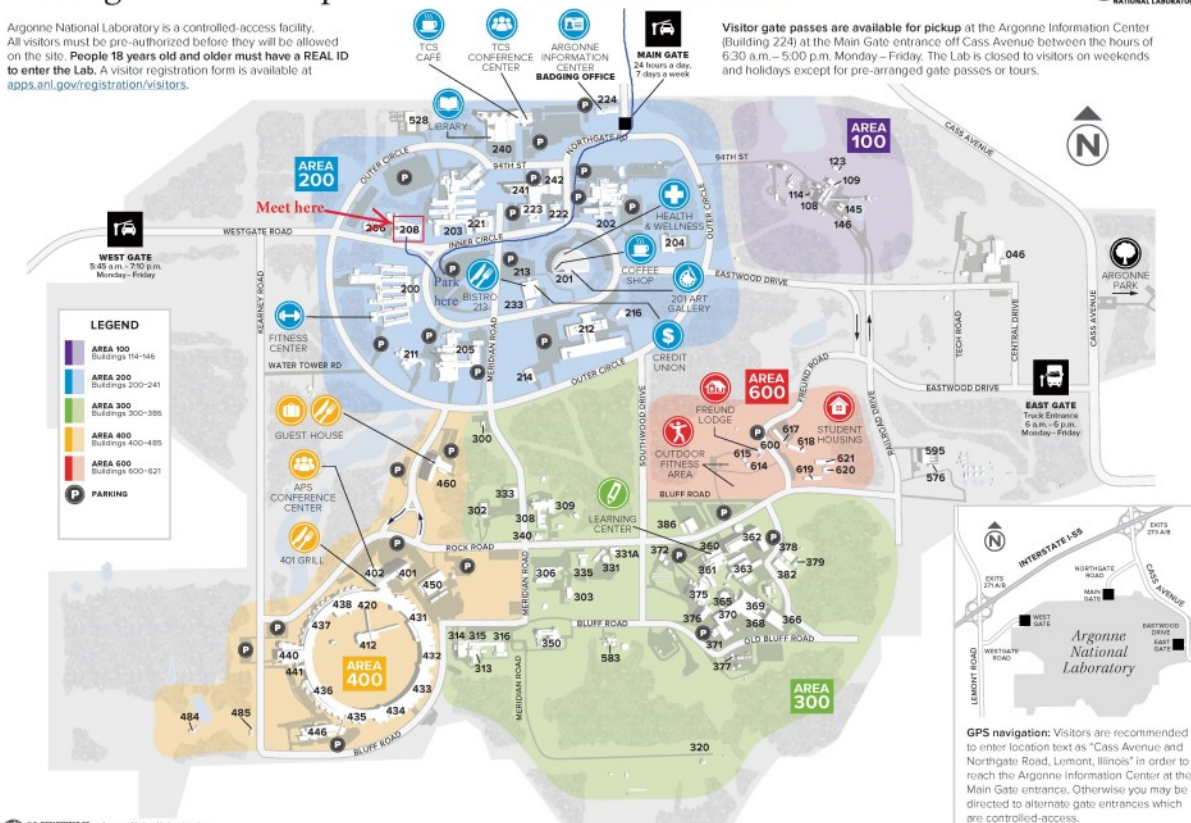
Nuclear is the only clean energy that can make carbon neutrality achievable. But today's commercial reactors utilize only 0.6% of uranium resources, which limits nuclear's energy potential. Only fast reactors with recycling can utilize essentially all uranium resources, making nuclear an inexhaustible energy source to achieve carbon neutrality. In particular, Integral Fast Reactor (IFR) with metal fuel and pyroprocessing promises inherent safety, economic recycling, waste management solution, and proliferation resistance.

Argonne Tour Map

Getting Around Campus

Argonne National Laboratory is a controlled-access facility. All visitors must be pre-authorized before they will be allowed on the site. **People 18 years old and older must have a REAL ID to enter the Lab.** A visitor registration form is available at apps.anl.gov/registration/visitors.

Enter from Cass Avenue at Waterfall Glenn



We want you for AIChE Chicago!

We need your help!

How many opportunities can you find to learn project management, delegation and leadership skills for free? Volunteering with the Chicago Section of AIChE is such an opportunity. While you're learning new skills, your professional network grows. Just about all of us are either undergoing a career change, contemplating a career change, or are wondering if our career will be changed for us. Volunteering with AIChE is a way to add skills and accomplishments to your resume.

Volunteers are needed to help with:

- * Programming – arrange speakers for monthly meetings, and arrange catering and venues
- * Logistics – arrange catering and venues
- * Newsletter Editor – prepare and publish ten monthly newsletters
- * Newsletter Contributions – write meeting summaries, contribute photos, and more
- * Engineering Outreach – coordinate three annual K-12 outreach events with high schools

and colleges

- * Professional Development and Sponsorship – arrange companies to sponsor pre-meeting talks to help fund student dinners
- * Awards and Scholarship Committees – Review applications for local Section award and scholarships
- * Midwest Regional Conference – many opportunities including programming, logistics, website, advertising, sponsorship, high school outreach, poster session and more!
- * Young Professionals – plan socials and programming for young professionals (under 35)

If you are interested in any of these positions, please contact us aichechicago@gmail.com.

<http://www.aiche.org/community/sites/local-sections/chicago/announcements/volunteerism>



NOMINATIONS REQUESTED FOR THE ERNEST W. THIELE AWARD

The Ernest W. Thiele award is sponsored by bp and recognizes the outstanding contributions to our profession by a Midwest region chemical engineer. This award was established by the AIChE Chicago Section and is presented annually to a Midwest region AIChE member. This internationally recognized award consists of an engraved plaque and \$1,000 honorarium presented at a monthly section meeting.

Nomination forms and additional information can be obtained from the Thiele Committee Chair. Completed nominations are due to the committee chair no later than **April 01, 2023**.

One of the highest honors a distinguished chemical engineer can receive is our AIChE Chicago Section Thiele award. Please consider nominating a deserving engineer for this prestigious award.

To nominate, please contact: Jeffrey Zalc

bp Solutions, P&O

phone: 630.881.5478 ; email: jeffrey.zalc@bp.com

More information about this award and the past winners:

<https://www.aiche.org/community/sites/chicago-local-section/ernest-w-thiele-award>

<https://www.aiche.org/community/sites/local-sections/chicago/thiele-award-past-winners>

NATIVE AMERICAN HERITAGE MONTH

November is National American Indian Heritage Month The Library of Congress, National Archives and Records Administration, National Endowment for the Humanities, National Gallery of Art, National Park Service, Smithsonian Institution and United States Holocaust Memorial Museum join in paying tribute to the rich ancestry and traditions of Native Americans. [Read More »](#)

DR. Sonia Ibarra: 2022 Indigenous Excellence Award / APACHE, CAXCAN, AND MEXICANA



Ibarra worked closely with local community members to gather both Western knowledge about the impact of sea otters on local shellfish populations and Native expertise and knowledge about the optimal way to achieve a sustainable balance between people and nature.

[Learn More about Dr. Ibarra»](#)



AMERICAN INDIAN SCIENCE
AND ENGINEERING SOCIETY

Professor Linda Broadbelt Elected to American Academy of Arts & Sciences



[LinkedIn announcement](#)

[American Academy of Arts & Sciences website](#)

2022 AIChE Annual Meeting: Powering the Future

The AIChE Annual Meeting is the premier educational forum for chemical engineers interested in innovation and professional growth. Academic and industry experts will cover a wide range of topics relevant to cutting-edge research, new technologies, and emerging growth areas in chemical engineering.



Links:

[Conference Website](#)

[Technical Program](#)

[Register](#)

[Meeting FAQ](#)

2022-2023 Meeting Schedule and Speakers

Month	Date	Speaker	Affiliation	Topic
Nov	Thurs 17th	Yoon Il Chang	Argonne National Laboratory	Nuclear Energy Option to Achieve Carbon Neutrality
Jan	TBD		Joint with Chicago ACS	

Upcoming AIChE Conferences, Meetings and Webinars

AIChE Conferences	
Nov 4, 2022	Hydrogen: The Importance of Collaboration for a Safe and Sustainable Future , Virtual
Nov 7 - 9, 2022	2022 Industry 4.0: Digital Transformation Conference (IDTC22) AIChE, Palmer House a Hilton Hotel, Chicago, IL
Nov 9, 2022	2022 Chevron Sponsored Virtual CCPS Process Safety Faculty Workshop , Virtual
Nov 9 - 10, 2022	Trans Allyship Safe Zone Ally Training Workshop , Hotel Amari Pattaya, Pattaya City, Thailand
Nov 13 - 18, 2022	2022 AIChE Annual Meeting , Phoenix Conventional Center, Phoenix, AZ
Nov 29, 2022	CCPS South East Asia Meeting , Hotel Amari Pattaya, Pattaya City, Thailand
Nov 29, 2022	CCPS South East Asia Meeting , Virtual



MRC-15 April 11-12, 2023

The AIChE Midwest Regional Conference (MRC) continues into its 15th year. Organized by the [Chicago Local Section](#) and hosted at the [University of Illinois Chicago \(UIC\)](#), MRC-15 provides an opportunity for engineers and scientists in the region and beyond to learn about new technologies and refresh their knowledge, as well as network with peers. Abstracts may be submitted for the following topics:

- Advances in Refining & Biorefining Technology
- Bioengineering & Nanotechnologies
- Catalysis & Reaction Engineering
- Energy Storage
- Environmental Compliance & Remediation
- Fluid Properties, Fluid Dynamics, & Transport Phenomena
- Green Engineering & Climate Solutions
- Machine Learning & Optimization
- Polymer Science
- Process Safety & Occupational Health
- Other Emerging Topics in ChE

Submission Timeline

Abstract Submission Deadline: Monday, January 9, 2023

Acceptance Status: Monday, January 30, 2023

Draft Presentation or Poster Submission: Friday, March 17, 2023

MRC is currently scheduled to be held *in-person* at UIC. Any changes to conference format will be announced as early as possible. The planning committee is continuing to monitor local, state, and federal guidance related to in-person conferences. COVID-19 safety protocols will be provided in the weeks leading up to the conference.



2023 AICHE Midwest Regional Conference
April 11-12, 2023
Chicago, IL

Hosted by University of Illinois Chicago (UIC)
Organized by Chicago Local Section of AICHE

Volunteers needed for 2023 MRC

The 2023 AICHE Midwest Regional Conference organization is well underway. We are still seeking volunteers for several positions:

Onsite Coordinator: *responsible for (i) printing of name badges and (ii) creating, printing, and displaying any signage required for the conference.*

Professional Development: *Issue PDH (continuing education) certificates, as well as manage associated sign-in/out sheets.*

Session chairs: *We also need your help in organizing the technical sessions. This position includes soliciting three speakers for your session that can be about a relevant subject. It is a great opportunity to get to know your peers in your interest area, as well as expand your network of friends. We would like to have two co-chairs for each session so in case of any unforeseen circumstances, the session can still be held at the given time slot. Our estimate for the time required to perform this task is around 10-15 hours excluding the actual time at the conference. Please note that there are several sessions in parallel and we need many volunteers for this position.*

If you have an interest in any of these positions or if you want to volunteer for any other MRC position, please contact Dr. Jessica Morris at jmorris@exponent.com. More information is available at the conference website:

<https://www.aiche.org/conferences/midwest-regional-conference/2023>

Remembering “Sank”

We are very sad to share that Mr. Narayanan Sankaran (“Sank”) passed away recently. Our sincere condolences go out to his family and friends.

Sank volunteered with the AIChE Chicago section and continued to be a highly active member and frequent attendee at our monthly meetings. His friendly presence will be greatly missed.

AIChE Chicago Section



N. Sankaran (“Sank”) passed away peacefully on November 6, 2022 at Northwest Community Healthcare. Sank had a long career in Chemical Engineering. He started off at a Nitro-glycerin/munitions plant in India but left that position because his mother insisted that he not work there anymore. He then transitioned to oil refining where he spent the rest of his career; first with Burmah Shell and Royal Dutch Shell (BIPM). Then, in 1969 he emigrated to the United States and had a long career with Unocal and then with UOP/Honeywell. Sank was very proud of his AIChE membership and of the fact that he had been a member of the group for over 50 years. He loved Chicago sports teams, the Bears, the Cubs, and the White Sox. Sank is survived by his wife, Meena of 65 years, his two children, and six beloved grand-children.

Memorial donations may be made to a charity of your choice. Suggestions are the AIChE Minority Affairs Committee (MAC) Fund or various other scholarship funds which may be found on the AIChE Foundation page, as a tribute to Sank’s interest and accomplishments in chemical engineering. The local section also maintains an AIChE Chicago Scholarship Fund to promote the pursuit of chemical engineering education which may be contributed to during the monthly meeting registration process or by contacting AIChE Chicago (aichechicago@gmail.com).

AIChE Foundation: <https://www.aiche.org/giving/get-involved/donate-online>

MAC Fund: <https://www.aiche.org/giving/impact/funds/mac-fund>

Attention Students and Parents!

If you are an undergraduate chemical engineering student or have a son or daughter that plans to study chemical engineering you may be interested in the Chicago Section's scholarship program.

Applications are due **March 1st**.

Please [click here](#) to read rules and eligibility.

For a Link to the Electronic Version of the AIChE Chicago Scholarship Application Form, Click on the Link Below:

<http://form.jotform.us/form/42814483647159>



AICHE CHICAGO SECTION INFORMATION

AIChE Chicago Section
13964 Doral Lane
Homer Glen, IL 60491
aichechicago@gmail.com

<https://www.facebook.com/AIChEChicagoSection>

<https://www.linkedin.com/groups/4538581>

<https://www.aiche.org/community/sites/local-sections/chicago>

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AIChE Chicago Section Officers/Volunteers

Chair	<i>Sarika Goel</i>	Directors at Large	<i>Robert Tsai</i>
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Past-Chair	<i>Ha Dinh</i>		<i>Kashif Uddin</i>
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Directors at Large	<i>Jarad Champion</i> <i>Janet Werner</i>		

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- Access to CareerEngineer—a comprehensive job site tailored to chemical engineers
- Access to the AIChE eLibrary—a wealth of information from Knovel Life Sciences and the McGraw-Hill AccessEngineering Library collections

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