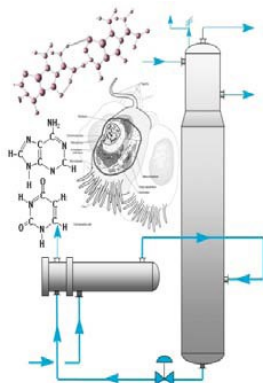


# September Newsletter



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## AIChE Chicago September Meeting & Water Reclamation Facility Tour

### Dr. Dominic Brose PFAS, Wastewater, and Biosolids Processing



**Date:** *Thursday September 19, 2019*

**Tour Location:** Stickney WRP  
6001 West Pershing Rd  
Cicero, IL 60804

Tour 5:00 PM - 6:00 PM

**Program Location:** Paisan's Pizza  
6226 W. Ogden Avenue, Berwyn, IL 60402

**Cost:**      **Members: \$40**                      **Non-Members: \$50**  
                  **AIChE Global Member Only: \$45**  
                  **Students: \$10**                      **Unemployed/Retired: \$15**

Click on the link to register!

<http://www.cvent.com/d/dyqthr>

Everyone attending the Tour **MUST** download a waiver [MWRD Greater Chicago Waiver AIChE Sept19](#). The **completed waiver** along with a copy of your **drivers license or other government-issued photo ID** must be **scanned and uploaded** with your registration **by September 9th**.

## Chair's Corner

I would like to start the new fiscal year 2019/2020 for the AIChE Chicago Section by thanking Bob Tsai for his work as Chair during the previous year. One year ago, Bob started in the Board of Directors as Chair Elect, only to quickly ascend to the position of Chair from an early departure in the Board of Directors. Bob deserves every commendation for serving as Chair without hesitation.



As the Chicago Section's Chair for 2019/2020, I would like to introduce myself to those that I have not had the benefit of meeting yet. I am a proud alum of the University of Illinois at Urbana-Champaign's chemical engineering department (2003). I also hold a master's degree in environmental engineering from Northwestern University. I'm a senior member of AIChE and have been actively involved in the Chicago Section since 2014 when I returned to Chicago after consulting for several years in the San Francisco Bay Area. My wife and I enjoy raising our three sons (5 years, 3 years, and 1 month) close to our families in Illinois.

I'm honored to serve the Chicago Section with an outstanding group of volunteers. The long-term resiliency of the Chicago Section (initially founded in 1924 as the first AIChE local section) has been borne by the high level of commitment and performance of those serving as treasurer, secretary, directors, and on several committees. Over the next year, my focus is on enhancing the effectiveness of the Chicago Section. We are already a lean organization with high-performing volunteers. I see a few ways that I, as Chair, can assist our volunteers to be more effective:

- Recruiting new volunteers;
- Helping to develop priorities for volunteer efforts and financial resources;
- Assisting the migration of Chicago Section operations to Google's G Suite IT platform; and
- Developing a document retention policy based on G Suite.

If you are interested in volunteering for our monthly meetings, K-12 outreach, newsletter, or the Midwest Regional Conference, please contact [aichechicago@gmail.com](mailto:aichechicago@gmail.com). Volunteering is a great opportunity to learn project management, delegation, and leadership skills. The Chicago Section has all sorts of volunteering opportunities, including those that can be done remotely or for only a few hours each month.

For the development of Chicago Section priorities, I will be leading an effort to develop a mission statement for the Chicago Section. Other local sections have vision and mission statements, and the Chicago Section's current operations already reflect an informal core mission that is consistent with AIChE Global's mission. I have summarized the Chicago Section's informal core mission below:

- Promote excellence in chemical engineering education and local practice;
- Advance the development and exchange of relevant knowledge;
- Uphold and advance the profession's standards, ethics and diversity;
- Enhance the lifelong career development and financial security of chemical engineers through networking;
- Stimulate collaborative efforts among industry, universities, and professional societies; and
- Achieve excellence in operations of the Chicago Section.

I am requesting that Chicago Section members comment to [aichechicago@gmail.com](mailto:aichechicago@gmail.com), if they feel that the core mission statement above is sufficient to meet their goals as a member. At the end of this fiscal year, we will finalize the mission statement to help guide our organization and provide more long-term resiliency.

The programming committee for our monthly meetings has already made excellent progress lining up several interesting technical speakers over the next year, and our MRC committee has tentative plans set for the Midwest Regional Conference in March 2020. I am excited about the coming year and hope that I have an opportunity to meet all of you at one of our events!

Jarad L. Champion, P.E., BCEE

AIChE Chicago Section Chair

AIChE Senior Member

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## ***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 \$1000 honorarium presented at our sectional 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, 2020**.

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

Jim Simnick

BP Amoco Complex, 603-2W

150 W. Warrenville Road, Naperville, IL 60566

Ph 331-702-4071 (office)

Ph 630-269-8662 (cell)

fax 630-420-4832

email: [james.simnick@bp.com](mailto:james.simnick@bp.com)

## September Meeting

*Dr. Dominic Brose*

*Senior Environmental Research Scientist, Monitoring and Research Department, Metropolitan Water Reclamation District of Greater Chicago*

### **Biography:**



Dr. Dominic Brose is a Senior Environmental Research Scientist at the Metropolitan Water Reclamation District of Greater Chicago where he leads planning efforts for the processing and beneficial reuse of biosolids. His research focuses on emerging technologies and the occurrence and fate of trace contaminants in the wastewater and biosolids processes. Prior to MWRDGC, Dr. Brose was a Program Officer for the Science and Technology for Sustainability Program at the National Academies of Science, Engineering, and Medicine in Washington, DC where he focused on urban sustainability and the recovery and reuse of materials from waste streams. As an Environment Scientist for ToxServices, LLC in Washington, DC, he conducted risk assessments and evaluated consumer product formulations for hazards and environmental fate for the U.S. EPA's Safer Choice labeling program. Dr. Brose received his B.S. in Natural Resources and Environmental Science from Purdue University and M.S. and Ph.D. in Environmental Science and Technology from the University of Maryland.

### **Abstract:**

#### ***"PFAS, Wastewater, and Biosolids Processing"***

Per- and polyfluorinated substances (PFAS) are a group of man-made chemicals used in consumer products to make them non-stick and water resistant. They are also found in firefighting foams and many industrial processes. These compounds have characteristics that, although make them useful, result in them being referred to as "forever chemicals" because of their persistence in the environment. PFAS compounds are ubiquitous in our daily lives and as a result, treated wastewater and biosolids convey them at part per billion levels, even where there is no significant industrial input to a wastewater system. In response to an increasing interest in PFAS, the U.S. EPA held a historic national PFAS summit in May 2018 and subsequently released their PFAS Action Plan. This presentation will overview relevant federal and state regulatory actions on PFAS and discuss emerging technologies and source reduction for addressing these compounds in the wastewater sector.

***Click on the link to register!***

<http://www.cvent.com/d/dyqthr>

## ***Important Information***

AICHE Chicago will be hosting a Plant tour September 19th at the Metropolitan Water Reclamation District of Greater Chicago Stickney facility located at 6001 W Pershing Rd. Cicero, IL 60804. Dinner and a presentation will be at Paisan's Pizza in Berwyn.

Registration will include a tour starting at 4:45 PM. Due to Homeland security, tour registration will end September 9th. Allotted spaced on the busses will be limited. No walk-ins will be allowed for the tour.

Everyone attending the Tour **MUST** download a waiver [MWRD Greater Chicago Waiver AIChE Sept19](#). The **completed waiver** along with a copy of your **drivers license or other government-issued photo ID** must be **scanned and uploaded** with your registration **by September 9th**.

**Tour Location:** Stickney WRP  
6001 West Pershing Rd  
Cicero, IL 60804  
  
Tour 5:00 PM - 6:00 PM

**Program Location:** Paisan's Pizza  
6226 W. Ogden Avenue, Berwyn, IL 60402

### **Agenda**

4:45-5:00: Meet at Stickney Water Reclamation Plant  
5:00-6:15: Tour at Stickney  
(allow 15 min for driving between Stickney and restaurant)  
6:00-6:45: Meeting registration at restaurant  
6:45-7:45: Dinner  
7:45-8:00: Section Announcements  
8:00-9:00: Technical presentation

***Click on the link to register!***

<http://www.cvent.com/d/dyqthr>

## **Reminder!**

**September Meeting Tour+Dinner Registration ends on September 9th, with NO WALK-INS!**

**However, September Meeting Dinner Only registration will continue, so if you don't register in time for the tour, join us for the Dinner and Technical Presentation!**

# 2019-2020 Chicago Section Officers

Congratulations to Elected 2019-2020 AIChE Chicago Section officers

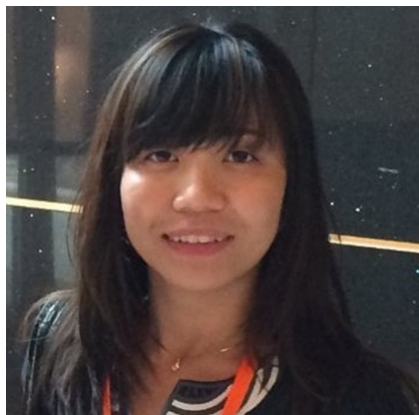
**Chair: Jarad Champion**



**Chair-Elect: Jeff Zalc**



**Co-Vice Chair Meeting Program: Ha Dinh**



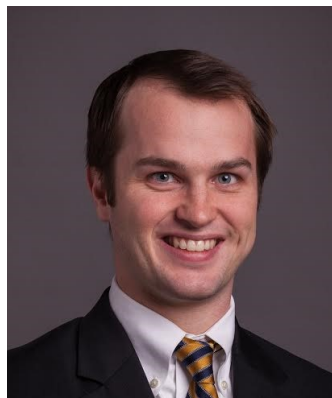
**Co-Vice Chair Meeting Program: Sarika Goel**



**Treasurer - McKay Rytting**



**Secretary - Ben Ketter**



**Director at Large- Pat Shannon**



## Congratulations to YP Chicago Elected Officers

**Chair:** Ruben Barajas

**Vice chair:** Connor Wegner

**Programming Committee:** Carissa Kloncz  
Eleftherios (Larry) Avtzis

### *YP Event in September*

We are organizing a social event in downtown Downers Grove to kick off the new YP calendar year! The venue is walking distance from the Downers Grove Metra stop (BNSF Railway Line). We are having the event on a Monday where traffic should be light.

#### **Event Details**

**What:** YP Social

**Where:** Pierce Tavern

5135 Main St

Downers Grove, IL 60515

[piercetavern.com](http://piercetavern.com)

(free parking at Downers Grove Parking Garage)

**When:** Monday, September 23rd, starting at 5:30 PM

Please RSVP to Larry at [eleftherios88@gmail.com](mailto:eleftherios88@gmail.com) or by responding to this email by Friday, September 20th at the latest.

Hope to see you there!

AICHe-YP Chicago



ILLINOIS INSTITUTE  
OF TECHNOLOGY

If you haven't registered yet, don't miss out on the  
**2019 Darsh T. Wasan Lecture**  
Friday, September 13, 2019

**REGISTER NOW**

## **Dr. Ellen Ochoa**

*Former Director of NASA's Johnson Space Center in Houston*



### **"Building and Operating the International Space Station"**

Free and Open to the Public

**Lecture 3 p.m. | Hermann Hall, Ballroom**  
**Reception 4 p.m. | Hermann Hall, Gallery Lounge**

Illinois Institute of Technology  
Hermann Hall, Ballroom  
3241 South Federal Street  
Chicago, IL 60616

*Business attire recommended*

Complimentary parking available [\[see map\]](#).

**REGISTER NOW**



# “CALL FOR CONTRIBUTIONS”



**AIChE®**  
**MIDWEST**  
**REGIONAL**  
**CONFERENCE**

2020 AIChE Midwest Regional Conference

*Chicago, IL – March 11-12, 2020*

Hosted by Illinois Institute of Technology

Organized by Chicago Local Section of AIChE

## Programming Areas

- ⇒ Energy and Sustainability
- ⇒ Catalysis and Reaction Engineering
- ⇒ Refining and Petrochemical Processing
- ⇒ Process Safety and Occupational Health
- ⇒ Environmental Compliance and Remediation
- ⇒ Biomedical, Pharmaceutical and Nano-Engineering
- ⇒ Process Engineering, Modeling, Control and Optimization
- ⇒ Fluid Properties, Fluid Dynamics and Transport Phenomena



Submission deadline: **October 31, 2019**

Submission site: [tinyurl.com/Submit2MRC2020](http://tinyurl.com/Submit2MRC2020)

For conference details: [www.aiche.org/Chicago](http://www.aiche.org/Chicago)

### **Submission questions?**

Contact the Programming Chair at [chmielewski@iit.edu](mailto:chmielewski@iit.edu)

### **Updated information at:**

<https://www.aiche.org/community/sites/local-sections/chicago/new-mrc12-2020>

## Sponsorship Opportunities

Each year many practitioners, professors and students attend this annual event. Your sponsorship support STEM activities and provides a great avenue to advertise your business. For more information contact **Azita or Janet**



## 2019 AIChE Board of Director Election

Dear Members,

It's election season and time for you to decide who will be on the Board for 2018! **Online voting is open until 11:59 pm, October 14, 2019.**

The election will commence on September 9th. Ballots will be mailed on August 26th. Due to new international mail restrictions, no ballots will be mailed to international members, however they will all receive emails that include the link to vote electronically. The electronic proxy voting site is now available: [AIChE.SocietyElection.com](http://AIChE.SocietyElection.com). Instructions for electronic proxy will be included with the ballot and emailed to members with email addresses on file. As a reminder, your 2019 dues must be paid in full by September 1st in order to be eligible to vote. All ballots must be received by October 14th.

The Election results will be announced on November 11 at AIChE's Annual Meeting in Orlando, FL, and in the December issue of CEP.



## Slate of Candidates

### For President-Elect

<a href="#">Gregory Frank</a>	Amgen, Inc
<a href="#">Deborah L.</a>	Operations and Safety

### For Director

<a href="#">Linda Broadbelt</a>	Northwestern Univ.
<a href="#">Douglas S. Clark</a>	Univ. of California, Berkeley
<a href="#">Brian H. Davison</a>	Oak Ridge National Laboratory
<a href="#">Robert M. Kelly</a>	North Carolina State Univ.
<a href="#">Robert D. Kiss</a>	Sutro Biopharma
<a href="#">Ann L. Lee</a>	Juno Therapeutics
<a href="#">Peter Lodal</a>	Eastman Chemical Co.
<a href="#">Todd Pryzbycien</a>	Rensselaer Polytechnic Institute.

## For President-Elect

### Gregory Frank

Gregory Frank is Principal Engineer at Amgen, with responsibilities for the company's biotherapeutic process development and technology innovation. He has received eight Amgen corporate awards. His 30 years of experience include roles as Director of Engineering and EH&S at Promega, and in process development and commercialization at Merck. Greg is a Fellow and 34-year member of AIChE. His service includes: Board of Directors (2016–2018); Society for Biological Engineering board member; 2008 Spring Meeting Program Co-Chair; Strategic Planning Committee; and member and board liaison to the Career and Education Operating Council (CEOC). His 24 years of programming leadership encompass the chairing of numerous sessions, and topical and stand-alone conferences. He led the academic-industrial collaboration that reinvigorated Area15b (Pharmaceuticals), expanding programming tenfold from 1993 to 2002. He also co-founded the Pharmaceutical Discovery, Development and Manufacturing (PD2M) Forum. Among his publications, Greg co-authored the new bioprocessing section in Perry's 9th Edition. Amgen has recognized Greg's leadership in nonprofits with its 2013 Volunteer of the Year Award, notably for providing STEM resources for at-risk youth and co-founding Goals for Life. He earned his chemical engineering degrees at Stevens Tech (BE, PhD) and the Univ. of Delaware (MChE). He received the Link Foundation Fellowship for innovative energy research.



### Statement:

If elected, I will pursue strategies that advance AIChE's leadership in our diverse profession. We are uniquely qualified to address issues in education, manufacturing, research, health, environment, and safety. We prepare students for the future and support young professionals' careers. I will:

- Advance AIChE member benefits spanning safety (CCPS), lifelong learning (AIChE Academy), advanced manufacturing (RAPID), technical resources (journals, webinars), professional advancement (conferences, career resources), and connections (technical divisions, local sections).
- Work to provide transformative technologies, platforms, and networks to strengthen members' technical and business skills.
- Build multidisciplinary communities serving industrial, academic, governmental, and student interests in topical, career, societal, and entrepreneurship arenas. Such communities provide vital connections among R&D and entrepreneurs, students and practitioners, and innovators and opportunities, while reinforcing our profession's commonality among its members.

AIChE provided me with many opportunities to develop leadership skills. It's important to me to promote growth and leadership opportunities for young professionals, even as we build on our existing experience and strengths. I will diligently work to identify and develop effective, diverse leaders at all stages of their careers, benefiting members and AIChE. Contact me at [gfrank@amgen.com](mailto:gfrank@amgen.com).

## For President-Elect

### Deborah L. Grubbe



Now self-employed, Deborah Grubbe worked in executive, operations, engineering and safety roles with DuPont and BP. She was a member of the NASA Aerospace Safety Advisory Panel, and consulted in safety culture with the Columbia Shuttle Accident Investigation Board. Deb currently serves on the Engineering Advisory Council at Rowan Univ., and on the Chemical Engineering Advisory Board at Drexel Univ. She served as the Chair of the Visiting Committee of the National Institute of Standards and Technology in 2007. Deb obtained a BS in chemical engineering from Purdue Univ. and attended the Univ. of Cambridge, U.K., as a Winston Churchill Fellow. She is a registered Professional Engineer in Delaware, a Chartered Engineer in the U.K., and a Fellow of both AIChE and the Institution of Chemical Engineers (IChemE). Deb has worked with AIChE in the following positions: Board of Directors (2005–2007); Chair, 2008 Blue Ribbon Awards Committee; Director, Virtual Local Section; Chair, Institute for Sustainability; Chair, Center for Ethical Practice; Vice Chair, Public Affairs and Information Committee; Chair, Licensing and Professional Development Committee; and member of the Foundation Board, the Career and Education Operating Council (CEOC), and the Center for Chemical Process Safety (CCPS) Advisory Board.

### Statement:

AIChE is a strong institution, and chemical engineering continues to be a critical part of the global economy. AIChE has a solid financial footing and will continue to position itself as the leading “convener” for discovery and innovation. We can strengthen and further position our Institute to bring together potential partners in academia, government, industry, and other science and engineering organizations to accelerate needed solutions. If I become President-Elect, my three goals will be: 1) to build on our strengths and to improve the visibility and impact of AIChE as the “go-to” global organization for chemical engineering, 2) to strengthen and grow our focused technical groups through unique and novel partnerships, and 3) to use technology to support and enhance recognition, awards, and engagement for all members.

AIChE has outstanding technical and organizational leaders, and we can always do more to recognize volunteer efforts and to say “thank you.” We currently have many interactions with industry and with academia, and we also have a strong AIChE Foundation to fund new programs and first-time activities. My forty-plus years as an AIChE member, along with my volunteer experience, strengthen my commitment to work with you, our board, and our staff to implement the AIChE strategic plan over the next three years.

I am interested in your ideas and concerns and would like to hear from you. Please contact me via email: [deb@opsandss.com](mailto:deb@opsandss.com).

## For Director

### Linda Broadbelt

Linda Broadbelt is the Sarah Rebecca Roland Professor in the Dept. of Chemical and Biological Engineering and the Associate Dean for Research of the McCormick School of Engineering and Applied Science at Northwestern Univ. She served as Chair of Northwestern's Dept. of Chemical and Biological Engineering from 2009 to 2017. She also served as the Past Chair, Chair, First Vice Chair, and Second Vice Chair of AIChE's Catalysis and Reaction Engineering Div., and previously served on the Executive Board of the Program Committee. She is currently an associate



editor for Industrial & Engineering Chemistry Research. Her honors include selection as the winner of the R. H. Wilhelm Award in Chemical Reaction Engineering from AIChE, the E. V. Murphree Award in Industrial Chemistry and Engineering from the American Chemical Society, and the AIChE Women's Initiatives Committee's Mentorship Excellence Award. She is a Fellow of AIChE, a Fellow of the American Association for the Advancement of Science, a Fellow of the American Institute for Medical and Biological Engineering, and a Fulbright Distinguished Scholar. She was elected to the National Academy of Engineering in 2019.

### Statement:

AIChE has been pivotal in shaping my career over the past 30 years, and I am honored to be nominated as a candidate for director. I will aim to contribute to AIChE's success in catalyzing the careers of other chemical engineers and ensuring that AIChE continues to offer timely and high-quality programming and services for its members. In my leadership roles with the Catalysis and Reaction Engineering Div., one notable activity that I championed was a new award for younger members of the division, and, as an Institute director, I would seek to promote other initiatives that engage and reward our young professionals and provide them with leadership opportunities. Through my involvement with the Executive Board of the Program Committee, I led the Meeting Quality Task Force, which was focused on data analysis of factors correlated with meeting and paper quality. A key factor was the ability of the meeting to attract global attendance, which varied significantly from year to year.

If AIChE is to deliver on its mission of being the global home of chemical engineers, we must continue to ensure that we provide content and services that are of value to chemical engineers around the world. As a director, I will plan programs that are focused on ensuring diverse participation from across the globe.

I welcome your feedback about additional areas where I can help define directions for our Institute. Send email to me at [broadbelt@northwestern.edu](mailto:broadbelt@northwestern.edu).

## For Director

### Douglas S. Clark

Doug Clark is Dean of the College of Chemistry and G. N. Lewis Professor of Chemical and Biomolecular Engineering (CBE) at the Univ. of California, Berkeley. Clark previously served as Chair of CBE and Executive Associate Dean of the College. His research is in biochemical engineering, with particular emphasis on biocatalysis, biomaterials, and bioenergy. Among his numerous honors and awards, Clark was elected to the National Academy of Engineering, and he is also a Fellow of the American Association for the Advancement of Science and the American Institute of Medical and Biomedical Engineers. He received the James E. Bailey Award from AIChE's Society for Biological Engineering, the Marvin J. Johnson Award in Microbial and Biochemical Technology from the American Chemical Society, and the Food, Pharmaceutical and Bioengineering Award of AIChE. Since 1995, he has served as Editor-in-Chief of *Biotechnology and Bioengineering*.



### Statement:

As an AIChE member since the early 1980s, I have been privileged to take part in the remarkable evolution of chemical engineering's profound impact on society. Over the past four decades, the importance of chemical engineering has grown in industries spanning a broad range of emerging technologies and new products, including advanced materials, biologics, and alternative energy. Furthermore, chemical engineers are applying principles of optimization at ever-decreasing scales, including the design of molecules and molecule-based materials.

As a chemical engineer and dean of UC Berkeley's College of Chemistry - one of the world's few academic institutions that houses chemistry and chemical engineering within a single college - I have had a front-row-seat to the expanding opportunities of chemical engineers at the interface of our discipline with chemistry, biology, and materials science. It has been a very exciting time to be a chemical engineer, and even greater opportunities lie ahead.

This is not to say that the intellectual core of chemical engineering is eroding or outdated; quite the opposite, it remains a solid foundation for the support of established industries, as well as new fields. AIChE is an ideal organization through which we can identify and promote the most exciting research and commercial opportunities to further the development of chemical engineering on all fronts, while ensuring that our academic programs continue to serve a diverse population of students and produce versatile graduates capable of tackling the world's most pressing problems.

I would welcome the opportunity to contribute toward this mission and work to ensure that AIChE is best enabled to foster the professional growth and intellectual enrichment of all its members. Please feel free to contact me with any suggestions or comments at [clark@berkeley.edu](mailto:clark@berkeley.edu).

## For Director

### Brian H. Davison

Brian Davison is Chief Scientist for Biotechnology at Oak Ridge National Laboratory (ORNL). He is also the Chief Science Officer of the U.S. Dept. of Energy's (DOE's) new Center for Bioenergy Innovation, and the previous BioEnergy Science Center. He is a Fellow of AIChE, the Society of Industrial Microbiology and Biotechnology (SIMB), and the American Institute for Medical and Biological Engineering (AIMBE). He has served on the Board of AIChE's Society for Biological Engineering (SBE) since 2012, and on numerous DOE roadmaps. Davison is an editor of Biotechnology for Biofuels. He received an R&D 100 Award, SIMB's C. D. Scott Award, and ORNL's Science Communicator (2007) and Technology Transfer (2018) awards. He is an adjunct professor in chemical and biomolecular engineering at the Univ. of Tennessee.



He founded ORNL's LGBTQ employee group in 1995. He has also helped to develop public bio-energy science lessons with the Creative Discovery Museum ([learnbiofuels.org](http://learnbiofuels.org)). He earned his BSE from the Univ. of Rochester and his PhD from CalTech, both in chemical engineering.

### Statement:

Chemical engineers are traditionally defined by our academic training; actually, we are defined by what we DO in diverse areas. Whether we work in academia, industry, or government, we all want our work to be communicated and used. Our conferences are the primary means for sharing information, and provide networking opportunities to accelerate our shared goals. I have been an active member of AIChE for over 30 years because I find colleagues in AIChE who share my goals and the value we place in our discipline as a means of solving serious challenges.

These personal goals of improved communication, networking, and diversity match AIChE's strategic goals. We need to support sections, divisions, and entities like SBE to continue to diversify their programming - at major meetings and through targeted conferences. Since I recently helped start an SBE conference, I am aware of needs for mentorship in organizing meetings - especially when encouraging newer members to lead. We need to showcase the informal and formal training opportunities (i.e., the Leadership Development Program) offered by AIChE. By expanding opportunities for professional development and leadership, AIChE will increase its diversity, both personal and professional.

Beyond technical talks, communication extends to informing the public and speaking to management. This was reinforced at a career panel at our local AIChE student chapter, when I and others emphasized communication skills. Thus, another personal goal will be offering training and materials for public communication on key issues. I am honored to be re-nominated for director and pledge to listen via [bhdcheme@gmail.com](mailto:bhdcheme@gmail.com) to help AIChE serve its members and society.

## For Director

### Robert M. Kelly

Bob Kelly is Alcoa Professor of Chemical and Biomolecular Engineering and Director of the campus-wide Biotechnology Program at North Carolina State Univ. He served as Chair of AIChE's Food, Pharmaceutical and Bioengineering Division (Div. 15), and as Chair of the Academic Advisory Board of AIChE's Society for Biological Engineering. Kelly's research in the biology and biotechnology of extremophilic microorganisms has been recognized by national and international awards, including AIChE's Food, Pharmaceutical and Bioengineering Award, the American Chemical Society's Marvin Johnson Award in Biochemical Technology, and the American Society for Microbiology's DuPont Industrial Biosciences Award. Earlier in his career, he worked at DuPont's Marshall Laboratory in Philadelphia, PA, as a process engineer and was on the chemical engineering faculty at Johns Hopkins Univ. Kelly holds Bachelor's and Master's degrees in chemical engineering from the Univ. of Virginia and a PhD in chemical engineering from North Carolina State Univ.



### Statement:

My association with AIChE goes back to being student chapter president as an undergraduate at the Univ. of Virginia. Over the years, I have witnessed major changes in our discipline, including the integration of the life sciences and materials sciences as foundational elements of chemical engineering. AIChE must be inclusive, transparent in its operation (financially and administratively), and responsive to the ever-changing dynamics that relate to our members' needs. As a director, I will work to make this happen and welcome your comments and suggestions ([rmkelly@ncsu.edu](mailto:rmkelly@ncsu.edu)).

*Engaging younger professionals in AIChE:* There is often a disconnect between younger engineers and AIChE upon graduation. I would like to see these engineers maintain a close association with student chapters at their alma maters (and chapters local to their place of employment) to pass along career advice to their undergraduate colleagues. This could be done through online, near-peer mentoring and by serving on both virtual and in-person informational panels. Social media provides some strategic avenues for making this happen. It is critical to establish a pipeline between younger chemical engineers and AIChE.

*Re-assessing the discipline:* Chemical engineering education needs to prepare one for an ever-expanding range of career directions. However, it is not clear that the current scope of our undergraduate curriculum reflects this disciplinary dynamic. It is time to re-assess our educational paradigm by connecting with chemical engineers at various career stages to incorporate their feedback into our curriculum and accreditation standards. This can be done through well-designed surveys and in-person and virtual "town meetings" led by AIChE. We need to listen to, embrace, and leverage the wisdom of our members.



## For Director

### Robert D. Kiss

Bob Kiss is Vice President of Process and Analytical Development at Sutro Biopharma, a company developing novel human biotherapeutics. He has more than 27 years of industrial biotechnology experience. Prior to Sutro, Bob spent 24 years at Genentech, where his final role was Senior Director and Distinguished Engineer leading cell culture development. His career focus areas have included control of product quality, barriers to adventitious agent contamination, and process scaleup and transfer for cell culture and fermentation processes. He currently focuses on industrializing the Sutro cell-free protein synthesis platform. He has participated in numerous industry/academia consortia within the biotechnology community, and was a director of AIChE's Food, Pharmaceutical and Bioengineering Div. Bob received a BS (Univ. of California, Davis), MS (MIT), and PhD (MIT), all in chemical engineering. He is a licensed Professional Engineer and an elected member of the National Academy of Engineering.



### Statement:

I recall how joining AIChE as a student opened my eyes to the interesting things chemical engineers can do in the workplace. I continued to learn what it means to be a ChE through conferences, career growth, and working with and mentoring many engineers over the years. I would love the opportunity to help AIChE fulfill its six strategic priorities, particularly, leadership in advancing our profession, diversity and inclusion as it relates to early engagement, and addressing societal issues by utilizing our expertise. My approach would include leveraging my network within the biotechnology community to engage chemical engineers who can help further those priorities while also strengthening the biotech community's ties to AIChE.

A key element of the societal strategic priority is clearly that of sustainability. Chemical engineers helped drive the industrialization of the world's societies and economies, contributing to today's standards of living. With that progress and prosperity has also come significant learning. We now understand that the basis upon which we have built much progress is compromising future human habitability of our planet. In my view, chemical engineers and AIChE are key resources that can and will drive the technical activities needed to avoid dramatic climate change. As an AIChE director, I would look to leverage the role, in concert with my NAE membership, to further AIChE's efforts in this critical strategic area. Let's work together to drive the necessary changes in how human societies are fueled and powered so that we can sustain this wonderful planet as we know it.

Thank you for your support of my candidacy and my interests in giving back via the AIChE community. I welcome your feedback at [bkiss@alum.mit.edu](mailto:bkiss@alum.mit.edu).

## For Director

### Ann L. Lee

Ann Lee is Head of Cell Therapy Development and Operations at Celgene, which acquired Juno Therapeutics where she was Executive Vice President of Technical Operations. She was previously Senior Vice President at Genentech, and Head of Global Technical Development at Roche, responsible for delivering the R&D pipeline and providing technical support for all commercial products. Prior to that, at Merck, she was Vice President of Chemical Technology and Engineering in the Manufacturing Div., overseeing process engineering and technical operations at 10 chemical sites around the world. She also had project leadership and functional leadership roles in the Merck Research Labs working on vaccines and bioprocess development. She studied chemical engineering at Cornell (BSChemE) and Yale (PhD). She is a member of the American Institute of Medical and Biological Engineering, the National Academy of Engineering, and the American Academy of Arts and Sciences. Over the course of her career, she has contributed to the commercialization of 23 new vaccines and medicines.



### Statement:

My life's work and passion for the past 30 years has been developing vaccines and medicines that save lives or make a real difference to patients. I want to pay it forward using my wisdom and experience to help AIChE better equip our profession to take on societal challenges. Below are three areas I am passionate about.

*Innovation:* Today's grand technological challenges are complex and require a broad understanding. It is critical that chemical engineers strive to be at the forefront of innovation, built upon foundational engineering proficiency, technology development, a willingness to embrace diverse thinking, learning across disciplines, and effective collaboration and teamwork.

*Talent pipeline:* Retaining chemical engineering students and attracting middle school and high school students into STEM and chemical engineering are critical to our future. We can do that by emphasizing the purpose of our work and inspiring the next generation. Our exciting work in biotechnology, renewable energy, green chemistry, and novel advanced materials to name just a few should capture young imaginations.

*Development and lifelong learning:* The rapid changes affecting what jobs will look like in the next decade and beyond is both intimidating and exciting. We can help ensure future opportunities by anticipating the best ways to enhance skills in the workforce, keep members learning, develop key curricula, and provide mentorship. We can partner across academic communities, as well as with other professional societies and countries, to develop impactful content and information delivery.

It would be an honor to serve you and AIChE. I welcome your ideas and comments at [annlee98101@gmail.com](mailto:annlee98101@gmail.com).

## For Director

### Peter Lodal

Peter N. Lodal is a Technical Fellow in Global Health, Safety, Environmental and Security Services at Eastman Chemical Co., a global leader in specialty chemicals. He has served Eastman in various positions for nearly 42 years in both process engineering and process safety and loss prevention roles. He is Eastman's representative to AIChE's Center for Chemical Process Safety (CCPS) Technical Steering Committee, and is the chair of the CCPS Planning Committee, as well as a past director of his local East Tennessee Section. Pete also chairs the Process Safety Committee for the American Chemistry Council (ACC). Pete is a licensed Professional Engineer in Tennessee and a CCPS Certified Process Safety Professional (CCPSC). He is also a Fellow of both AIChE and CCPS, and was the recipient of the 2016 AIChE Walton-Miller Award for Outstanding Contributions in the Fields of Chemical Engineering Loss Prevention and Safety and Health. He holds BS and MS degrees in chemical engineering from Purdue Univ.



### Statement:

I believe that my nearly 42 years in industry, along with more than 35 years of leadership in professional and trade associations, position me to help build bridges between key stakeholders to implement the objectives of the new AIChE strategic plan. All stakeholders must have a seat at the table: regulators, educators, R&D, design, operations, and maintenance. My experiences at Eastman gave me the opportunity to work on world-class technologies, such as our chemicals-from-coal initiative. My work with trade and professional organizations has allowed me to participate in multiple CCPS Guideline book projects, develop the CCPS Process Safety Boot Camp series of workshops, author or coauthor more than 20 technical papers, and teach short courses and seminars on a variety of management and engineering safety topics.

I have had the opportunity to work with, and understand the concerns of, regulators, universities, and industry associates, often working toward solutions to key issues that addressed the needs of all stakeholders. Through my work with the AIChE Academy, I have helped enhance both university and lifelong learning opportunities in process safety.

My combination of industry experience and leadership roles in multiple organizations uniquely position me to further AIChE's strategic objectives around lifelong learning, societal impact, stakeholder success and inclusion by setting direction and generating enthusiasm to achieve the stated goals. Together, we can, and must, "get it right" in design, implementation, and compliance. The societal impact of "getting it wrong" is simply unacceptable.

## For Director

### Todd Przybycien

Todd Przybycien began his career at Monsanto Agricultural Co. before moving to Rensselaer Polytechnic Institute (RPI), where he launched a teaching and research program in biomanufacturing. He then spent 20 years at Carnegie Mellon Univ. (CMU), where he was founding head of the Biomedical Engineering Dept. He returned to RPI in 2018. His interests in biomanufacturing and drug delivery have led to collaborations with companies including Amgen, Biogen, Celgene, Genentech, Genzyme, and Merck. Within AIChE, he chaired the Food, Pharmaceutical and Bioengineering Div. and served as program area 15c (Bioengineering) chair. He has also served on the managing board of AIChE's Society for Biological Engineering since 2010, and on CEP's editorial board since 2014. He is a Fellow of AIChE, and is also active in the National Institute for Innovation in Manufacturing Biopharmaceuticals.



### Statement:

The 2018 Institute strategic plan identifies six priorities - leadership, communities, content, diversity and inclusion, societal issues, and transformational technologies - to continue the terrific trajectory of the past decade. While each priority has action statements, measurable goals, ownership, and tactics for each action are now needed. For example, the diversity and inclusion priority includes the statement: "Begin early for engagement (i.e., middle and high schools)." Perhaps the Education Div. could lead the development of level-appropriate chemical engineering content, including hands-on activities in partnership with the recently relaunched K-12 Committee. Each technical division could be asked to consider contributing a module relevant to its technical focus. These groups could further partner with local sections to recruit a diverse group of volunteers for additional input and to disseminate this content among students and schools in their regions. The AIChE Academy professional education platform could perhaps be extended to house these pre-professional educational materials. We might set a goal of one annual middle school program sponsored by each local section within three years. We might set a goal to reach well-served and underserved schools and students in equal numbers. We might aim to reach 100 students or more per year, per program.

I am experienced in strategic planning, having led the collaborative development of three successive plans for CMU's nascent Biomedical Engineering Dept., and co-led the faculty experience component of CMU's university-wide Strategic Plan 2025. I get jazzed by generating ideas with others. I am deliberate about the organizations I join, and I expect to roll up my sleeves regardless of my role. I have benefited both professionally and personally from my membership in AIChE since my student days, and would be honored to give back as a director. Please share your thoughts about AIChE and the realization of its strategic plan at [przybt3@rpi.edu](mailto:przybt3@rpi.edu).

## ***Gleason Named 2019 Prausnitz AIChE Institute Lecturer***

[Karen K. Gleason](#), the Alexander and I. Michael Kasser (1960) Professor of Chemical Engineering at the Massachusetts Institute of Technology (MIT), has been chosen by AIChE to present the [John M. Prausnitz AIChE Institute Lecture](#) for 2019. She will present her lecture, "[From Chemical Engineering Fundamentals to the Commercialization of Vapor Deposited Polymers](#)," on Wednesday, Nov. 13, at the [2019 AIChE Annual Meeting](#) in Orlando, FL.



The Prausnitz AIChE Institute lectureship is awarded to a distinguished AIChE member who has made significant contributions to chemical engineering in their field of specialization. The lectureship is endowed by the [AIChE Foundation](#) in honor of [John Prausnitz](#), Professor of Chemical Engineering at the Univ. of California, Berkeley, who pioneered the field of engineering-oriented molecular thermodynamics.

Gleason's research concentrates on the chemical vapor deposition (CVD) of polymeric thin films, with applications in sensors, biotechnology, microelectronics, organic electronics, microfluidics, microelectronic mechanical systems, composites, and membranes. She is a co-founder of the companies GVD Corp. and DropWise Technologies Corp., providers of ultrathin and polymer coatings for a variety of applications.

Gleason has served MIT as Executive Officer of the Chemical Engineering Dept., Associate Director of the Institute of Soldier Nanotechnologies, Associate Dean of Engineering for Research, and Associate Provost. She has also provided oversight for MIT's Technology Licensing Office and the Industrial Liaison Program, and helped establish new alliances with industry. She is the author of more than 300 publications and holds more than 35 U.S. patents. She is editor of the book *CVD Polymers Fabrication of Organic Surfaces and Devices* and a deputy editor for the American Association for the Advancement of Science's journal *Science Advances*.

A Fellow of AIChE and a member of the National Academy of Engineering, Gleason earned her BS and MS degrees at MIT and her PhD from the Univ. of California, Berkeley — all in chemical engineering.

## “SAVE THE DATE”



**AIChE®**  
**MIDWEST**  
**REGIONAL**  
**CONFERENCE**

2020 AIChE Midwest Regional Conference

*Chicago, IL – March 11-12, 2020*

Hosted by Illinois Institute of Technology

Organized by Chicago Local Section of AIChE

The AIChE Midwest Regional Conference continues into its 12<sup>th</sup> consecutive year, with the Chicago Local Section organizing a conference that provides an opportunity for engineers and scientists in the region to learn about new technologies, as well as offer a relaxed atmosphere for networking.

### Important Dates

Call for Oral Contributions Opens	August 30, 2019
Call for Oral Contributions Closing Date	October 31, 2019
Notice of Acceptance of Oral Contributions	December 1, 2019
Call for Poster Contributions Closing Date	January 16, 2020
Notice of Acceptance of Poster Contributions	January 23, 2020
Registration Site Opens	November 7, 2019
Early-Bird Registration Deadline	January 31, 2020
Pre-Registration Deadline (On-site rates begin)	February 29, 2020

### Volunteer Opportunities

Interested in helping with MRC 12? Contact the **Conference Chair** and we'll find a role that is of your interest. This is a great occasion to meet new friends and help your technical community.



## Volunteers Needed for Chicago Local Section

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 local network grows.

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](mailto:aichechicago@gmail.com).

## Why Renew Your AIChE Membership?

Make sure that you check the box and pay the local section dues on your bill from AIChE Global.

Renew Membership



**The local section dues are only \$20.00 per year**, compared to the \$200.00 charged by AIChE Global. Most companies that pay your dues, will cover the cost of the local section dues, with no issues. Local section members get a discount on the cost of our monthly meetings.

- Subscription to AIChE's flagship publication: CEP\*
- Education—Access to e-learning courses and instructor-led training, offering Continuing Education Units and PDHs
- Access to Career Engineer—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 Access Engineering Library collections

[View COMPLETE benefits](#)

## ***Congratulations to Chicago Section Member: Dr. Greg Mehos***

[Dr. Greg Mehos](#), one of the PSRI Technical Consultants, has been invited into the AIChE Fellow Role. Greg has over 30 years of experience in hopper and feeder design, design of gravity reclaim systems, spray dryers, and analysis of purge columns. His accomplishments are significant by any standard. That has gotten noticed as Greg has been recently invited into the AIChE Fellow standings. Fellow is AIChE's highest grade of membership and is achieved only through election by the AIChE Board of Directors, generally upon the recommendation of the AIChE Admissions Committee through whom all nominations for election to Fellow are processed.



Please join us in congratulating Greg on his most recent accomplishment.

You can read more about Dr. Greg Mehos on the [PSRI Consultants](#) webpage or reach out to him at [greg.mehos@psri.org](mailto:greg.mehos@psri.org).

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## ***Volunteering Opportunity for ACS's Chemistry Day***

We will be supporting the Chicago local section of the American Chemical Society (ACS) in its annual Chemistry Day, celebrating National Chemistry Week. Northwestern University will host this year's Chemistry Day on **Saturday, October 19, 2019, from 10 AM to 3 PM**. "Marvelous Metals" will be the 2019 theme. More information will follow in the next newsletter. Please contact Janet Werner, [janet.werner@honeywell.com](mailto:janet.werner@honeywell.com), if you are interested in volunteering for AIChE's booth at this event!



## Upcoming AIChE Conferences, Meetings & Webinars

### Chicago Local Meetings

September 19, 2019	September Meeting & Stickney Tour
October 15, 2019	Speaker: Dr. Norman Li, NL Chemical Technology, Inc.
November 19, 2019	Speaker: Dr. Ben Freireich, PSRI

### AIChE Conferences

September 19 2019	2019 Global Symposium on Waste Plastic, University of Kentucky Gatton Student Center, Lexington, KY
September 30— October 1, 2019	PD2M Advanced Process Control Workshop, Bethesda, MD
October 1-2, 2019	11th AIChE Southwest Process Technology Conference, SugarLand TX
October 7-8, 2019	4th Bioengineering & Translational Medicine Conference, Duke University, NC
November 10-15, 2019	AIChE Annual Meeting, Orlando Florida
March 11-12, 2020	2020 Midwest Regional Conference, IIT Chicago

### AIChE Webinars

September 10, 2019	<u>Impact of Fire Exposure on Gas Filled Vessels</u>
September 25, 2019	<u>Design, Application &amp; Economics of Process Intensification</u>
October 16, 2019	<u>Time-Scale Analysis: A Process Intensification Tool</u>
December 11, 2019	<u>The Link Between Process Safety and Process Intensification</u>

### Officers and Contact Information

Chair	Jarad Champion
Chair Elect	Jeff Zalc
Chair Programming	Ha Dinh
	Sarika Goel
Secretary	Ben Ketter
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## AICHE CHICAGO SECTION

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We are on the web  
[www.aiche.org/Chicago](http://www.aiche.org/Chicago)

**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? Becoming an officer in the Chicago Section of AIChE is such an opportunity. While you're learning new skills, your local 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.

[aichechicago@gmail.com](mailto:aichechicago@gmail.com)

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

## Submitting Articles to AIChE Columns

We welcome email submissions for our monthly newsletter. Commercial announcements are subject to the fee schedule below. News stories, editorials, technical or career related non-commercial contributions are always welcome with no charge. We consider job postings, announcements of for-fee training courses, expositions, conferences as commercial. Categorization of announcements is at the sole discretion of the Chicago AIChE Board of Directors. Chicago AIChE may publicize activities of interest to our members by cooperating professional societies and other non-profits without charge.

Please submit your material to [aichechicago@gmail.com](mailto:aichechicago@gmail.com) with "newsletter article" as a subject line.

AICHE Publicity Committee Fees	Academic (non-AICHE)		Company		Recruiters	
	Per Month	Per Year	Per Month	Per Year	Per Month	Per Year
<b>Advertisements (3X3)</b>	100	450	150	675	N/A	N/A
<b>Half-Page (~7"x 4.5")</b>	280	1260	420	1890	N/A	N/A
<b>Job Posting (Size?)</b>	50	225	100	450	250	N/A
<b>Special Sizing</b>	Contact Publicity Committee <a href="mailto:aichechicago@gmail.com">aichechicago@gmail.com</a>					

For the purchase of a year ad, customers have the option of changing ads/jobs month to month. Online payment can be done using <http://www.cvent.com/d/9cq5pw/4W>

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