

THE ELEMENT

Volume 13, Issue 2
April 2019

FROM THE PRESIDENT'S CORNER...

What are chemical engineering students typically found doing? Studying? Doing homework? Reading their fascinating reactions engineering textbook? Sometimes we eat delicious burgers with professors that just graded our midterm exam, try to break out of a prison with our classmates (totally legal), win a crazy game of Big Ball Volleyball, and race down Perlstein Hall tied up with a partner while balancing two plates of pie. AIChE conducts a plethora of social and professional events. Our weekly speaker series range from talks about technology used to convert carbon dioxide into ethanol to design processes in constructing an industrial ventilation system.

We frequently attend the Chicago chapter's local section meetings and exhibits a strong presence in their events. Our students attended the February local section meeting where our advisor, Donald Chmielewski, was given the Thiele award. AIChE students also attended the Midwest Regional Conference at UIC, where they participated in the poster competition. We also have been fortunate to go on plant tours, including one at Axion. Students had the chance to visit their ana-

lytical lab downtown where they learned about various techniques Axion employs everyday to create medical products. Our outreach also extends to volunteering at STEM events to expose middle school kids to engineering principles.

This year, the North Central Regional Conference will be held in Toledo, Ohio from April 12-13th where our ChemE car team will be competing. In addition to this, we are proud to launch a revamped mentor-mentee program. More details about this initiative are given in the next few pages.

I'd like to end my piece by thanking my board, which is no less than a family to me. What you all do makes me so proud. I'd also like to thank our general body members for supporting our meetings and events. You are truly the motivation for our AIChE student chapter. We also bid farewell to the graduating senior class and wish you all the success in your life post college. We hope to see you all at our final event of the year, Pie-a-professor BBQ in May!

Sitoshna Jatty
President

A  I  C  H  E



From the President's Corner	1
Social Media	2
This Semester's Speakers	2
Local Section and Plant Tour	3
ChemE Car Update	3
Sister Chapter	3
Treasurer's Tale	4
This Semester's Events	5
North-Central Conference	6
Mentor-Mentee Program	6
Summary of Events	8

SOCIAL MEDIA

This semester, AIChE held many events including Pilympics, Dinner with Professors, Escape Room, weekly speakers, and many more! The turnout for a lot of those was good. We did a great job in trying to recruit not just the incoming freshmen, but a lot of the other ChemE students who weren't as active in AIChE before.

To promote the fun events, information was posted on our FB page- AIChE-IIT- as well as on IIT's public pages, ITSC and ITSE. We've also been promoting them by visiting CHE classes. This semester, we decided to create our very own instagram page! On there you will find bad puns and cute boomerangs. Go follow us at [@aiche.iit](#)! Because we just started one, there is not much on there, but I believe that it will grow a lot in the future! You can see some of the pictures of some of the events down below!

Jessica Forbes
Public Relations Chair



Students (and Don) at Dinner With Professors

THIS SEMESTER'S SPEAKERS

Hello fellow engineers!

My name is Jake Tracey and I am the current External Vice President of AIChE at IIT.

Our general body meetings for the organization are held every Wednesday during lunch in Room 108 of Perlstein Hall. Every meeting includes a presentation from a speaker in the industry of chemical engineering, many who are alumni of IIT, and food and beverages.

This semester has seen many great presenters including speakers from environmental companies big and small, national laboratories, chemical companies at the head of their industry, the career services department at IIT, and even the CEO of a company. Some

highlights include Ray Cocco from PSRI, Rachel Brenc from LanzaTech, Paula Hajakian from USG, and more qualified professionals.

We have more speakers coming up still this semester with Svetlana Taylor from Current Water giving a presentation on April 17. These meetings are a great opportunity to learn about the chemical engineering field, ask questions, and make professional connections, so please stop by! If you want to learn more about our speakers, check out our Facebook and Instagram pages. If you have any questions or concerns, email me at jtracey1@hawk.iit.edu.

Jake Tracey
External Vice President

AIChE members in an Ethylene Race



LOCAL SECTION AND PLANT TOUR

During the Spring semester of 2019, a small group of students including myself attended the February Local Section Meeting which was held at Greek Islands Restaurant in Lombard, Illinois. Professor Donald Chmielewski had received the Thiele Award and gave a talk on his Economic Based Controller Design. The dinner was a great opportunity to network with the AIChE local section and overall the students thoroughly enjoyed the event.

A few students including myself also took a trip to Axion Analytical Labs on Friday, February 8th, for a plant tour. There we got a chance to learn

about chromatography and how chemical engineering can apply to that field. We also got the chance to run some tests of our own on various liquid and gas samples using their state-of-the-art equipment. The tour lasted about two hours and was very extensive and detailed, giving students plenty of opportunity to ask questions and understand how the facility works. Overall, the facility was very nice and they had very interactive displays for students to immerse themselves in the role of an analyst.

Antonio Archilla
Local Section and Plant Tour
Coordinator



AIChE members at Local Section Meeting in Lombard, IL

CHEM-E CAR UPDATE

We have proved the zinc-copper galvanic cell system will work most efficiently for our car. Through a series connection between 12 galvanic cells, an average of 12 volts will be produced to power our motor. Our stopping mechanism will be provided by the classic iodine clock reaction. We are now in the process of collectively putting the car together to perform some trial runs prior to the competition coming up very soon, wish us luck!

Nooha Menk and Jenna Hanning
ChemE Car Coordinators

SISTER CHAPTER

This semester has been a good one in terms of making contact with our sister chapter this year. From across the globe we have the Vellore Institute of Technology in India. I have worked hard with Pranav Pahade to coordinate some upcoming cultural exchanges between our two chapters. We plan to create videos sharing different holidays from our countries to see how they are celebrated. It is a great chance for us to become closer despite the thousands of miles and 12-hour time zone difference between us. I am excited for the future that we can share together and how much we can each grow as organizations.

Joseph Hindy
Sister Chapter Liaison

TREASURER'S TALE

Entering this position, I had no idea what treasurer truly entailed. As a first year, I thought that being the AIChE treasurer was going to be a little like when I was the treasurer of an org in high school. Considering I did basically nothing in that position, I was very wrong about how being the treasurer of AIChE was going to go.

As the semester has gone on, I have learned a ton about the inner workings of a student org. So far this semester, one of the things I have tried to do is vary the food we get at meetings. One week we had Chinese food and although it was a lot of clean up, it was great to take a break from pizza once in a while. On the other hand, I have ordered so many things from Amazon for the ChemE Car team that Amazon probably thinks I'm cooking up something real good. My Amazon requests will never be the

same. Another thing I get to do is go to Finance Board advising meetings and ask them to approve our budgets. In advising meetings, I have learned how to make just about any event we do sound like an essential networking event vital to the chapter's success, whether its the dinner with professors or the escape room.

Finally, this semester has taught me to do a lot of learning on the fly and to basically just submit a request and pray that OCL approves it in time. With this semester nearing the end, I am ready to take on the next with even more improvements.

Abigail Gunderson
Treasurer



Students complete their escape rooms in Fox in a Box, Chicago



THIS SEMESTER'S EVENTS

The opportunity to serve on executive board as a freshman and get to know fellow chemical engineers was an amazing experience, one well worth the effort.

This semester I've had the pleasure of organizing the Annual CHBE Awards dinner, where we recognize exemplary students and teachers who exceed expectations. I would like to personally thank all the professors in the department for the hard work they contribute towards their students and towards making the event a success. As the end of the semester nears, the Awards Dinner was a great opportunity for everyone to reflect on their hard work both in class and out. The dinner also gave the graduates the opportunity

to say goodbye as they move on with their careers. As Internal Vice President, I've had the opportunity to witness the fun and engaging AIChE events throughout the semester.

We held a Dinner with Professors at Burger Bar Chicago, where students were able to meet and discuss with professors outside of the classroom environment, enjoy some good food, and relax! We also held a fun-filled celebration for Pi-Day at the bog, involving all sorts of quirky games revolving around our favorite irrational number. More recently, AIChE was able to visit an Escape Room, where classmates were able to bond over a common goal and try their hardest to figure out clues

and escape. Combined with the delicious food at Taste of ChemE and the Bowling Social, this semester provided many engaging activities throughout the AIChE chapter here at IIT. We'll wrap things up this semester with the upcoming Pie-A-Professor and end of year barbeque. This event will be a great way to raise money for local charities as well as get revenge on our favorite chemE professors. It has been a great semester for AIChE, with various hosted activities that overall led to a great in-depth experience for all who took part. I can't wait to start off this next semester with even more fun and awesomeness!

David Hults
Internal Vice President

DATE	SPEAKER	TOPIC	COMPANY
01/23/2019	Elyse Yarnell	Your Career 101	Career Services
02/06/2019	Ken Rufflato	Discovering the Private and Public Sectors	EPA
02/13/2019	Ray Cocco	Navigating an R&D Career in Chemical Engineering	Particulate Solid Research, Inc.
02/20/2019	Rachel Brenck	From Big Oil to Biotech, My Career So Far	LanzaTech
3/27/2019	Ellen Arnold	From South Korea to Simulations: Where my Degree has taken Me	Honeywell UOP
03/04/2019	Jaehyung Park	Accelerating the Development of Fuel Cell Catalysts and Electrodes	Argonne National Laboratory
04/03/2019	Paula Hajakian	Three Project Examples	United States Gypsum

NORTH-CENTRAL CONFERENCE

The AIChE North Central Regional Student Conference will take place at the University of Toledo, Ohio from April Friday 12th to Saturday 13th, 2019.

Some of the conference highlights include Regional ChemE-Car Competition, Regional ChemE Jeopardy Competition and Regional Student Paper & Poster Contest. Furthermore, a banquet will be held on Saturday evening and it will be a very great opportunity to have some new experience with other chemical engineers.

A total of 19 Illinois Tech students will have the opportunity to go to Ohio. The planning for the trip such as conference registration, room reservation and transportation started since the beginning of January and as

a conference coordinator you can expect a lot of unexpected issues throughout the semester. However, the AIChE-IIT members would like to thank the Office of Campus Life, for helping us through this process and making the conference possible.

Next semester for Fall 2019, the National Student Conference will be hosted at Orlando, Florida. Please come and join us to bond with other chemical engineers and to network with the professionals. There will be a career fair and you could try to get an interview and also spend few days in Florida. No matter if you are a freshman or Junior, you are welcome to join us for the experience!

Kimberley Mannikum
Conference Coordinator

GRADUATE LIAISON

Well, it all started when I was volunteered to join AIChE as the Graduate Liaison. The cool thing about being a Graduate Liaison is that I got to work with AIChE and GSA.

Graduate Student Association had their own Graduate Liaison Riya Narjari, we both worked hand in hand to help both our organization come together for events like Taste of ChemE which is a pot luck contributed to by AIChE members. What I've learned the most is not to be afraid to join a Club even if you've been volunteered, the best opportunities are the ones that you're not looking for.

Christian Quintana
Graduate Liaison



ChemE car team presenting at NCRC 2019

MENTOR-MENTEE

This semester we are bringing back the ChBE Mentor-Mentee Program for the 2019-2020 academic year. Upperclassmen will be paired with first-year Chemical Engineering students to provide tips for tricks to surviving the Chemical Engineering program and IIT in general. IIT Alumni will be paired with upperclassmen students to share their real-world experience and knowledge as well as guidance for navigating through their career.

This is a great opportunity to extend your network and meet amazing new people!

If you are interested in joining the program, please visit the AIChE website and fill out the application. Alumni and Upperclassmen will be matched no later than April 27th, as the program will commence May 2019 and will officially end May 2020.

Chantel Raygoza
Mentor-Mentee Coordinator



2019 EXECUTIVE BOARD

President-----	Sitoshna Jatty
Internal Vice President-----	David Hulst
External Vice President-----	Jake Tracey
Secretary-----	Yashwant Kathirvel
Treasurer-----	Abigail Gunderson
Public Relations Chair -----	Jessica Forbes
Mentor-Mentee Coordinator-----	Chantel Raygoza
Local Section/Plant Tour Coordinator--	Antonio Archilla
Conference Coordinator -----	Kimberley Mannikum
ChemE Car Coordinators-----	Nooha Menk and Jenna Hanning
Graduate Liaison-----	Christian Quintana
Sister Chapter Liaison-----	Joseph Hindy
Faculty Advisor-----	Donald Chmielewski

AIChE-IIT Student Chapter

Contact us!

Email: aiche@iit.edu

Website: <http://aiche0.wixsite.com/mysite>

Hawklink: <https://iit.collegiatelink.net/organization/aiche>

Add us on Facebook! AIChE IIT

Add us on Instagram! @aicheiit

AIChE Mission Statement:

“Enriching chemical engineering students with the knowledge and ideas necessary for their future careers through innovative and creative thought processes.”

SPRING 2019 SUMMARY OF EVENTS



02/07/2019	Bog Night
03/01/2019	Dinner With Professors
03/14/2019	Pie-lympics
04/02/2019	Awards Dinner
04/05/2019	Escape Room
04/10/2019	Taste of ChemE
05/01/2019	Pie a Professor