

**American Institute of Chemical Engineers,
Cleveland Section**

Visit our Web Page at:

<https://www.ichem.org/community/sites/local-sections/cleveland/newsletters>

Join our LinkedIn Group called:

[AICHE Cleveland Section](#) and let colleagues know it is available



Friday, September 8, 2023, 5:00 PM

German Central Foundation (7863 York Road, Parma, OH 44130)

AICHE Membership Not Required to attend any meetings.

Look for HB Red T-Shirt

Oktoberfest at German Central Farm in Parma



Outdoor Glockenspiel Songs

**Outdoor Pavilion Dancing
with Bands**

**Indoor Traditional
Dancing with Bands**



Gemütlichkeit

Join the fun at the Oktoberfest here in Parma, Ohio on Friday September 8th 2023. Observe the colorful heritage, culture, music, and dances of the German people. Our own unique version of this legendary event offers something for the whole family, and for both the young and the young-at-heart.

Oktoberfest actually began as a royal wedding in Munich, Germany on October 12, 1810. In the years following the wedding, all the appreciative Bavarians in and around Munich held anniversary celebrations until, about ten years later, the celebrations turned into an annual Oktoberfest.

German Central's Oktoberfest, which was first held in 1999, provides a golden opportunity to get together with old friends and form new acquaintances. Enjoy the delicious food, flowing beer, and Gemütlichkeit.

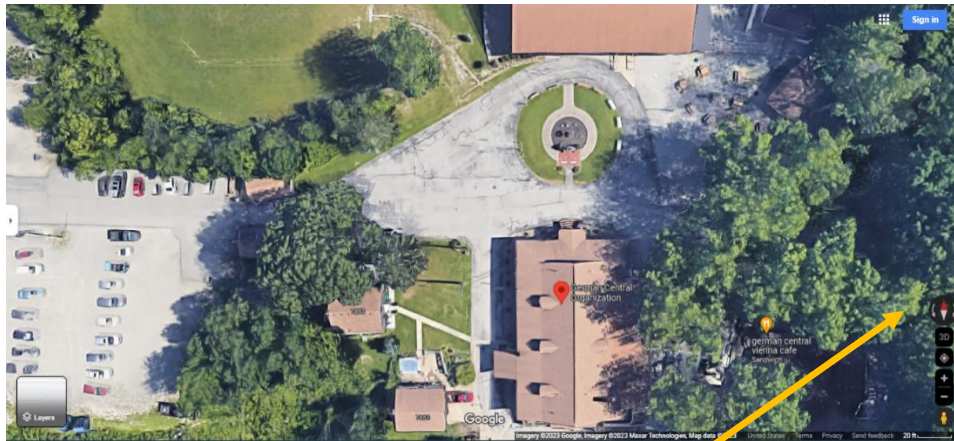
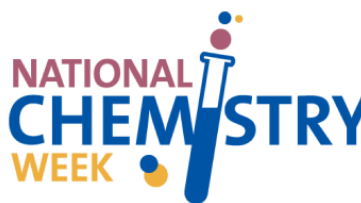
Meeting Location:7863 York Road
Parma, OH 44130**German Central Farm** (look for HB Red T-Shirt, below)

5:00 – 6:00 pm: Social Gathering & Flag Raising

6:00 – 7:00 pm: Dinner

Menu:

7:00 – ??? pm: Dessert - Dancing?

<https://germancentralfoundation.com/oktoberfest>**Enter:** ~ \$5 Admission per person**Menu:** German Beer ~ \$4,
German Brats on Roll ~ \$6,
German Schnitzel Dinner ~ \$14**Look for HB Red T-Shirt. Meet at picnic tables East of Vienne Café Building****RSVP Recommended** with Joseph Yurko and AIChE at: yurkojoe5@gmail.comInterested in Exciting Children
about Chemistry?

Each year our Section attempts to excite children in grades 2-6 about chemistry by creating a fun, hands-on, age-appropriate Program for them. It's our contribution to National ACS' celebration of National Chemistry Week (NCW) each October. Our Section's NCW Planning Committee selects a set of 4-6 of fun "experiments" for our Program which is presented by volunteer Demonstrators during NCW in October.

It's a lot of fun creating the Program and presenting it each year. If this might be something you might like to contribute your knowledge and time to, please consider volunteering for either the Planning Committee or as a Demonstrator. The time commitments are minimal: our Planning Committee meets twice each month between April and August for about an hour first via Zoom and later in person. Our Demonstrators commit to a couple of hours in October.

If interested in joining us or if you'd just like to learn more about us, please contact Bob Fowler at jrfowler@cox.net or at 216-403-9448.

AD, SEE Spring 2023 ISSUE

On Ethics: "PE The Magazine for Professional Engineers", pemagazine@nspe.org



BY KYLE PAYNE, PH.D.

[How to Avoid Doing Bad Things for Good Reasons: Lessons from a Study of Professional Engineers](#)

Unethical behavior at work can be extremely costly. Volkswagen has paid over \$33 billion in fines, penalties, settlements, and buyback costs related to its use of so-called "defeat devices" to manipulate emissions tests. Wells Fargo paid over \$5.7 billion to settle civil and criminal suits associated with employees setting up phony customer accounts. Penn State paid over \$300 million for the Sandusky sexual abuse scandal and efforts by university officials to cover it up. Unethical behavior at work also incurs indirect costs, such as damage to the firm's reputation, erosion of the public's trust, and increased monitoring of employees.

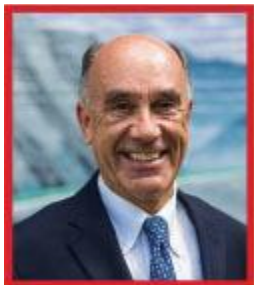
To understand what motivates workers to do unethical things, particularly when they believe they are acting in their employer's best interest, I surveyed 300 professional engineers. I asked them about circumstances that make them more likely to engage in unethical behavior at work. Other questions had to do with how much they identify with their organization, their profession, or being considered a moral person, and how much meaning and purpose they find in their work.

The study's results were surprising. Predicting whether professional engineers will do something unethical to benefit their organization is not as simple as whether they feel a strong connection with their organization. Feeling connected to their profession likewise does not predict that a professional engineer will side with their professional ethics over the organization's interests. Instead, much of what predicts unethical behavior at work concerns the excuses we make for ourselves when we reflect upon unethical behavior. In social psychology, we call this process "moral disengagement."

KYLE PAYNE, PH.D., IS A TALENT DEVELOPMENT MANAGER AT COLLINS ENGINEERS IN CHICAGO, ILLINOIS, AND RECENTLY COMPLETED A DOCTORATE IN HUMAN CAPITAL MANAGEMENT AT BELLEVUE UNIVERSITY IN BELLEVUE, NEBRASKA. HE CAN BE REACHED AT KPAYNE@MY365.BELLEVUE.EDU([link sends e-mail](#)).

AD, SEE Spring 2023 ISSUE

On: Leading Insight, "PE The Magazine for Professional Engineers", pemagazine@nspe.org



BY MICHAEL E. FRISINA, PH.D.

Want Gen Z Talent to Stick Around? Help Them Access Their Upper Brain

There's a lot of buzz around what Gen Z employees expect. No wonder. They're the largest generation now and will soon hit the workforce in a big way. Most experts agree that beyond fair pay (which is just the price of entry), Gen Zers want an empathetic workplace that puts people before profits. They want a sense of community and belonging. They want employers that value diversity and inclusion, allow flexibility and work/life balance, develop them, prioritize their mental health, and provide meaningful work that advances social justice—or, at the very least, doesn't detract from it.

It's a tall order—not to mention an urgent one in light of Federal Reserve Chair Jay Powell's recent remarks on America's structural labor shortage—and many employers don't know where to start. Here's an unexpected suggestion: Help younger employees learn to access their upper brain.

If you look at this Gen Z "wish list" in a holistic way, you can see young employees crave a work experience that's enriching and energizing. They put purpose before passion. They want strong relationships with leaders who not only support them but genuinely care for them. They want to belong. They want to thrive. All of this requires employees to operate in their upper brain—and that requires leaders to behave in ways that allow it to happen.

MICHAEL E. FRISINA, PH.D., IS THE FOUNDER AND CEO OF THE FRISINA GROUP LLC AND THE CENTER FOR INFLUENTIAL LEADERSHIP. HE COAUTHORED THE BOOK *LEADING WITH YOUR UPPER BRAIN: HOW TO CREATE THE BEHAVIORS THAT UNLOCK PERFORMANCE EXCELLENCE* WITH ROBERT W. FRISINA, A PRINCIPAL IN THE FRISINA GROUP AND EXECUTIVE DIRECTOR OF THE CENTER FOR INFLUENTIAL LEADERSHIP.

AD, SEE March 2023 ISSUE

On: Update, "Chemical Engineering Progress, CEP, An AIChE Publication", www.aiche.org/cep

Nuclear Regulatory Commission Certifies First Small Nuclear Reactor Design

For the first time, the U.S. Nuclear Regulatory Commission has certified a small modular nuclear reactor (SMR) design for use in power plants.

The design, created by Oregon-based NuScale Power, consists of a light-water reactor that can generate up to 50 MW of power. The promise of small-scale reactor modules, according to proponents, is that they

can be largely assembled offsite and delivered to the plant site, where the number of reactors can be scaled according to the power needs. For example, NuScale's proposed VOYGR power plants can encompass either four, six, or 12 SMRs, generating up to 924 MW of electricity. Ideally, the standardized fabrication and assembly can cut costs, while the power could be used as a backup for more variable electric supply from renewables like wind and solar.

"The U.S. Nuclear Regulatory Commission's official certification of NuScale's SMR design is a historic step forward toward a clean energy future, which further positions our VOYGR power plant as a near-term deployable solution for customers," says Diane Hughes, the vice president of marketing and communications at NuScale. "The certification allows utilities and other customers to reference NuScale's approved design when applying for a combined license to build and operate a reactor."

AD, SEE August 2023 ISSUE

On: Critical Issues, "Chemical Engineering Progress, CEP, An AIChE Publication", www.aiche.org/cep

ABET Accreditation: What Is It and Why Does It Matter?

EILEEN WEBB, RANDY S. LEWIS, LAURA DIETSCHKE, KIMBERLY OGDEN, PEYTON C. RICHMOND, P.E.

This article reviews the purpose of ABET accreditation, the associated criteria, the volunteers that provide the accreditation reviews, and the role of AIChE in the accreditation process.

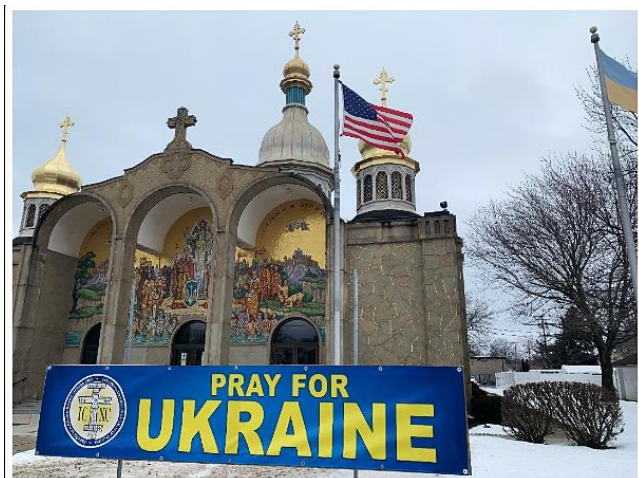
Most chemical engineers reading this article will have graduated from an ABET-accredited chemical engineering program, yet few know much about the accreditation process. Unless they were students during a review, many industry practitioners may not have even heard of ABET accreditation. While some academics see ABET as a way to improve their programs, others experience accreditation through a visit by an accreditor every six years, along with the rubrics and the student data they provide their program's ABET coordinator between reviews.

Accreditation ensures that a program meets minimum standards (as outlined in a set of criteria) so that employers, parents, students, graduate schools, and the public can have confidence in the quality of the education graduates receive from an ABET-accredited program. In addition, a degree from a program accredited by the Engineering Accreditation Commission (EAC) of ABET meets the education component specified in the National Council of Examiners for Engineering and Surveying (NCEES) Engineering Education Standard for engineering registration (1). In most states and territories, this means that those graduates can pursue engineering registration (P.E. license) with four years of supervised experience rather than 8–10 years (unless their educational credentials are evaluated by NCEES or the state board and determined to meet the academic requirements).

This article reviews ABET accreditation criteria, discusses the accreditation review timeline, and examines the role of AIChE in the accreditation process. This article also describes the various volunteer opportunities for AIChE members from industry, government, and academia to serve as accreditation evaluators.

Other Notable Events going on in Parma: The Ukrainian Village Parade on Saturday, August 26, 2023 at 11:00 a.m.

This will be the commemoration of the 32nd anniversary of Ukraine’s Independence Day – August 24th – we also recognize and acknowledge the unimaginable suffering of the people in Ukraine as they fight to ensure that their freedom is not taken away from them now and for future generations. As Americans we cherish our freedoms and the price we paid for them with our sacrifices. May the Ukrainian people achieve their goals soon and reclaim the freedom they so richly deserve.



St. Vladimir Ukrainian Orthodox Cathedral, 5916 State Road, Parma, OH 44134

**CLE AIChE: Cleveland Chapter
Fall 2023 – Spring 2024 Program Planning**

(Preliminary as of 26Aug2023)

Month	Topic, Speaker	Location	AIChE Officer Responsible
September 8, 2023 (Friday 6 PM)	Oktoberfest Social Event	German Central Farm, Parma	Joe Yurko, \$5/guest admission + \$ food & beverage? https://germancentralfoundation.com/oktoberfest
October 11, 2023 (Wednesday 6 PM)	Brewpub Tasting Tour	Market Garden Brewery OH City	Mike Galgoczy, \$20/guest with 20 guests. Dinner?
November 2023 (Wednesday 6 PM)	History of ACS 7 National Chemical Landmarks Sites in Cleveland, Helen Mayer Speaking	The Sanctuary Rockside Road Independence	Joe Yurko, Dinner menu ordering for professional members, Students cost: Free – vs – \$5 ? http://places.singleplatform.com/shulas-steak-house-8/menu#menu_5599999
December 2023	Nuclear Power and Decarbonization Update for Ohio, Andrew Ohrabla Speaking	Red Lobster, Parma, Day Drive	Joe Yurko, Dinner menu ordering for professional members, Students cost: Free – vs – \$5 ?
January 2024	NASA Glenn Center Vertical Take Off & Landing (VTOL) Aircraft	Donte’s Restaurant & Pizza Shop 2085 Sheldon Rd, Brook Park, OH 44142	Joe Yurko, Dinner menu ordering for professional members, Students cost: Free – vs – \$5 ? 440-243-0342, https://www.dontesrestaurantpizzashop.com
February	OSHA in Plant Operations, Kruttika Patel Speaking	De Pompei’s Broadway Gardens 811 Broadway Ave. Bedford, OH 44146	Joe Yurko, Dinner menu ordering for professional members, Students cost: Free – vs – \$5 ? De Pompei’s: 440+232-9872
March	Engineering in Oil Refining, Petroleum Midstream, Chemicals, Energy, and Renewables; Marianne Corrao Speaking	NEXUS Engineering Group, 1422 Euclid Ave., Cleveland, OH 44115 ? or CLE Hofbräuhaus ?	Mike Galgoczy NEXUS: 216-404-7867 Hofbräuhaus: 216-621-2337
April	NEOSEF Awards Banquet	CSU Washkewicz Hall, Rm 349	Joe Spagnuolo, Moderator NEOSEF Students, Prof. Nolan Holland, CSU ChE Lab Tours, \$15 members, Students Free
May			Mike Galgoczy

In person events -- Remote meetings if non-contact required / **COMPLETED MEETING** / **PLANNED MEETING**
OTHER TOPICS: Market Garden Brewery, Nano Brewery, Malley’s Chocolates, Botanical Gardens, ~~Xellia~~ Pharmaceuticals

