

SPRING24 +20TH GCPS

A Joint AIChE and CCPS Meeting

March 24–28, 2024

New Orleans Ernest N. Morial
Convention Center

UNITING

Process + Safety Experts

SOLVING

Global Challenges

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A Note on Sustainability at AIChE® Meetings

AIChE constantly reviews the materials used at and produced for Meetings in terms of sustainability. Every attempt is made to use sustainable products within the economic framework of the meeting. Specific items may include the use of recycled or FSC certified papers, environmentally friendly inks and solvents, use of electronic (pdf) instead of printed materials, limiting the quantities produced and use of production facilities closer to the meeting site.



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Everything you need to know about the 2024 AIChE® Spring Meeting and 20th GCPS in the palm of your hand. Available for free at the Apple or Android App Store.



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This program is as of March 1, 2024. An up-to-date program is available at aiche.org/spring and in the AIChEvents app. Please also consult the [FAQs](#) for additional meeting information.

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WELCOME FROM THE **PRESIDENT**



Dear colleagues:

Welcome to New Orleans and our **2024 AIChE® Spring Meeting and 20th Global Congress on Process Safety**. We are delighted that you are able to join us for this year's exploration of our profession's state-of-the-art, and we hope that the memories and connections that you create here will become part of your lengthy and rewarding relationship with the AIChE community.

This year, our meeting continues its emphasis on the roles that chemical engineers are playing in paving a sustainable path forward for industry and society.

On Monday morning, Mark Lashier (Phillips 66) sets the scene for our meeting with his AIChE Government and Industry Leaders (AGILE) Award keynote lecture *Regeneration: Fuel for the Future*.

Also on Monday, AIChE's Fuels and Petrochemicals Division begins its programming — ranging from traditional fuel production to considerations of how the oil and gas industries are adapting to net-zero and decarbonization — at a plenary co-organized with the Industry 4.0 topical conference.

Along other program tracks, the 36th Ethylene Producers' Conference welcomes keynote speaker Gunter Kracker (Linde), who will discuss the ethylene industry's approaches to achieving net-zero carbon emissions. AIChE's Process Development Division is also hosting a keynote, with Shyamal Bej (Shell) describing approaches for converting sustainable feedstocks into low-carbon fuels.

Additional topical conferences will bring you the latest intelligence in distillation, refinery processing, hydrogen safety, plastics circularity, and professional-skills development.

In 2024, we are pleased to join with our Center for Chemical Process Safety (CCPS) and the Process Safety (formerly Safety and Health) Division to mark the 20th year of the Global Congress on Process Safety (GCPS). The Global Congress kicks off on Monday morning with a keynote delivered by Yatendra Lodha (Reliance Industries Limited), focusing on Process Safety Challenges and Approach for the 21st Century.

Special GCPS anniversary programming includes “best of the best” presentations — in which speakers will update noteworthy talks given at the past decade of Global Congresses. The GCPS will advance CCPS's vision for a “world without process safety incidents” through the programming of the 58th Annual Loss Prevention Symposium, the 39th CCPS International Conference, the 26th Process Plant Safety Symposium, and the 13th Process Safety Management Mentoring Symposium. Attendees will also profit from shared “Perspectives on Process Safety from Around the Globe” and our sessions devoted to “Case Histories and Lessons Learned” from real-world incident investigations.

Ticket holders will find a reserved seat at our daily keynote luncheons. At the Monday luncheon, Teresa Keating (Dow) presents a talk entitled “What's the Worst that Can Happen?” On Tuesday, Michael Lefenfeld (Hexion Inc.) discusses how to build world-class R&D and manufacturing organizations. Wednesday's guest speaker is Rafael Bittar (Vale S. A.), who will share safety insights gained after the 2019 collapse of a tailings dam in Brazil.

To stay on top of the meeting program, you can download the AIChEvents app, which will enable you to maintain a personal meeting schedule and receive program updates on your mobile device. Also, please spend some time in the exhibit hall — where you'll meet the meeting's exhibitors and sponsors, and make new connections at our receptions and poster sessions.

In conclusion, AIChE is grateful for the collaborative spirit of our Spring Meeting Program Chairs — Tony Cai (Fractionation Research, Inc.) and Virginia Sommer (Fluor Corp.) — and the GCPS Chair, Laura Ankrom of Process Safety Core Consulting. We also say “thank you” to our meeting sponsor organizations and exhibitors for their generosity and involvement at this meeting.

Finally, we extend our thanks to the session chairs, presenters, authors, and volunteers for their continued commitment to AIChE. You are all essential to the success of this meeting.

Have a wonderful time here in New Orleans.

Alan E. Nelson
2024 AIChE President



2024 SPRING MEETING & 20TH GCPS LEADERSHIP, POLICIES AND NOTICES

2024 SPRING MEETING & 20TH GCPS MEETING LEADERSHIP



Tony Cai
2024 Spring Meeting
Program Chair
Chief Scientist
Fractional Research Inc. (FRI)



Virginia Sommer
2024 Spring Meeting
Program Co-Chair
Process/Specialty Engineer
Fluor Corporation



Laura Ankrom
2024 GCPS Chair
Vice President
Process Safety Core Consulting



Irfan Shaikh
2024 GCPS Vice-Chair
Senior Technical Safety
Engineer
Chevron Technical Center

MEETING POLICIES AND NOTICES

Recording & Photography Policy

AIChE® Meetings are one of the primary ways the Institute fulfills its mission to advance the development and exchange of relevant knowledge. The content presented at this event is the property of the presenters and the firms where they work. Recording of sessions or taking photos of slides is strictly prohibited.

General Photography Notice

Sessions and events at the meeting are being photographed by a professional photographer. These photos will be used to illustrate articles in CEP Chemical Engineering Progress® Magazine, on the AIChE website and in promotional materials for future Meetings. By registering for this conference, you consent to your likeness being used for such purposes without compensation and release AIChE from any liability on account of such usage.

Code of Conduct

All Spring Meeting attendees, volunteers, and staff are expected to abide by the AIChE Code of Conduct. Read the full [Code of Conduct](#).

Code of Ethics

All Spring Meeting attendees, volunteers, and staff are expected to abide by the AIChE Code of Ethics. Read the full [Code of Ethics](#).

AIChE Equity, Diversity, and Inclusion Statement

AIChE is committed to promoting a fair, just, and equitable profession and society. [Read the full statement](#).

Health and Safety

The Spring Meeting has implemented a set of safety protocols to keep attendees safe. For more information on this, please consult the [Meeting FAQ](#)

2024 SPRING MEETING & 20TH GCPS ORGANIZING COMMITTEE

Separations Division - See Also Topical 8

Anand Vennavelli, Koch-Glitsch

Management Division

Donna Bryant, Syngenta

Harold Conner, UCOR

Joseph Cramer, AIChE

Gayle Gibson, Accordant Advisors

Udit Gupta, Siemens

Aditi Khadilkar, N/A

Daniel Kriozere, Lawrence Livermore National Laboratory

Mark Swientoniewski, Strata G

Computing and Systems Technology Division

Carl Laird, Sandia National Laboratories

Process Development Division

Juben Chheda, Shell Oil Inc.

Chemical Engineering & the Law Forum

Joseph Cramer, AIChE

Paul Townsend, Finnegan, Henderson, Farabow, Garrett & Dunner, LL

Industry 4.0 Topical Conference

Bea Braun, Dow Chemical Company

Ivan Castillo, Dow Chemical Company

Global Congress on Process Safety

Laura Ankrom, Process Safety Core Consulting

Irfan Shaikh, Chevron Technical Center

Topical 4: The 36th Ethylene Producers Conference

Joseph Berret, NOVA Chemicals

Daryl Bitting, Eastman Chemical Company

Jeffrey Elam, INEOS

Sanjeev Kapur, Apex PetroConsultants

Micheal Smith, ExxonMobil Chemical

Mark Whitney, Linde Engineering

Topical 5: Emerging Technologies in Clean Energy

Zheng Chen, UCSD

Yangchuan Xing, University of Missouri

Topical 6: 24th Topical Conference on Gas Utilization

Zhe Cui, Shell Global Solutions

Belma Demirel, BP

Nimir Elbashir, Texas A&M University at Qatar

Debalina Sengupta, NA

Saadet Ulas Acikgoz, Honeywell UOP

Topical 7: 27th Topical Conference on Refinery Processing

Ellen Arnold,

Debalina Sengupta, NA

Robert Sigal, BP

Saadet Ulas Acikgoz, Honeywell UOP

Topical 8: Distillation

Tony Cai, Fractionation Research Inc.

Gregory Cantley, Marathon Petroleum Company LP

Izak Nieuwoudt, Fractionation Research Inc

Anand Vennavelli, Koch-Glitsch LP

Topical 11: 3rd Topical Conference on Heat Exchangers

Francesco Coletti, Hexxcell Ltd

Debalina Sengupta, NA

Saadet Ulas Acikgoz, Honeywell UOP

Nicholas Urbanski, XTO Energy, Inc.

Topical 12: Hydrogen Safety

Paul Alderson, Center for Hydrogen Safety

Nick Barilo, AIChE

Topical 15: The Energy Transition

Debalina Sengupta

Kirtan Trivedi, ExxonMobil

Saadet Ulas Acikgoz, Honeywell UOP

Topical 16: Petrochemicals

Christopher Buehler, Exponent, Inc.

Eberhard Lucke, Lucke Consulting

Debalina Sengupta, NA

Saadet Ulas Acikgoz, Honeywell UOP

2024 SPRING MEETING & 20TH GCPS ORGANIZING COMMITTEE

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Irfan Shaikh, GCPS Co-Chair
Don Connolley, CCPS Chair
Lauren Moyer, CCPS Vice Chair
Ian Mylenbusch, PPSS Chair
Tracy Carter, PPSS Vice Chair
Manuel Herce, LPS Chair
Katie Mulligan, LPS Vice Chair
Bill Mosier, PSMM Chair
Todd Drennen, PSMM Vice Chair
Eduardo Francisco, PPSAW Chair
Fabio Rossi, PPSAW Vice Chair

Session Chairs

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Gaurav Arora, Bechtel OIL GAS AND CHEMICALS INC
Swarup Bade, Lloyd's Register Energy Americas, Inc.
Alison Ballon, AcuTech Group, Inc.
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Sean Dee, Exponent
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Henry Dwight, BP Global Wells Organization
Meng Yi Fei, CCPS China Section
Ryan Ford, Shepherd Chemical Company
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Jeffrey Fox, CCPS Emeritus
James Green, SABIC
Frederick Gregory, Lubrizol Corp
Scott Haney, Americas Styrenics
Steve Hawkins, Environmental Resources Management, Inc.
Fred Henselwood, NOVA Chemicals
Rainer Hoff, Gateway Consulting Group Inc

Kumar Israni, Environmental Resources Management (ERM)
Kathleen Kas, Dow Chemical Company
Alyse Keller, Cargil
Margery Kosch, 3M
Michell LaFond, Dow Chemical Company
Nicole Loontjens, Americas Styrenics LLC
Srihari Maganti, Brown and Root Industrial Services
Nathan Markham, ExxonMobil
James Martin, Corteva
Matias Massello, Process Improvement Institute, Inc.
Bruno Menegatti Esperandio, VALE SA
Davide Moncalvo, Braunschweiger Flammenfilter GmbH
David Moore, AcuTech Consulting Group
Jessica Morris, Exponent
Delmar Morrison, Exponent Inc
Lauren Moyer, Eastman Chemical Company
Caitlin Mullan, Ashland
Neal Muller, Stephan
Katie Mulligan, Dow Chemical Company
Valecia Murphy, Huntsman
Philip Myers, Advantage Risk Solutions Inc
Louisa Nara, CCPS Emeritus
Pamela Nelson, Iomosiatic
Paul Osterberg, DEKRA Process Safety
Katherine Pearson, N/A
Katherine Prem, LyondellBasell
Morgan Reed, MMI Engineering
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Heber Varela, Pluspetrol
Jennifer Villalobos, TOTAL Petrochemicals & Refining
Qingsheng Wang, Texas A&M University
Julie White, Chevron
John Wincek, DEKRA Process Safety
Lydia Wright, Celanese Chemicals
Dong-feng Zhao, China University of Petroleum

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SPONSORED TECHNOLOGY WORKSHOPS



Sign up for these informational workshops, from Sustainability Innovation and Integrating PSM into Operational Risk Management to P&ID's and Information Management and Streamlining Your Chemical Management Processes and more. Access valuable insights to help you learn about the latest technologies and find solutions to your current, as well as future, challenges.

MONDAY, MARCH 25



THE DIGITAL SME FOR KNOWLEDGE TRANSFER IN OPERATIONS

Monday, March 25 2024: 1:30 - 3:00 PM | Room 211

Presenter: Clint Jeffus

Major customers from petrochemicals, specialty chem and refining have shared the challenges they face daily in their plants:

- Few SMEs (Subject Matter Experts), who are overwhelmed
- Turnover and onboarding
- Equipment specific incidents due to procedure execution and know-how
- Operational Discipline
- Training and regulatory requirements

This impacts process safety and other HSE/operations variables. We will dig deeper into a digital SME, available 24/7, where operators can review, practice procedures before they perform them. The platform can be used to qualify and requalify operators on equipment and units. We will look at the impact this has had in loading/unloading operations, technical gas plants, major petrochemical facilities, refineries and discrete manufacturing.



EXPLORING THE INVISIBLE THREATS IN PRESSURE RELIEF AND FLARE ANALYSIS: BRIDGING THE GAPS

Monday, March 25 2024: 1:30 – 3:00 PM | Rooms 215-216

Presenter: Nancy Faulk

Join us as we delve into real-world best practices, lessons learned, and case studies and learn from experts in the field. The workshop topics will extend through Pressure Relief and Flare Systems lifecycle from design, engineering, and data management. In addition, experts will present valuable lessons and common pitfalls that they encountered and explain how these oversights could lead to overpressure safety incidents if left undetected. Whether you're a seasoned professional or just starting your pressure relief journey, this workshop will provide valuable insights to enhance the effectiveness of your pressure relief and flare systems data management.



DYNAMIC MANAGEMENT OF SAFEGUARDS - GETTING MORE AND MORE GRANULAR

Monday, March 25 2024: 3:30 - 5:00 PM | Room 211

Presenter: Alwin Van Aggelen

Showing the evolution of Dynamic Management of Safeguards

- Started as (IOGP) barrier category + performance standard level mostly concentrated on maintenance data to inform barrier health
- Moved into more specific monitoring with Dynamic Bowtie (monitoring critical scenarios and barriers on break-down element level). Adding more data than just CCMS data -> competency, sensors, alarm management etc.
- Evolution of Dynamic Bowtie = System-based bowties that are closer reflecting the risk and status of processing systems
- Next stage is even more detailed/granular with scenarios coming directly from PHA (HAZOP/LOPA) and visualizing impact of degradation on safeguards, while taking semi-quantitative approach (PFD/RRF) into account to show risk impact on dynamically updating risk matrix for current risk.
- Process Safety Information (PSI) always available in digital form and (due to shared master data etc.) easily retrievable during PHA study prep
- Operational information (MOCs, inspection results etc.) triggering PHA review under certain conditions
- Future state = operational deviation trends feeding back to PHA study to make those fully dynamic and perform condition-based instead of time-based revalidations



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P&ID'S AND PSI/MAINTENANCE INFORMATION MANAGEMENT: HOW CAN THEY WORK TOGETHER?

Tuesday, March 26 2024: 8:00 – 9:00 AM | Room 211

Presenter: Stephen Nelson

An unfortunate trend in today's workflow is that once a P&ID has been released for construction, the integrity and data starts to get lost. As a manager you could pay upward of \$2,000 for an updated P&ID and still end up with a piece of paper that does not achieve your end goals. In this workshop we can help you understand how to create a value-added P&ID that achieves ease of use and provides a PSI repository which in turn will create ownership for the PSI and PSM data at your facility and improve your auditing success. Most facilities information retrieval is sporadic and forces you down a winding rabbit hole of document accessibility and the path followed is usually very time-consuming and confusing. We can show you a P&ID with enhanced data storage capability to solve your information gaps and create successful information management retrieval. When information access and maintainability becomes simple, it causes your personnel to take ownership of the information management and its requirements. This workshop would benefit anyone that needs to access and maintain PSM PSI for their facility and wants to have a simple solution for information management.



FILLING IN KNOWLEDGE GAPS AS A PART OF PROCESS SAFETY CULTURE

Tuesday, March 26 2024: 8:00 - 9:30 AM | Rooms 208-209

Presenter: Jeremy Pafford

At the heart of process safety culture is the commitment of employers to their employees, who must be given the tools and opportunities to put process safety into action. One of the core challenges we have seen to making this commitment work is a lack of easy to use information resources for employees at all levels to understand and recognize safety issues. Minimizing the risk of knowledge gaps is one key area that organizations can address via the implementation of digital tools, resources libraries, and training regimens. This also helps organizations make the most of their workforce in managing process safety, shifting the culture from one where a small team handles all safety issues to one where every employee has the ability to recognize and report potential problems before they become larger issues. In this session we will describe how Elsevier has partnered with engineering firms to help nurture a process safety culture through the creation of easy to use tools that make it easier for employees at all levels to operate with process safety in mind.



HOW TO ENSURE YOUR FACILITY IS SAFE IN A COST-EFFECTIVE MANNER

Tuesday, March 26 2024: 10:15 - 11:45 AM | Room 211

Presenter: Scott Davis

Facility owners and operators are often faced with difficult questions regarding their facilities' safety. Many of these decisions have serious economic repercussions in the lifecycle of an asset and require further engineering analysis. Retrofitting an existing facility, adding new equipment, or building a new module in a facility can represent millions of dollars in capital and operational expenditures, so it is imperative to conduct proper assessments to achieve safety objectives in a cost-effective manner. This technical workshop will highlight case studies on how to address safety challenges as they pertain to facility siting. We'll explore examples that demonstrate how to use quantitative, consequence-predictive tools for informed decision-making with safety as a priority. It will also address strengths and limitations with various study types as they increase in complexity, establishing a process to deliver comprehensive safety assessments with business economics in mind.



CCS AND GREEN HYDROGEN PROCESS MODELING USING SYMMETRY

Tuesday, March 26 2024: 1:30 - 3:00 PM | Room 211

Presenter: Pradeep Pawar

There is an increased focus on limiting global warming to below 2°C which requires a 140 times increase in installed carbon capture and storage (CCS) capacity. There are unique challenges when dealing with accurate modeling of the CCS process in the form of CO₂ solidification, hydrates or even shifting between vapor and liquid boundaries. It is essential to evaluate these risks to operations and to recognize their impact on process downtime or performance. Increased interest in green hydrogen as a clean energy alternative requires the availability of process simulation tools that can model the full lifecycle from hydrogen generation to distribution. Hydrogen systems present challenges in terms of thermodynamics and safety systems, which may increase risk during design and operations. Please join this workshop to learn about how the Symmetry process simulation platform can help solve various design and operational challenges in CCUS and Green Hydrogen processes.

ONSITE INFORMATION

ALL EVENTS TAKE PLACE IN HALL B-1



COFFEE BREAKS

Monday, March 25

9:00 AM – 9:30 AM

3:00 PM – 3:30 PM

Tuesday, March 26

9:00 AM – 10:15 AM

3:00 PM – 3:30 PM

Wednesday, March 27

9:00 AM – 10:15 AM



RECEPTIONS

Conference Opening Reception

Sunday, March 24

6:00 PM – 7:30 PM

Poster Reception

Monday, March 25

5:00 PM – 7:00 PM

Happy Hour

Tuesday, March 26

5:15 PM – 6:30 PM



EXHIBIT HALL HOURS

Sunday, March 24

6:00 PM – 7:30 PM

Monday, March 25

9:00 AM – 12:00 PM

1:30 PM – 7:00 PM

Tuesday, March 26

9:00 AM – 12:00 PM

1:30 PM – 6:30 PM

Wednesday, March 27

9:00 AM – 11:00 AM

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- **Explore:** The explore page is your home for finding important Meeting information, upcoming events, and links to all things #AIChESpring. The explore page will be updated regularly, so be sure to check the explore screen throughout the week for the latest Spring Meeting news.

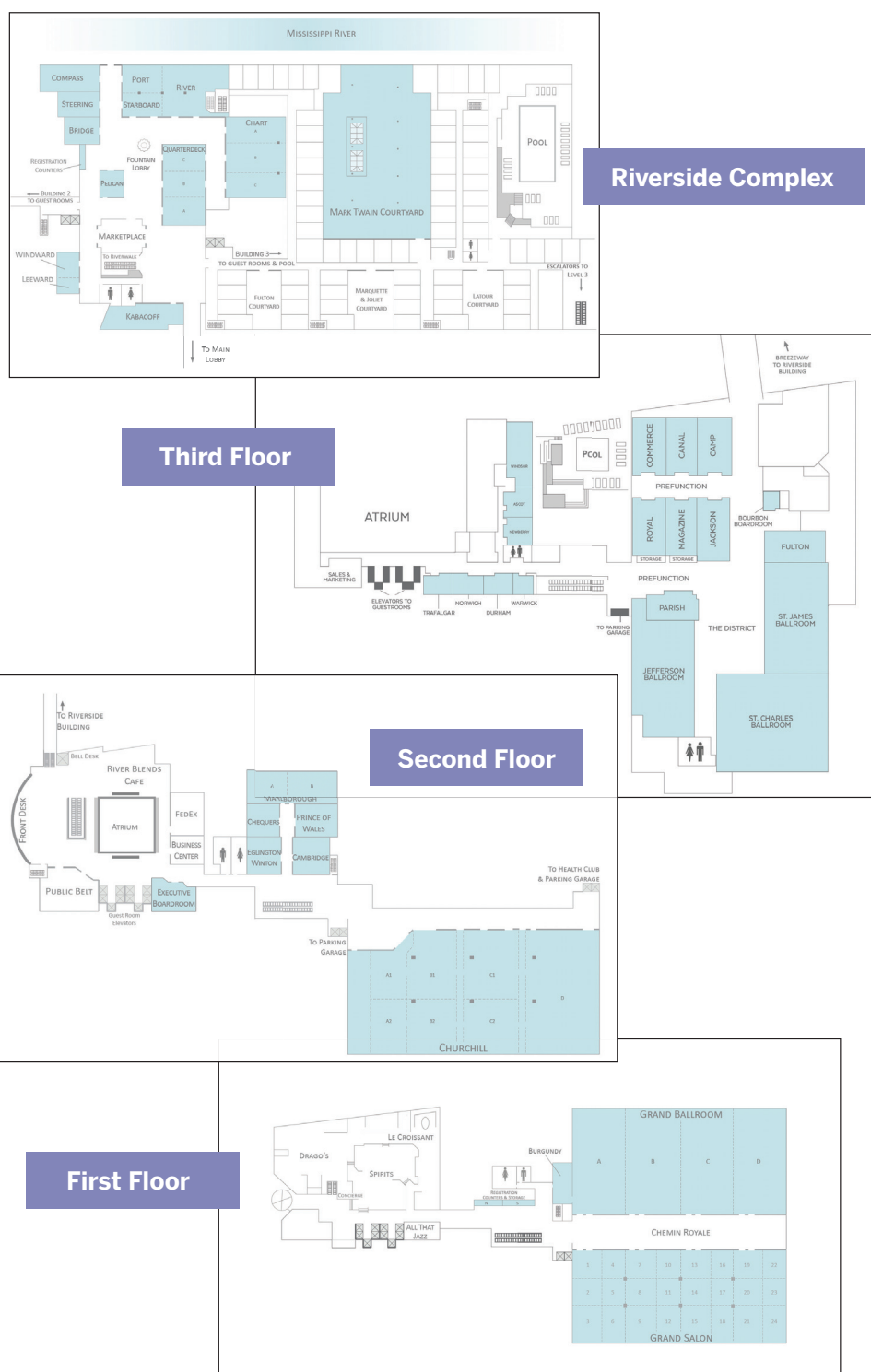
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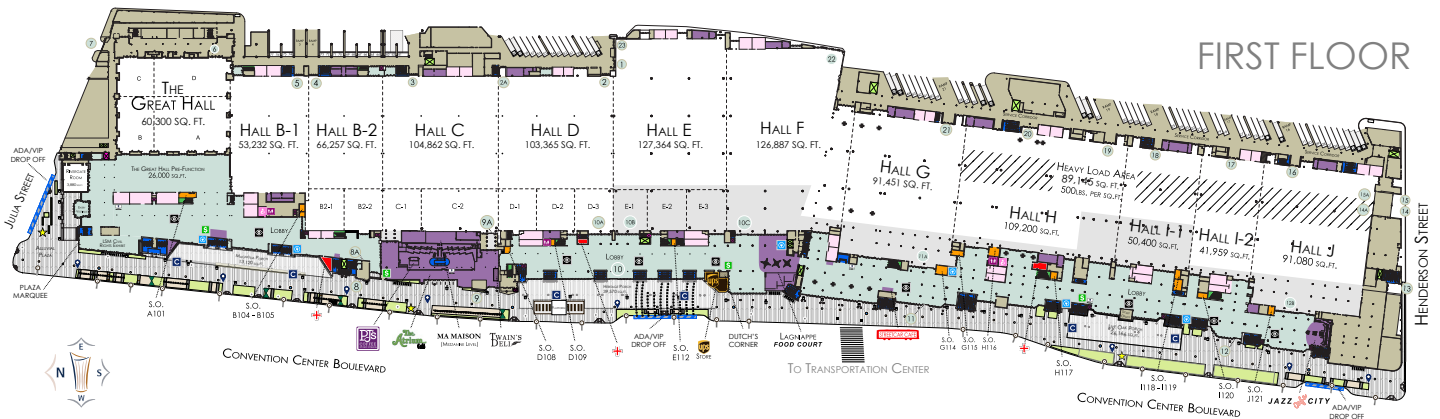
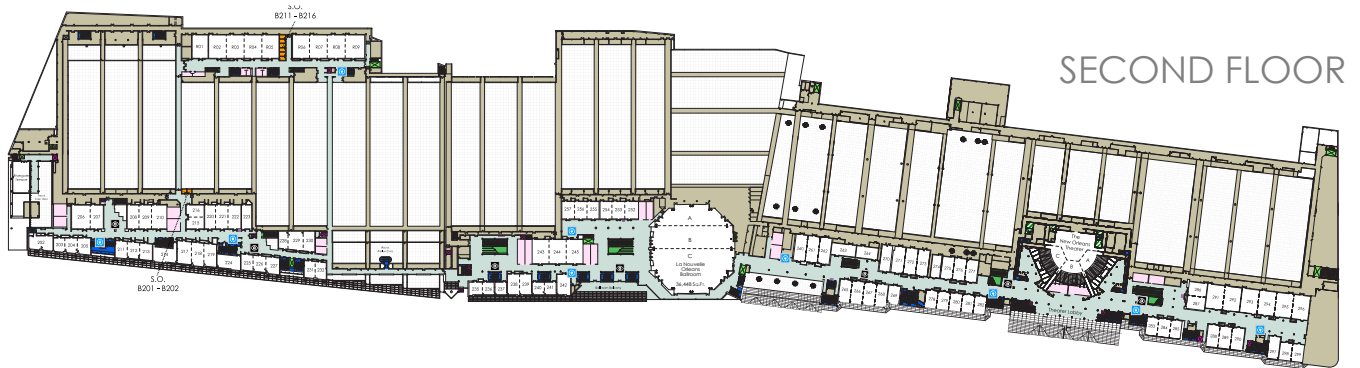
VENUE FLOOR PLANS

HILTON NOLA RIVERSIDE



VENUE FLOOR PLANS

NEW ORLEANS ERNEST N. MORIAL CONVENTION CENTER



2024 SPRING MEETING & 20TH GCPS

PROGRAM GRID KEY

The full technical program of the 2024 Spring Meeting & 20th GCPS is comprised of original programming from AIChE®'s divisions and forums, topical conferences, and communities.

See below for a list of the subject areas covered at the 2024 Spring Meeting & 20th GCPS.

02A Separations Division

02A - Distillation and Absorption

05 Management Division

09 Environmental Division

10 Computing Systems and Technology Division

12 Process Development Division

12A - Process Research and Innovation

12C - Technology Transfer and Manufacturing

16 Fuels and Petrochemicals Division

24 Chemical Engineering & the Law Forum

TB Topical B: Leadership Development – Professional Skills to Catalyze your Career

TD Industry 4.0 Topical Conference

TDA - 10th Analytics and Artificial Intelligence

TDB - 5th Enabling Industry Technologies Topical

T1 Global Congress on Process Safety

T1A - 25th Process Plant Safety Symposium (PPSS)

T1B - 38th Center for Chemical Process Safety (CCPS) International Conference

T1C - 57th Annual Loss Prevention Symposium (LPS)

T1D - 12th Process Safety Management Mentoring (PSMM) Symposium

T1E - Perspectives on Process Safety from Around the World

T4 The 36th Ethylene Producers Conference

T5 Topical 5: Emerging Technologies in Clean Energy

T6 Topical 6: 24th Topical Conference on Gas Utilization

T7 Topical 7: 26th Topical on Refinery Processing

T8 Topical 8: Distillation Symposium

T12 Hydrogen Safety



Please refrain from photographing slides or taking video of sessions and presentations.

2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

02A - Separations Division			
Day	Time	Session Title	Room
Monday, March 25	1:30 PM	Separations Process Fundamentals	202
Monday, March 25	3:30 PM	Separations Process Fundamentals II	202
Monday, March 25	5:00 PM	Poster Session: Separations Division	Hall B-1

05 - Management Division			
Day	Time	Session Title	Room
Monday, March 25	9:30 AM	Sustainability in Management	224
Monday, March 25	1:30 PM	Role of Leadership and Management in Process Safety in Evolving Organizational Culture	224
Monday, March 25	3:30 PM	Role of Leadership and Management in Evolving Organizational Culture	224
Tuesday, March 26	1:30 PM	Mastering the Art of Leadership at the 'Beignet Soiree' – A Panel Discussion and Reception Sponsored by ECC and the MGMT Division - TICKETED EVENT*	225-226
Tuesday, March 26	3:30 PM	Young Leader Award Session: Leadership through AI Technology Transformation	224

09 - Environmental Division			
Day	Time	Session Title	Room
Monday, March 25	9:30 AM	Panel Session: Extreme Weather and Natural Disasters - An Environmental and Legal Perspective	219
Monday, March 25	3:30 PM	Role of Leadership and Management in Evolving Organizational Culture*	224
Monday, March 25	5:00 PM	Environmental Division Poster Session	Hall B-1
Tuesday, March 26	10:15 AM	Carbon Management and Sustainability	219
Tuesday, March 26	1:30 PM	Environmental Issues and Controls in Select Industrial Sectors I	219
Tuesday, March 26	3:30 PM	Environmental Issues and Controls in Select Industrial Sectors II	219



* This session is co-sponsored by one or more programming groups

This program is as of March 5th, 2024. An up-to-date program is available at aiche.org/spring and in the AICHEvents app.

2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

09D - Process Development			
Day	Time	Session Title	Room
Sunday, March 24	5:00 PM	Process Development Division (PDD) General Meeting*	203-204
Monday, March 25	5:00 PM	Process Development Division (PDD) Programming Meeting*	231-232
Tuesday, March 26	7:00 PM	Process Development Division (PDD) Reception & Dinner - TICKETED EVENT*	Patio Room

09G - Sustainability			
Day	Time	Session Title	Room
Monday, March 25	9:30 AM	Sustainability in Management*	224
Monday, March 25	3:30 PM	Role of Leadership and Management in Evolving Organizational Culture*	224

10 - Computing Systems and Technology Division			
Day	Time	Session Title	Room
Wednesday, March 27	8:00 AM	Process Modeling, Simulation, and Optimization	219
Wednesday, March 27	1:30 PM	Process Dynamics, Safety, and Control	219

12 - Process Development Division			
Day	Time	Session Title	Room
Monday, March 25	3:30 PM	Advances in Process Design and Development II	231-232
Monday, March 25	5:00 PM	Poster Session: Process Development Division	Hall B-1
Tuesday, March 26	10:15 AM	Modeling Tools and Techniques for Process R&D II	231-232



* This session is co-sponsored by one or more programming groups
 This program is as of March 5th, 2024. An up-to-date program is available at aiche.org/spring and in the AICHEvents app.

2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

12A - Process Research and Innovation			
Day	Time	Session Title	Room
Monday, March 25	1:30 PM	Advances in Process Design and Development	231-232
Tuesday, March 26	8:00 AM	Modeling Tools and Techniques for Process R&D I	231-232
Tuesday, March 26	1:30 PM	Advanced Carbon Reduction Technologies	231-232
Tuesday, March 26	3:30 PM	Advanced Carbon Reduction Technologies II	231-232

12B - Pilot Plant			
Day	Time	Session Title	Room
Wednesday, March 27	8:00 AM	Process Scale Up and Safety	231-232
Wednesday, March 27	10:15 AM	Process Scale Up and Safety II	231-232

12C - Tech Transfer and Manufacturing			
Day	Time	Session Title	Room
Wednesday, March 27	1:30 PM	Cost-Effective Commercialization of New Processes or Products	231-232

18 - Liaison Functions			
Day	Time	Session Title	Room
Monday, March 25	8:00 AM	2024 AIChE Spring Meeting & 20th GCPS AGILE Award Keynote Address	Great Hall AD
Monday, March 25	12:00 PM	2024 AIChE Spring Meeting & 20th GCPS Monday Luncheon Keynote	Great Hall AD
Tuesday, March 26	11:45 AM	2024 AIChE Spring Meeting & 20th GCPS Tuesday Luncheon Keynote	Great Hall AD
Wednesday, March 27	11:45 AM	2024 AIChE Spring Meeting & 20th GCPS Wednesday Luncheon Keynote	Great Hall AD

24 - Chemical Engineering and the Law			
Day	Time	Session Title	Room
Monday, March 25	5:00 PM	Chemical Engineering and the Law Poster Session	Hall B-1
Tuesday, March 26	8:00 AM	Intellectual Property Law Panel	219



* This session is co-sponsored by one or more programming groups

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2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

T1 - Global Congress on Process Safety			
Day	Time	Session Title	Room
Monday, March 25	9:30 AM	GCPS Welcoming Plenary and Keynote	Great Hall AD
Monday, March 25	10:30 AM	Portuguese Session: <i>Gestão da Segurança de Processos baseada em Risco I</i>	223
Monday, March 25	1:30 PM	20th GCPS Best-of-the-Best Spotlight I*	208-209
Monday, March 25	1:30 PM	Portuguese Session: <i>Gestão da Segurança de Processos baseada em Risco II</i>	223
Monday, March 25	3:30 PM	20th GCPS Best-of-the-Best Spotlight II*	208-209
Monday, March 25	3:30 PM	Portuguese Session: <i>Gestão da Segurança de Processos baseada em Risco III</i>	223
Monday, March 25	5:00 PM	GCPS - Process Safety Poster Session	Hall B-1
Tuesday, March 26	8:00 AM	Portuguese Session: <i>Gestão da Segurança de Processos baseada em Risco IV</i>	223
Tuesday, March 26	10:15 AM	Spanish Session: Marcos de gestión e implementación PSM	223
Tuesday, March 26	1:30 PM	Process Safety Activities in China I	223
Tuesday, March 26	3:30 PM	Process Safety Activities in China II	223
Wednesday, March 27	8:00 AM	Spanish Session: Análisis Técnicos de riesgos y barreras	223
Wednesday, March 27	10:15 AM	Spanish Session: Tecnología y herramientas para PSM	223
Wednesday, March 27	1:30 PM	GCPS Joint Session: Case Histories and Lessons Learned	Great Hall AD



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2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

T11A - Heat Exchangers			
Day	Time	Session Title	Room
Monday, March 25	1:30 PM	Keynote: Electrification of Cracking Furnaces, Robert Broekhuis, Chief Scientist - Engineering Science, SABIC	205
Monday, March 25	3:30 PM	Special Session in Honor of Professor Kenneth Bell	205
Tuesday, March 26	8:00 AM	Electrical Heaters	205
Tuesday, March 26	10:15 AM	Modeling, Simulation, Design, and Optimization of Heat Exchangers	205
Tuesday, March 26	1:30 PM	Heat Exchanger Fouling Mitigation	205
Tuesday, March 26	3:30 PM	New Heat Exchangers and Heat Transfer Enhancement Technologies	205
Wednesday, March 27	8:00 AM	Coating for Heat Transfer applications	205
Wednesday, March 27	10:15 AM	Digital Transformation, AI and IoT Technology Applications to Heat Exchangers	205
Wednesday, March 27	1:30 PM	Heat Exchanger Cleaning	205
Wednesday, March 27	3:30 PM	Heat Exchanger Cleaning II	205

T12 - Hydrogen Safety Topical Conference			
Day	Time	Session Title	Room
Monday, March 25	1:30 PM	Hydrogen Safety & Industrial Applications as part of the Energy Transition I	219
Monday, March 25	3:30 PM	Hydrogen Safety & Industrial Applications as part of the Energy Transition II	219



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2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

T15A - The Energy Transition			
Day	Time	Session Title	Room
Monday, March 25	3:30 PM	INVITED: Energy Transition Roundtable with Energy Leaders	203-204
Tuesday, March 26	8:00 AM	Management of Change and Technology Implementation in Energy Transition	203-204
Tuesday, March 26	10:15 AM	Management of Change and Technology Implementation in Energy Transition II	203-204
Tuesday, March 26	1:30 PM	New Technologies in Energy Transition	203-204
Tuesday, March 26	1:30 PM	Meeting Net Zero Targets: Developments in Sustainability & Emission Reduction*	202
Tuesday, March 26	3:30 PM	New Technologies in Energy Transition II	203-204
Wednesday, March 27	8:00 AM	Design for Energy Transition	203-204
Wednesday, March 27	8:00 AM	Modeling for Energy Transition	207
Wednesday, March 27	10:15 AM	Analysis for Energy Transition	203-204
Wednesday, March 27	10:15 AM	Modeling for Energy Transition II	207
Wednesday, March 27	1:30 PM	Transportation Considerations in Energy Transition	203-204
Wednesday, March 27	3:30 PM	Feedstock Expansion for Energy Transition	203-204

T16A - Topical 16: Petrochemicals			
Day	Time	Session Title	Room
Monday, March 25	5:00 PM	Poster Session: Fuels and Petrochemicals Division	Hall B-1
Tuesday, March 26	8:00 AM	Process Control and Optimization Developments	206
Tuesday, March 26	10:15 AM	Process Control and Optimization Developments II	206
Tuesday, March 26	1:30 PM	Developments in Petrochemicals	206
Tuesday, March 26	3:30 PM	Refinery - Petrochemical Integration	206



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2024 SPRING MEETING & 20TH GCPS TECHNICAL PROGRAM GRID

T16A - Topical 16: Petrochemicals			
Day	Time	Session Title	Room
Wednesday, March 27	8:00 AM	Feedstocks from Recycled Materials	206
Wednesday, March 27	10:15 AM	Feedstocks from Recycled Materials II	206
Wednesday, March 27	1:30 PM	Advances in Ammonia as a Fuel/Hydrogen Carrier	206

T1A - 26th Process Plant Safety Symposium (PPSS)			
Day	Time	Session Title	Room
Monday, March 25	10:30 AM	Knowledge Transfer: Combatting the Half-life of Institutional Memory	220-221
Monday, March 25	1:30 PM	20th GCPS Best-of-the-Best Spotlight I*	208-209
Monday, March 25	1:30 PM	Hello Sustainability - Remember to Consider Process Safety and Inherently Safer Design	220-221
Monday, March 25	1:30 PM	Role of Leadership and Management in Process Safety in Evolving Organizational Culture*	224
Monday, March 25	3:30 PM	Implementing Facility Siting Study Recommendations	220-221
Monday, March 25	3:30 PM	20th GCPS Best-of-the-Best Spotlight II*	208-209
Tuesday, March 26	8:00 AM	Improvement of PHA Leadership and Study Outcomes I	220-221
Tuesday, March 26	10:15 AM	Improvement of PHA Leadership and Study Outcomes II	220-221
Tuesday, March 26	1:30 PM	QRA and LOPA: Beyond a PHA	220-221
Tuesday, March 26	3:30 PM	Yoda Panel - Bridging Generations with Yoda and Grogu	220-221
Wednesday, March 27	8:00 AM	Identification, Verification, and Validation of Independent Protection Layers (IPLs) and Safeguards	220-221
Wednesday, March 27	10:15 AM	Process Safety Value Proposition	220-221



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2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

T1B - 39th Center for Chemical Process Safety (CCPS) International Conference			
Day	Time	Session Title	Room
Monday, March 25	10:30 AM	Perspectives on Human Performance for Operational Excellence	217-218
Monday, March 25	1:30 PM	20th GCPS Best-of-the-Best Spotlight I	208-209
Monday, March 25	1:30 PM	Learning from Experience	217-218
Monday, March 25	3:30 PM	Process Safety in a Climate-Friendly Future World	217-218
Monday, March 25	3:30 PM	20th GCPS Best-of-the-Best Spotlight II	208-209
Tuesday, March 26	8:00 AM	Don't Pardon the Dust – Risk-Based Approaches to Managing Combustible Dust Hazards	217-218
Tuesday, March 26	10:15 AM	Advances and Innovations to Drive Highly Effective Asset Integrity Programs	217-218
Tuesday, March 26	1:30 PM	Winning the Hearts and Minds – Excellence in Process Safety Culture I	217-218
Tuesday, March 26	3:30 PM	Winning the Hearts and Minds – Excellence in Process Safety Culture II	217-218
Wednesday, March 27	8:00 AM	Continuous Improvement with RAGAGEP - Managing Changing Standards and Best Practices	217-218
Wednesday, March 27	10:15 AM	Effective Process Safety Management Programs	217-218

T1C - 58th Annual Loss Prevention Symposium (LPS)			
Day	Time	Session Title	Room
Monday, March 25	10:30 AM	Garbage In, Garbage Out: Impact of Technical Quality Failures on Process Safety	210
Monday, March 25	1:30 PM	20th GCPS Best-of-the-Best Spotlight I*	208-209
Monday, March 25	1:30 PM	Fires, Explosions, Combustible Dusts, and Chemical Reactivity I	210
Monday, March 25	1:30 PM	Role of Leadership and Management in Process Safety in Evolving Organizational Culture*	224
Monday, March 25	3:30 PM	20th GCPS Best-of-the-Best Spotlight II*	208-209
Monday, March 25	3:30 PM	Fires, Explosions, Combustible Dusts, and Chemical Reactivity II	210



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2024 SPRING MEETING & 20TH GCPS TECHNICAL PROGRAM GRID

T1C - 58th Annual Loss Prevention Symposium (LPS)			
Day	Time	Session Title	Room
Tuesday, March 26	8:00 AM	Facility Siting, Consequence Analysis, and Risk Assessment I	210
Tuesday, March 26	10:15 AM	Facility Siting, Consequence Analysis, and Risk Assessment II	210
Tuesday, March 26	1:30 PM	Transportation Safety and Risk Analysis	210
Tuesday, March 26	3:30 PM	Emergency Planning and Response	210
Wednesday, March 27	8:00 AM	Hydrogen Safety	210
Wednesday, March 27	10:15 AM	Instrumented Safeguards and Cybersecurity	210

T1D - 13th Process Safety Management Mentoring (PSMM) Symposium			
Day	Time	Session Title	Room
Monday, March 25	10:30 AM	Tutorials in Process Plant Safety Symposium (PPSS)	222
Monday, March 25	1:30 PM	The Faces of Process Safety: Process Safety Mentoring for Our IDEAL Workforce	222
Monday, March 25	1:30 PM	20th GCPS Best-of-the-Best Spotlight I*	208-209
Monday, March 25	3:30 PM	What is Process Safety Culture and How Does It Apply to Me?	222
Monday, March 25	3:30 PM	20th GCPS Best-of-the-Best Spotlight II*	208-209
Tuesday, March 26	8:00 AM	Tutorials in Loss Prevention Symposium (LPS)	222
Tuesday, March 26	10:15 AM	Lies We Tell Ourselves – Cognitive Bias and Human Performance in Process Safety	222
Tuesday, March 26	1:30 PM	What I Want to Be When I Grow Up - Careers in Process Safety	222
Tuesday, March 26	3:30 PM	<i>What is Lurking Under the Radar? Process Safety Essentials You Need to Know</i>	222
Wednesday, March 27	8:00 AM	Tutorials in Center for Chemical Process Safety (CCPS) International Conference	222
Wednesday, March 27	10:15 AM	The Day PSM Hit Home	222



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2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

T4 - The 36th Ethylene Producers Conference			
Day	Time	Session Title	Room
Monday, March 25	9:30 AM	Industry 4.0 in Ethylene Production	R08-R09
Monday, March 25	9:30 AM	Ethylene Producers General Topics	R06-R07
Monday, March 25	1:30 PM	EPC Keynote	R08-R09
Monday, March 25	2:30 PM	Ethylene Plant Maintenance & Reliability	R06-R07
Monday, March 25	2:30 PM	Tutorial: Flare Operations in a Post E-MACT World	R08-R09
Tuesday, March 26	8:00 AM	Contaminants and Impurities in Ethylene Plants	R08-R09
Tuesday, March 26	8:00 AM	Ethylene Plant Rotating Equipment	R06-R07
Tuesday, March 26	2:00 PM	Ethylene Plant Technology Fundamentals	R08-R09
Tuesday, March 26	2:00 PM	Contaminants Tutorial	R06-R07
Wednesday, March 27	8:00 AM	Ethylene Plant Environmental and Sustainability	R08-R09
Wednesday, March 27	8:00 AM	Ethylene Plant Operations	R06-R07
Wednesday, March 27	2:00 PM	Ethylene Plant Safety	R08-R09
Thursday, March 28	8:00 AM	Circular Economy/Decarbonization	R08-R09

T5 - Topical 5: Emerging Technologies in Clean Energy			
Day	Time	Session Title	Room
Monday, March 25	5:00 PM	Poster Session: Emerging Technologies in Clean Energy	Hall B-1
Tuesday, March 26	8:00 AM	Alternative Fuels Including Biofuels, Hydrogen, Renewable Hydrogen, and Syngas I	215-216
Tuesday, March 26	10:15 AM	Alternative Fuels Including Biofuels, Hydrogen, Renewable Hydrogen, and Syngas II	215-216
Tuesday, March 26	1:30 PM	Alternative Fuels Including Biofuels, Hydrogen, Renewable Hydrogen, and Syngas III	215-216
Tuesday, March 26	3:30 PM	Alternative Fuels Including Biofuels, Hydrogen, Renewable Hydrogen, and Syngas IV	215-216



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2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

T5 - Topical 5: Emerging Technologies in Clean Energy			
Day	Time	Session Title	Room
Wednesday, March 27	8:00 AM	CO ₂ Capture, Utilization, and Disposal: Key to Clean Energy Production I	215-216
Wednesday, March 27	10:15 AM	CO ₂ Capture, Utilization, and Disposal: Key to Clean Energy Production II	215-216

T6A - Topical 6: 22 nd Topical Conference on Gas Utilization			
Day	Time	Session Title	Room
Monday, March 25	1:30 PM	Keynote - 22nd Topical Conference on Gas Utilization	207
Monday, March 25	3:30 PM	LNG & Hydrogen Safety	207
Tuesday, March 26	8:00 AM	Decarbonization of Gas Processing	207
Tuesday, March 26	10:15 AM	Decarbonization of Gas Processing II	207
Tuesday, March 26	1:30 PM	Gas Utilization (Methane, Ethane, and CO ₂)	207
Tuesday, March 26	3:30 PM	Gas Utilization (Methane, Ethane, and CO ₂) II	207

T7 - Topical 7: 25 th Topical on Refinery Processing			
Day	Time	Session Title	Room
Tuesday, March 26	8:00 AM	Process Control and Optimization Developments*	206
Tuesday, March 26	8:00 AM	Renewable Fuels	202
Tuesday, March 26	10:15 AM	Process Control and Optimization Developments II*	206
Tuesday, March 26	10:15 AM	Renewable Fuels II	202
Tuesday, March 26	1:30 PM	Meeting Net Zero Targets: Developments in Sustainability & Emission Reduction	202
Tuesday, March 26	3:30 PM	Refinery - Petrochemical Integration*	206
Tuesday, March 26	3:30 PM	Industrial Wastewater Management and Water Reuse	202



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2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

T7 - Topical 7: 25th Topical on Refinery Processing

Day	Time	Session Title	Room
Wednesday, March 27	8:00 AM	Plant Simulation and Design	202
Wednesday, March 27	10:15 AM	Plant Simulation and Design II	202
Wednesday, March 27	1:30 PM	Digitization and Controls	202

T7 - Topical 7: 25th Topical on Refinery Processing

Day	Time	Session Title	Room
Wednesday, March 27	3:30 PM	Refinery Profitability, Flexibility, and Optimization	202

T8 - Topical 8: Distillation Symposium

Day	Time	Session Title	Room
Monday, March 25	9:30 AM	Distillation Topical 2024: Tray Technology - New Developments	228-230
Monday, March 25	1:30 PM	Distillation and Absorption Processes Fundamentals, Developments, and Applications I	228-230
Monday, March 25	3:30 PM	Distillation and Absorption Processes Fundamentals, Developments, and Applications II	228-230
Tuesday, March 26	8:00 AM	Distillation and Absorption Processes Fundamentals, Developments, and Applications III	228-230
Tuesday, March 26	10:30 AM	Distillation Topical 2024: Distillation Energy Saving, Process Innovations, and Process Intensification I	228-230
Tuesday, March 26	1:30 PM	Distillation Topical 2024: Distillation Energy Saving, Process Innovations, and Process Intensification II	228-230
Tuesday, March 26	3:30 PM	Distillation Topical 2024: Packing Technology - New Developments	228-230
Wednesday, March 27	8:00 AM	Distillation Topical 2024: Distillation Energy Saving, Process Innovations, and Process Intensification III	228-230
Wednesday, March 27	10:30 AM	Distillation Topical 2024: Distillation Troubleshooting	228-230
Wednesday, March 27	1:30 PM	Distillation Topical 2024: Distillation Troubleshooting II	228-230



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2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

TB - Topical B: Leadership Development – Professional Skills to Catalyze your Career			
Day	Time	Session Title	Room
Tuesday, March 26	8:00 AM	Women in Chemical Engineering (WIC) Networking Breakfast & Keynote (Ticketed Event)	224
Tuesday, March 26	10:15 AM	WIC Panel	224

TD - Industry 4.0 Topical Conference			
Day	Time	Session Title	Room
Monday, March 25	9:30 AM	Industry 4.0 in Ethylene Production*	R08-R09
Monday, March 25	9:30 AM	Industry 4.0 / Fuels and Petrochemicals Division Joint Plenary	208-209
Monday, March 25	1:30 PM	Analytics & AI Plenary	214
Monday, March 25	3:30 PM	Panel discussion: NLP and LLM in the Chemical Industry	214
Monday, March 25	5:00 PM	Poster Session: Industry 4.0/Analytics & AI	Hall B-1
Tuesday, March 26	5:00 PM	Industry 4.0 Planning Meeting *	211
Wednesday, March 27	10:15 AM	Digital Transformation, AI and IoT Technology Applications to Heat Exchangers*	205
Wednesday, March 27	1:30 PM	Digitization and Controls*	202

TDA - 10th Analytics and Artificial Intelligence			
Day	Time	Session Title	Room
Monday, March 25	3:30 PM	Analytics and Fundamental Modeling	212-213
Tuesday, March 26	10:15 AM	Data Analytics and Smart Manufacturing	214
Tuesday, March 26	10:15 AM	Natural Language Processing Development and Applications	212-213
Tuesday, March 26	1:30 PM	Data-Driven and Hybrid Approaches to Development of New Products I	212-213
Tuesday, March 26	3:30 PM	Analytics & AI - Industry Perspective	211
Tuesday, March 26	3:30 PM	Data-Driven and Hybrid Approaches to Development of New Products II	212-213



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2024 SPRING MEETING & 20TH GCPS

TECHNICAL PROGRAM GRID

TDA - 10th Analytics and Artificial Intelligence			
Day	Time	Session Title	Room
Wednesday, March 27	8:00 AM	Invited Tutorial Session - Approaches in Data Analytics I	212-213
Wednesday, March 27	10:15 AM	Optimization and Machine Learning in Chemical Manufacturing	212-213
Wednesday, March 27	1:30 PM	Emerging Technologies in Data Analytics	212-213
Wednesday, March 27	1:30 PM	Invited Tutorial Session - Approaches in Data Analytics II	211
Wednesday, March 27	3:30 PM	Data Analytics and Statistics	231-232
Wednesday, March 27	3:30 PM	Vendors' Perspective (Session Speakers Invited)	212-213

TDB - 5th Enabling Industry Technologies Topical			
Day	Time	Session Title	Room
Tuesday, March 26	8:00 AM	Cybersecurity in the Chemical Industry	214
Tuesday, March 26	8:00 AM	Industry 4.0 - Sensors and Analyzers for Online Measurements	212-213
Tuesday, March 26	1:30 PM	Digital Transformation in Industry 4.0 I	214
Tuesday, March 26	3:30 PM	Digital Transformation in Industry 4.0 II	214
Wednesday, March 27	8:00 AM	Digital Twins, Augmented Reality, and Advanced Simulation I	214
Wednesday, March 27	10:15 AM	Digital Twins, Augmented Reality, and Advanced Simulation II	214
Wednesday, March 27	1:30 PM	Robotics, Cyberphysical, and Autonomous Systems	214



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SPRING25 +21ST GCPS

A Joint AIChE and CCPS Meeting

*See You
Next Year!*



April 6 - 10, 2025
Hilton Anatole, Dallas, TX