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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.



Download the App

Everything you need to know about the 2022 AIChE Spring Meeting and 18th 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 14, 2022. 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.

Neither the American Institute of Chemical Engineers (AIChE), the presenters and author(s) of this work, their employer, nor their employer's officers and directors, warrant or represent expressly or by implication, the correctness or accuracy of the content of the information presented. As between (1) the AIChE, the presenter and author(s) of this work, their employers, and their employers' officers and directors, and (2) the user/viewer of this work, the user/viewer accepts any legal liability or responsibility whatsoever for the consequence of its use or misuse.

WELCOME FROM THE PRESIDENT



Dear Colleagues:

It is a pleasure to welcome the chemical engineering community to San Antonio and the 2022 AIChE Spring Meeting and 18th Global Congress on Process Safety (GCPS) — our first in-person Spring Meeting and GCPS since 2019.

As people and organizations everywhere take cautious next-steps in emerging from the pandemic, you'll find that AIChE hasn't missed a step in programming this meeting — which showcases the vital work being performed in our profession. This conference presents the best of chemical engineering — with expertise shared by practitioners, thought-leaders, and innovators from across continents.

Our Spring Meeting theme — Transformation Beyond 2050: Sustainability and the Chemical Plant of the Future —underscores many of the meeting's topical conferences and featured events. For example, on Monday morning, **Lori Ryerkerk** (Celanese) sets the stage for our conference with her AIChE Government and Industry Leaders (AGILE) Award keynote on how digitization and sustainability will shape tomorrow's chemical plants.

The Spring Meeting continues its examination of chemical engineering's role in advanced manufacturing, incorporating approaches from process intensification and Industry 4.0. New topical conferences chart progress in industrial wastewater management, as well as new heat exchanger technologies. Additional conferences include the 34th Ethylene Producers' Conference, as well as tracks devoted to refinery processing, gas utilization, clean energy, hydrogen safety, waste plastics, upstream engineering and flow assurance, and workforce equity.

The programming of the Fuels and Petrochemicals Division begins with a plenary co-hosted with the Industry 4.0 Topical Conference, including a presentation by **Brian Roth** (McKinsey and Co.) who will detail the role of artificial intelligence in decarbonization. Later, the Gas Utilization conference welcomes **Henrik Rasmussen** (Haldor Topsoe), who will discuss trends in green and blue hydrogen, ammonia, and methanol for the energy transition.

Safety is brought into focus at our Global Congress on Process Safety (GCPS). Organized by AIChE's Center for Chemical Process Safety (CCPS) and the Safety and Health Division, the GCPS kicks off with a plenary and keynote by **Robert Johnston** (ExxonMobil) on the importance of sharing knowledge gained after incident investigations. In addition to the CCPS International Conference and tracks on loss prevention, plant safety, and process safety management mentoring, the GCPS programs also offers Perspectives on Process Safety from Around the Globe, and concludes with our process safety Case Studies and Lessons Learned sessions.

Meeting-bundle registrants will find a reserved seat at our daily luncheons — where guest speakers will explore some of the conference's overriding themes. Monday's luncheon welcomes **Bhima Sastri** (U.S. DOE), who will delve into the role of carbon capture in meeting net-zero carbon goals. Tuesday's speaker is **Erika Peterman** (BASF), who will discuss the importance of building a process safety culture "beyond the metrics." Then, on Wednesday, **Gavin Towler** (Honeywell) offers reflections on the energy transition.

These are just a few highlights. With so many opportunities available, be sure to download the AIChEvents app, which allows you to maintain a personal schedule and receive program updates on your mobile device. When you do, be sure to schedule time each day to networking with colleagues — and create new connections — at our receptions, poster sessions, and in exhibit area.

Naturally, with the ongoing COVID-19 situation, AIChE is working with our meeting venues to promote a safe environment. Please review the COVID-19 information on the meeting website's FAQ — as well as directives posted in the registration area.

The AIChE Board extends its grateful appreciation to the Spring Meeting Program Chairs — **Ivan Castillo** of Dow and **Cristina Thomas** of 3M — and to the GCPS Chair, **Jérôme Taveau** of Jensen Hughes. The Institute also thanks the meeting's many sponsor organizations and exhibitors for enhancing our events.

Finally, we gratefully acknowledge the contributions of our session chairs, presenters, authors, and volunteers for their generous collaboration and dedication to AIChE and its objectives — year after year.

To all of our attendees — Have a wonderful time at the meeting, and thank you for being a part of it.

Best wishes,

A handwritten signature in black ink that reads "Christine S. Grant". The signature is fluid and cursive.

Christine S. Grant

2022 AIChE President

2022 SPRING MEETING & 18TH GCPS LEADERSHIP, POLICIES AND NOTICES

2022 SPRING MEETING & 18TH GCPS MEETING LEADERSHIP



Ivan Castillo
Spring Meeting Program Chair
Senior Technology Manager –
Chemometrics and AI Group
Dow Chemical



Cristina U. Thomas, PhD
**Spring Meeting Program
Co-Chair**
Global R&D Services Director/
R&D GPO, 3M



Jérôme Taveau
GCPS Chair
Senior Consultant
Jensen Hughes



John Champion
GCPS Vice-Chair
EH&S Improvement Leader
Dow Chemical

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](#)

2022 SPRING MEETING & 18TH GCPS ORGANIZING COMMITTEE

AICHE Spring Meeting Program Chairs

Ivan Castillo, Dow Inc., *Chair*
Cristina Thomas, 3M, *Co-Chair*

Management Division

Mark Swientoniewski, Strata G
Donna Bryant, Syngenta
Joe Cramer, AIChE
Cristina Thomas, 3M

Environmental Division

Richard Siegel, R&B Consulting Services
Gerardo Ruiz-Mercado, U.S. Environmental Protection Agency
Jason Trembly, Ohio University

Computing and Systems Technology Division

Alexander Mitsos, RWTH Aachen University

Process Development Division

Juben Chheda, Shell Projects & Technology

Fuels and Petrochemicals Division

Virginia Sommer, Fluor
Christopher S. Buehler, Exponent Inc.
Frank Del Nogal, BP America

Young Professionals Committee

Victoria Muir, University of Pennsylvania

Chemical Engineering & the Law Forum

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

Topical B: Leadership Development - Professional Skills to Catalyze Your Career

Lori McDowell, Matheson

Topical C: Process Intensification

Ignasi Paula-Riveria, RAPID

Topical D: Industry 4.0 Topical Conference

Ivan Castillo, Dow Inc.

Topical 4: The 32nd Ethylene Producers' Conference

Jake Berret, Nova Chem
Mark Schmidt, Dow
Walter Postula, Shell Global Solutions
Micheal Smith, ExxonMobil
Mark Whitney, Linde

Topical 5: Emerging Technologies in Clean Energy

Gus K. Georgeton, LyondellBasell

Topical 6: 20th Topical Conference on Gas Utilization

Virginia Sommer, Fluor
Belma Demirel, BP America
Frank Del Nogal, BP America

Topical 7: 23rd Topical Conference on Refinery Processing

Virginia Sommer, Fluor
Francesco Coletti, Hexxcell Ltd
Ellen Arnold, Honeywell UOP
Frank Del Nogal, BP America

Topical 8: Distillation Symposium

Tony Cai, Fractionation Research Inc.
Anand Vennavelli, Koch-Glitsch LP
Gregory Cantley, Marathon Petroleum Company LP

Topical 11: Heat Exchangers

Francesco Coletti, Hexxcell Ltd
Nicholas Urbanski, ExxonMobil
Virginia Sommer, Fluor

Topical 12: Hydrogen Safety

Nick Barilo, AIChE
Paul Alderson, AIChE

Industrial Wastewater Management and Water Reuse

Somnath Basu, Headworks International
Andrew Shaw, Black & Veatch Corporation

Global Congress on Process Safety

J r me Taveau, Jensen Hughes, *Chair*
John Champion, The Dow Chemical Company, *Vice Chair*

Center for Chemical Process Safety International Conference

Sean Dee, Exponent Inc., *CCPS Chair*
James Martin, Corteva, *CCPS Vice Chair*

Process Plant Safety Symposium

Nicole Loontjens, Americas Styrenics LLC, *PPSS Chair*
Katherine Prem, LyondellBasell, *PPSS Vice Chair*

Annual Loss Prevention Symposium

Henry Dwight, BP, *LPS Chair*
Irfan Shaikh, Chevron, *LPS Vice Chair*

Process Safety Management Mentoring Forum

Katie Mulligan, PSMM Chair, *Dow*
Jennifer Mize, Eastman Chemical Company, *PSMM Vice Chair*



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SPONSORS 2022 AIChE SPRING MEETING & 18TH GLOBAL CONGRESS ON PROCESS SAFETY

DIAMOND



PLATINUM



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Sponsors as of March 21, 2022

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, APRIL 11



ENHANCE RELIABILITY OF REFINERY OPERATIONS WITH ELECTROLYTE BASED PROCESS SIMULATION SOLUTIONS

1:30 PM - 3:00 PM | Henry B. González Convention Center - 208

Presenter: Ezequiel Vicent

Learn how electrolyte and water chemistry-based reactions and phenomena like corrosion due to phase changes and impurities can significantly impact refinery asset reliability. Electrolyte based process simulation can be used to gain rich insights to create integrity operating windows that can maximize asset performance and mitigate corrosion risk.



REACH YOUR SUSTAINABILITY TARGETS WITH NEW LEVELS OF EFFICIENCY AND INNOVATION

3:30 PM - 5:00 PM | Henry B. González Convention Center - 208

Presenters: Pratik Krishnan, Owen Oesterling

In this workshop, you will learn about AspenTech innovations and how AspenTech University will enable you to maximize business performance and meeting sustainability goals.

TUESDAY, APRIL 12



P&ID'S AND INFORMATION MANAGEMENT - HOW THEY CAN PLAY TOGETHER

8:00 AM - 9:30 AM | Henry B. González Convention Center - 006D

Presenter: Stephen Nelson

We can show you how to use a simple P&ID to solve your information gaps and create a successful information management retrieval superhighway by using modern technology.



STREAMLINE YOUR CHEMICAL MANAGEMENT PROCESSES

10:15 AM - 11:45 AM | Henry B. González Convention Center - 006D

Presenters: Doug Martin, Chris Pansing

Join our workshop to learn how digital solutions can help site and business leaders organize, document, and manage chemical inventories, ensure proper reviews as part of new chemical approval requests, facilitate new supplier/product introduction, and standardize the management of change procedures in alignment with Process Safety Management regulatory standards and industry best practices.



This program is as of March 14, 2022. 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.

TUESDAY, APRIL 12



THERMOPLASTIC DESIGN CONSIDERATIONS; CHOOSING THE IDEAL MATERIAL FOR A CPI PIPING SYSTEM

10:15 AM - 11:45 AM | Henry B. González Convention Center - 208

Presenter: Stephanie Heffernan

This session will explore different thermoplastic piping system materials for use in CPI Applications. Attendees will learn about relevant material properties and design considerations for selecting a thermoplastic piping system and discuss common applications where thermoplastics can be a cost effective and user friendly solution.



CAN DIGITAL TWINS SOLVE OUR INDUSTRY'S WORKFORCE CHALLENGES?

1:30 PM - 3:00 PM | Henry B. González Convention Center - 208

Presenters: Clint Jeffus, Francis Montemurro

We will look at how Digital Twins can solve the challenges of the workforce and close this gap. Successful Digital Twins must capture tribal (people) knowledge and include the use of (procedure) simulators with data on competency. The ability to educate and test operators on equipment specific procedures provides valuable data on how reliable those operators are. You can measure your people's availability, reliability and productivity.



DYNAMIC BARRIER MANAGEMENT: INTEGRATING PSM INTO OPERATIONAL RISK MANAGEMENT

3:30 PM - 5:00 PM | Henry B. González Convention Center - 006D

Presenter: Alwin Van Aggelen

In the workshop it will be demonstrated how Process Safety Management can be seamlessly integrated with Operational Risk Management.



FAST TRACK COMPUTATIONAL CHEMISTRY WITH TURN-KEY HPC IN THE CLOUD

3:30 PM - 5:00 PM | Henry B. González Convention Center - 208

Presenter: Nithin Jacob

Computational simulation continues to play an increasingly critical role in the understanding and development of products and processes within the life sciences and energy sectors. Huge strides and advancements in high performance computing (HPC) in the cloud has unlocked acceleration opportunities for computational fluid dynamics, computational chemistry and molecular dynamic simulations to discover new drugs, materials. In this workshop, we'll provide a demo walkthrough of running computational chemistry codes such as GROMACS, LAMMPS on the Rescale Platform.

WEDNESDAY, APRIL 13



RENEWABLE ENERGY: INTEGRATING PROCESS SAFETY, ASSET INTEGRITY, AND RISK MANAGEMENT

10:15 AM - 11:45 AM | Henry B. González Convention Center - 006D

Presenters: Nancy Faulk, Camila Costa da Fonseca, Payam Jamshidi, Christopher Ng

This interactive workshop provides an overview of key renewable technologies and uses case studies to illustrate how this new energy landscape affects process safety, asset integrity, and risk management.

ONSITE INFORMATION

Onsite Registration Hours

Henry B. Gonzalez Convention Center, Hall 4B

Sunday, April 10	12:00 PM – 7:30 PM
Monday, April 11	7:00 AM – 5:30 PM
Tuesday, April 12	7:30 AM – 5:30 PM
Wednesday, April 13	7:30 AM – 5:00 PM

Remote registration is also available at the Hyatt Regency on Sunday and Monday.

2022 AIChE Spring Meeting and 18th GCPS Exhibit Hours

Henry B. Gonzalez Convention Center, Hall 4B

Sunday, April 10	6:00 PM – 7:30 PM
Open during Conference Opening Reception	
Monday, April 11	9:00 AM – 7:00 PM
Poster Reception from 5:00 PM – 7:00 PM	
Tuesday, April 12	9:00 AM – 6:30 PM
Happy Hour from 5:15 PM – 6:30 PM	
Wednesday, April 13	9:00 AM – 11:00 AM

2022 AIChE Spring Meeting and 18th GCPS

Speaker Ready Room

Henry B. Gonzalez Convention Center, Hall 4 West Registration

Sunday, April 10	12:00 PM – 7:30 PM
Monday, April 11	7:00 AM – 6:00 PM
Tuesday, April 12	7:30 AM – 6:00 PM
Wednesday, April 13	7:30 AM – 5:00 PM



Wireless Internet

We are pleased to offer wireless internet to Meeting attendees.

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Mobile App

Download the free mobile app to maximize your Spring Meeting & 18th GCPS experience. Visit the App Store or Google Play and search for "AIChE Events".



Lost and Found

For questions and help with Lost and Found, please go to the registration desk located at the Henry B. Gonzalez Convention Center, Hall 4B



WIC Family Accommodations Room/Mothers' Room

The Hyatt Regency & Henry B. Gonzalez Convention Center AIChE have arranged for a mothers' room onsite which will be available for the duration of the Meeting. The room will have a refrigerator and furniture.



Shipping & Printing at the Hilton Americas & Henry B. Gonzalez Convention Center

UPS: 900 E Market St
Ste 101
San Antonio, TX 78205

Grand Hyatt:
FedEx
600 E Market St
San Antonio, Texas 78205



Recording & Photography Policy

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The Spring Meeting Scavenger Hunt Is On!

Collect and find codes throughout the conference to earn points and climb the leaderboard. Be one of the 5 lucky winners of a fantastic prize! Details can be found at aiche.org/hunt. Winners will be announced at the Wednesday morning Coffee Break, April 13, between 9:30 AM -10:15 AM.

ONSITE INFORMATION

COFFEE BREAKS & REFRESHMENTS




Monday, April 11	9:00 AM – 9:30 AM & 3:00 PM – 3:30 PM
Tuesday, April 12	9:30 AM – 10:15 AM & 3:00 PM – 3:30 PM
Wednesday, April 13	9:30 AM – 10:15 AM

Henry B. Gonzalez Convention Center,
Exhibit Hall 4B



AGILE Keynote Continental Breakfast


Monday April 11 • 7:00 AM – 8:00 AM
Henry B Gonzalez Convention Center,
Lila Cockrell Theatre Foyer
Sponsored by  **Celanese**
The chemistry inside innovation™

RECEPTIONS



AICHE Spring Meeting & GCPS

Opening Reception

Sunday, April 10 • 6:00 PM – 7:30 PM
Henry B. Gonzalez Convention Center,
Exhibit Hall 4B
Sponsored by  **IPEX**
by allaxis



Poster Sessions

Monday, April 11 • 5:00 PM – 7:00 PM
Henry B. Gonzalez Convention Center,
Exhibit Hall 4B



Happy Hour

Tuesday, April 12 • 5:15 PM – 6:30 PM
Henry B. Gonzalez Convention Center,
Exhibit Hall 4B

PROFESSIONAL HEADSHOTS & GIVEAWAYS



AICHE & Exhibitor Giveaways

Enter and win! Entry tickets can be picked up from exhibitor booths on Monday – Tuesday. Follow #AICHEGiveaways for updates. Henry B. Gonzalez Convention Center, Exhibit Hall 4B



Professional Headshot Photos

Monday, April 11	9:00 AM – 7:00 PM
Tuesday, April 12	9:00 AM – 6:30 PM

Henry B. Gonzalez Convention Center,
Exhibit Hall 4B

New for this year: update your LinkedIn profile picture or resume photo with a complimentary headshot photograph.



VENUE FLOOR PLANS

HENRY B. GONZÁLEZ CONVENTION CENTER LEVELS

BALLROOM



MEETING LEVEL

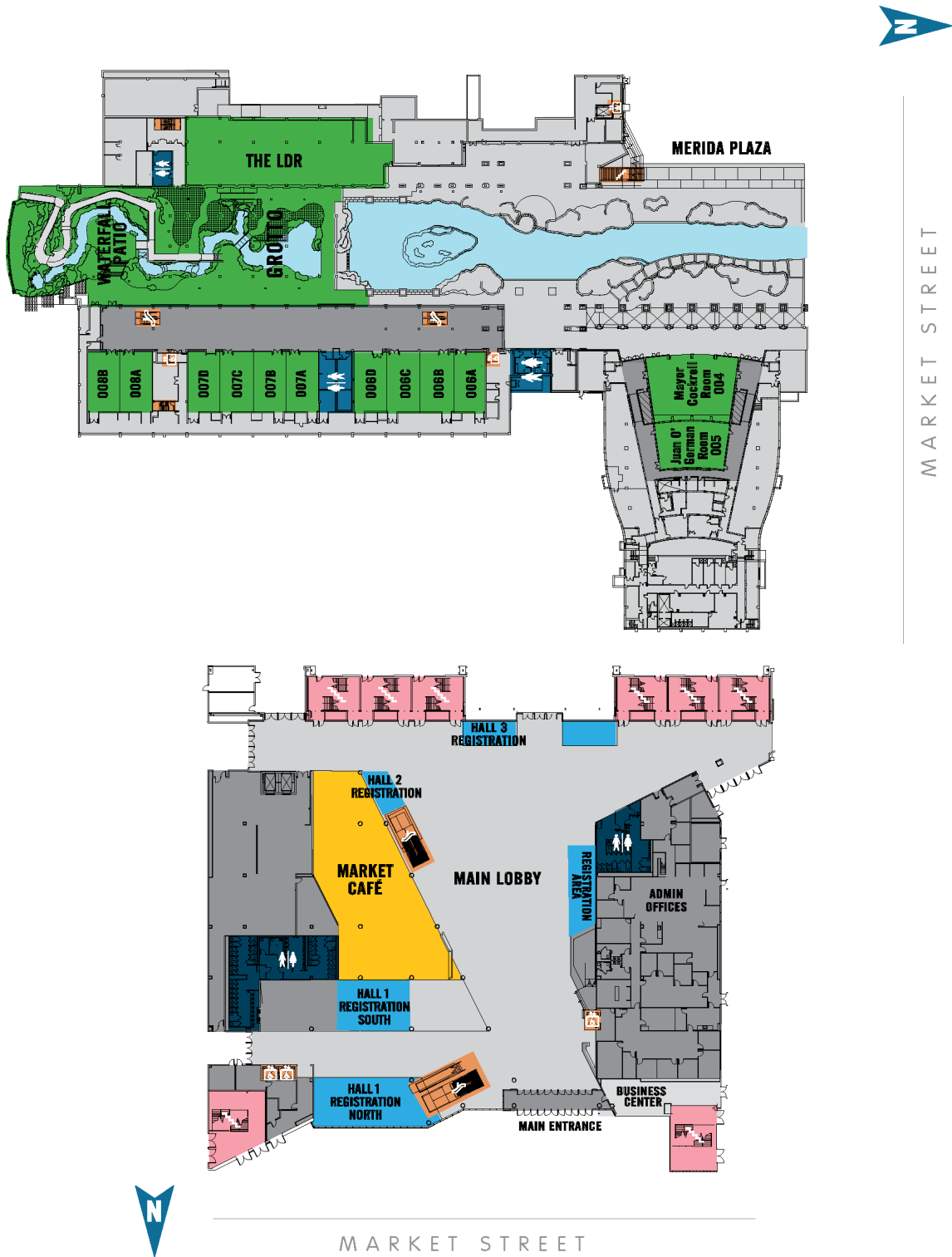




VENUE FLOOR PLANS

HENRY B. GONZÁLEZ CONVENTION CENTER LEVELS

RIVER LEVEL

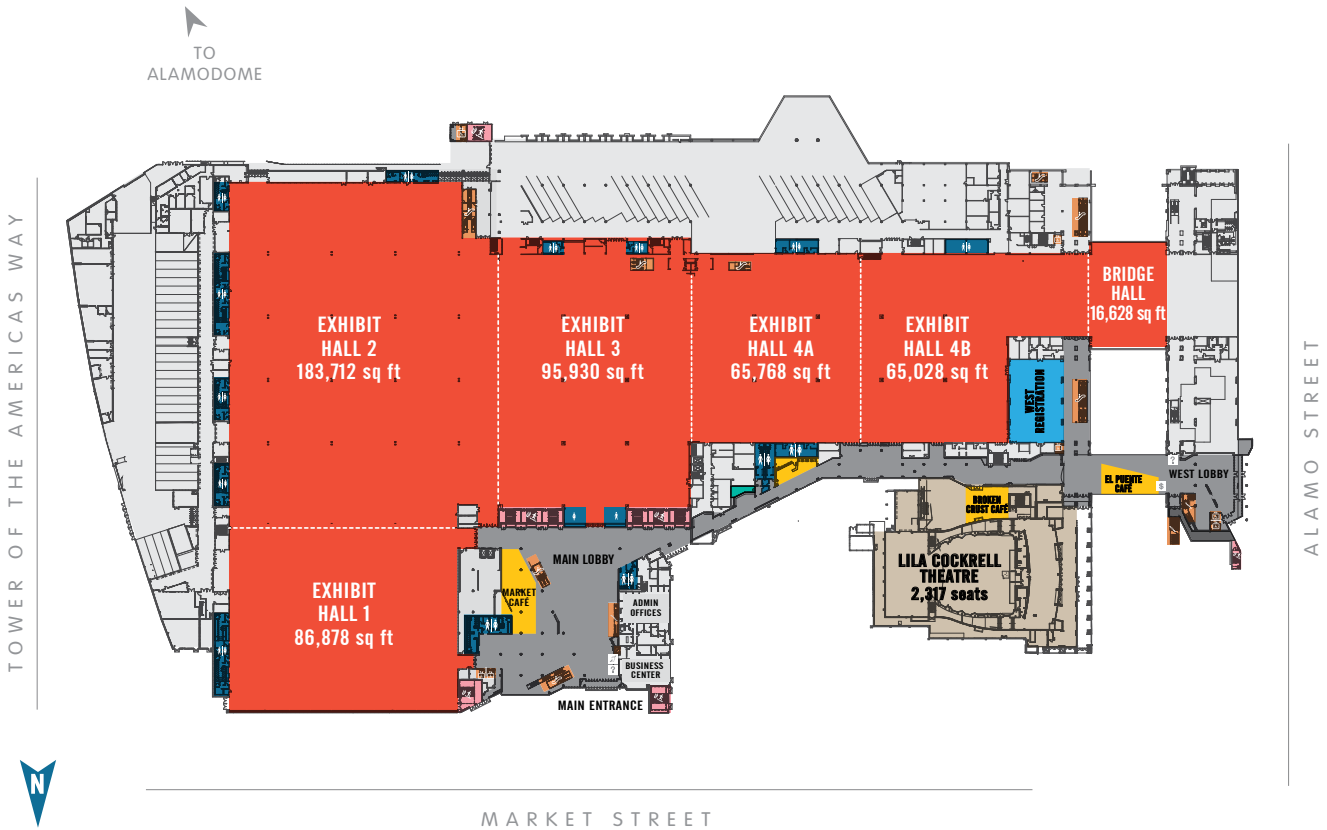




VENUE FLOOR PLANS

HENRY B. GONZÁLEZ CONVENTION CENTER LEVELS

STREET LEVEL

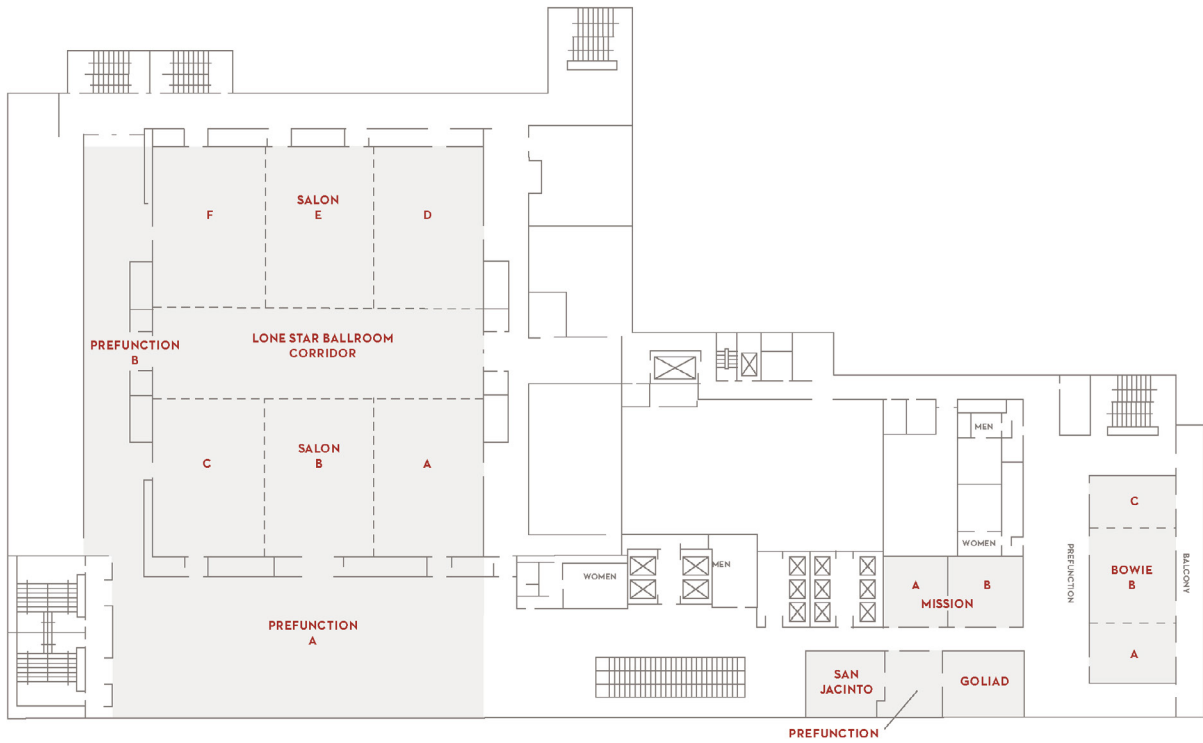




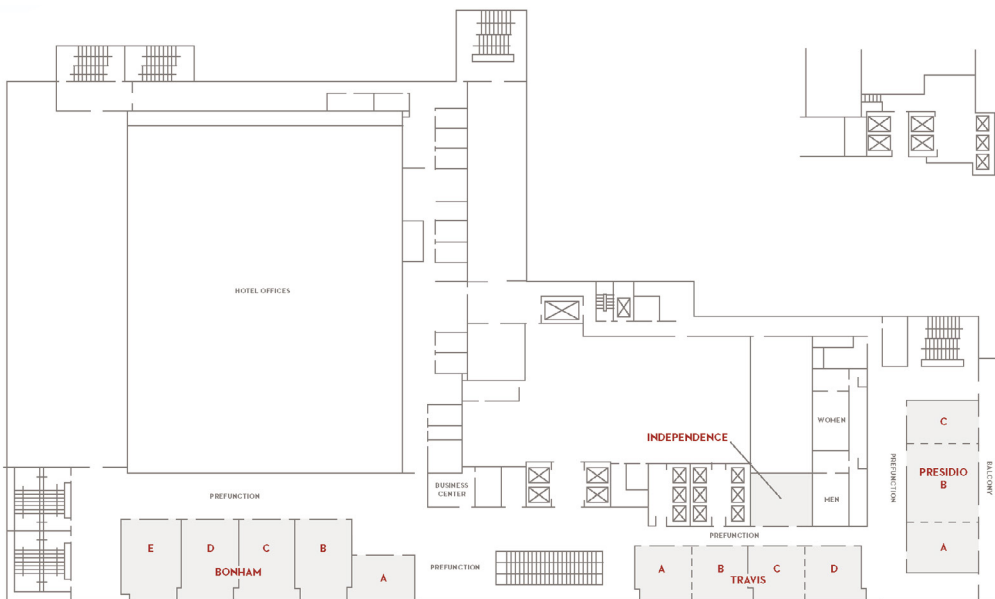
VENUE FLOOR PLANS

GRAND HYATT LEVELS

SECOND FLOOR



THIRD FLOOR

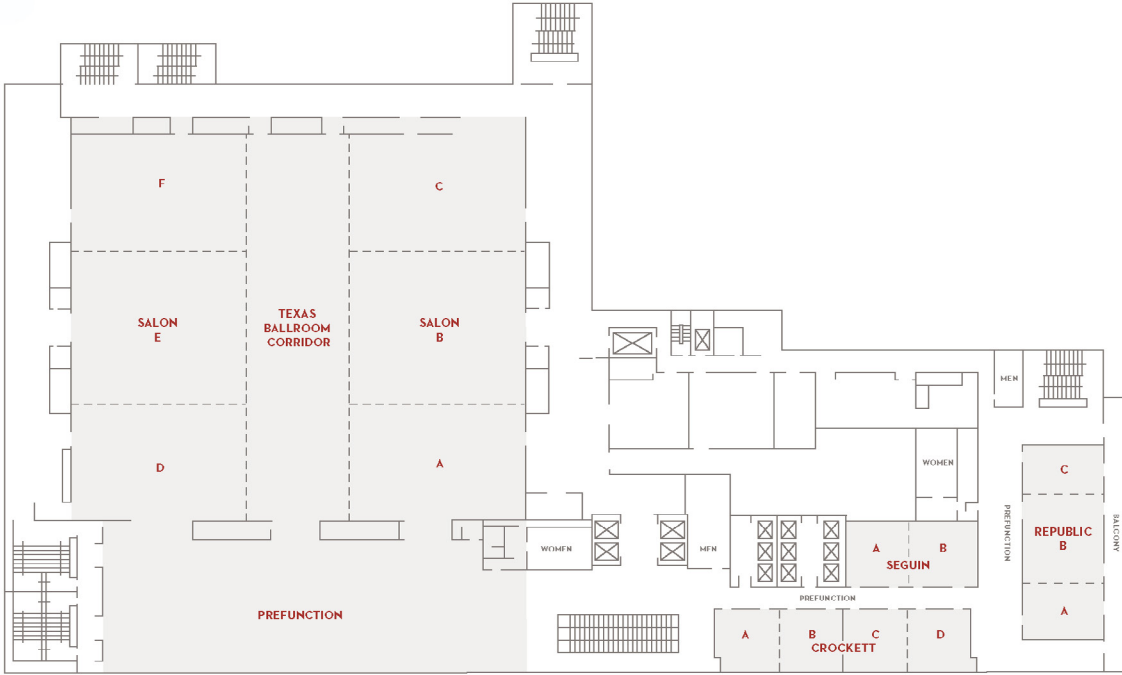




VENUE FLOOR PLANS

GRAND HYATT LEVELS

FOURTH FLOOR

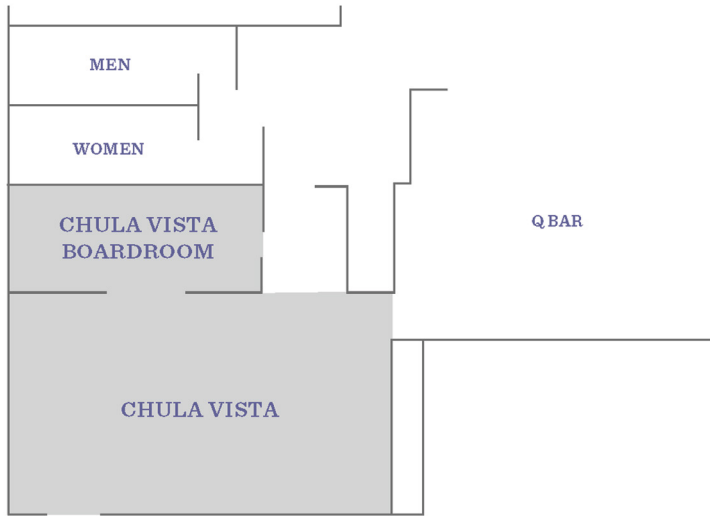




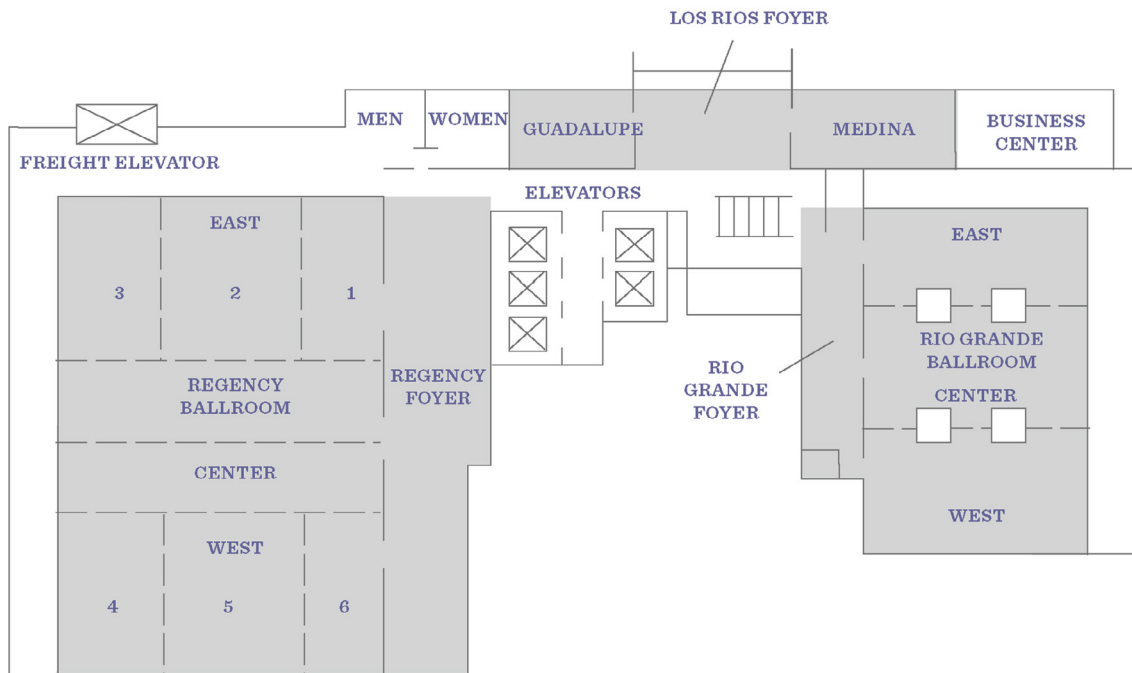
VENUE FLOOR PLANS

HYATT REGENCY SAN ANTONIO RIVERWALK LEVELS

LOBBY LEVEL



BALLROOM LEVEL

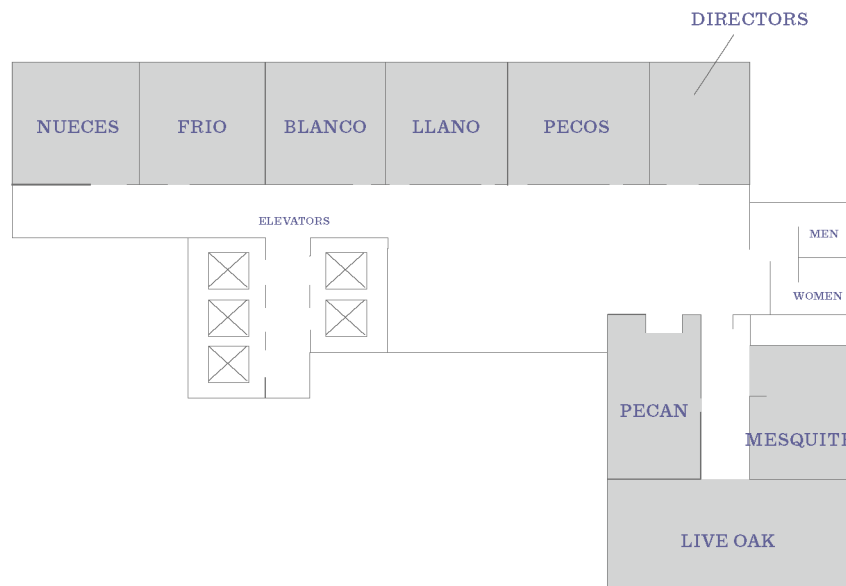




VENUE FLOOR PLANS

HYATT REGENCY SAN ANTONIO RIVERWALK LEVELS

HILL COUNTRY LEVEL



2022 SPRING MEETING & 18TH GCPS PROGRAM GRID KEY

The full technical program of the 2022 Spring Meeting & 18th 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 2022 Spring Meeting & 18th GCPS.

02 Separations Division

02A - Distillation and Absorption

05 Management Division

05A - Professional Development and Licensing

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

TC Process Intensification

TD Industry 4.0 Topical Conference

TDA - 8th Analytics and Artificial Intelligence

TDB - 3rd Enabling Industry Technologies Topical

T1 Global Congress on Process Safety

T1A - 24th Process Plant Safety Symposium (PPSS)

T1B - 37th Center for Chemical Process Safety (CCPS) International Conference

T1C - 56th Annual Loss Prevention Symposium (LPS)

T1D - 11th Process Safety Management Mentoring (PSMM) Forum

T1E - Perspectives on Process Safety from Around the World

T4 The 34th Ethylene Producers Conference

T5 Topical 5: Emerging Technologies in Clean Energy

T6 Topical 6: 22nd Topical Conference on Gas Utilization

T7 Topical 7: 25th Topical on Refinery Processing

T8 Topical 8: Distillation Symposium

T11 2nd Topical Conference on Heat Exchangers

T12 Hydrogen Safety

T14 Industrial Wastewater Management and Water Reuse Topical Conference



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

2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

Property Key

Hyatt Regency = Hyatt Regency San Antonio Riverwalk

HBG Conv. Ctr. = Henry B. Gonzalez Convention Center

02A - Distillation and Absorption					
Day	Time	Session #	Session Title	Property	Room
Tuesday, April 12	8:00 AM	81	Separations Process Fundamentals	HBG Conv. Ctr.	210AB

05 - Management Division					
Day	Time	Session #	Session Title	Property	Room
Monday, April 11	1:30 PM	25	Leadership Lessons Learned: 13 years running a professional institute	HBG Conv. Ctr.	006D
Monday, April 11	3:30 PM	47	Role of Leadership in Evolving Organizational Culture	HBG Conv. Ctr.	006D
Tuesday, April 12	1:30 PM	116	Young Leader Award Recipient Presentation: Actively Managing Yourself to Manage Your Career	HBG Conv. Ctr.	006D

09 - Environmental Division					
Day	Time	Session #	Session Title	Property	Room
Tuesday, April 12	8:00 AM	63	Carbon Management and Sustainability I	HBG Conv. Ctr.	206B
Tuesday, April 12	10:15 AM	84	Carbon Management and Sustainability II	HBG Conv. Ctr.	206B
Tuesday, April 12	1:30 PM	105	Environmental Issues and Controls in Select Industrial Sectors I	HBG Conv. Ctr.	206B
Tuesday, April 12	3:30 PM	124	Environmental Issues and Controls in Select Industrial Sectors II	HBG Conv. Ctr.	206B
Wednesday, April 13	8:00 AM	147	Plastic Waste Management and Circular Economy I	HBG Conv. Ctr.	206B
Wednesday, April 13	10:15 AM	170	Plastic Waste Management and Circular Economy II	HBG Conv. Ctr.	206B
Wednesday, April 13	1:30 PM	180	Plastic Waste Management and Circular Economy III	HBG Conv. Ctr.	206B



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

This program is as of March 14, 2022. An up-to-date program is available at aiche.org/spring and in the AICHEvents app.

2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

10 - Computing Systems and Technology Division

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	3:30 PM	34	Computers in Operations: Process Safety and Control II	HBG Conv. Ctr.	211
Tuesday, April 12	8:00 AM	73	Process Modeling and Simulation I	HBG Conv. Ctr.	211
Tuesday, April 12	10:15 AM	92	Process Modeling and Simulation II	HBG Conv. Ctr.	211
Tuesday, April 12	1:30 PM	111	Process Modeling and Simulation III	HBG Conv. Ctr.	211
Tuesday, April 12	3:30 PM	119	10000 Process Modeling and Simulation IV	HBG Conv. Ctr.	211
Wednesday, April 13	8:00 AM	136	Decision-Making for Industrial Process Systems	HBG Conv. Ctr.	211

12 - Process Development Division

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	5:00 PM	59	Poster Session: Process Development Division	HBG Conv. Ctr.	Exhibit Hall 4B

12A - Process Research and Innovation

Day	Time	Session #	Session Title	Property	Room
Tuesday, April 12	8:00 AM	71	Modeling Tools and Techniques for Process R&D	HBG Conv. Ctr.	207A
Tuesday, April 12	10:15 AM	82	Advances in Process Design and Development	HBG Conv. Ctr.	207A
Tuesday, April 12	1:30 PM	99	Advanced Carbon Reduction Technologies	HBG Conv. Ctr.	207A

12B - Pilot Plant

Day	Time	Session #	Session Title	Property	Room
Tuesday, April 12	3:30 PM	129	Pilot Plant and Laboratory Safety	HBG Conv. Ctr.	207A
Wednesday, April 13	8:00 AM	146	Pilot Plants for Process Scale-up I	HBG Conv. Ctr.	207A
Wednesday, April 13	10:15 AM	169	Pilot Plants for Process Scale-up II	HBG Conv. Ctr.	207A
Wednesday, April 13	1:30 PM	179	Pilot Plants for Process Scale-up III	HBG Conv. Ctr.	207A



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

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2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

12C - Tech Transfer and Manufacturing

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	1:30 PM	16	Cost-Effective Commercialization of New Processes or Products I	HBG Conv. Ctr.	207A
Monday, April 11	3:30 PM	35	Cost-Effective Commercialization of New Processes or Products II	HBG Conv. Ctr.	207A
Wednesday, April 13	3:30 PM	192	Overcoming Manufacturing Challenges in a Circular Economy	HBG Conv. Ctr.	207A

16 - Fuels and Petrochemicals Division

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	9:30 AM	2	F&PD: Industry 4.0 & Fuels and Petrochemicals Division Joint Plenary	HBG Conv. Ctr.	214CD
Monday, April 11	1:30 PM	26	Process Control and Optimization Developments I	HBG Conv. Ctr.	212AB
Monday, April 11	3:30 PM	46	Process Control and Optimization Developments II	HBG Conv. Ctr.	212AB
Monday, April 11	5:00 PM	55	Poster Session: Fuels and Petrochemicals Division	HBG Conv. Ctr.	Exhibit Hall 4B
Tuesday, April 12	10:15 AM	91	Panel Discussion: How Does the Oil and Gas Industry Adapt to Our Changing World	HBG Conv. Ctr.	214CD
Tuesday, April 12	1:30 PM	102	Developments in Bio and Renewable Petrochemicals	HBG Conv. Ctr.	212AB
Tuesday, April 12	3:30 PM	135	Sustainability Developments for Petrochemical Production	HBG Conv. Ctr.	212AB
Wednesday, April 13	8:00 AM	137	Electrifying Refining & Petrochemical Production	HBG Conv. Ctr.	214CD
Wednesday, April 13	10:15 AM	157	Advances in Catalysis	HBG Conv. Ctr.	214CD

18 - Liaison Functions

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	8:00 AM	1	2022 AIChE Spring Meeting and 18th GCPS AGILE Award Keynote Address	HBG Conv. Ctr.	Lila Cockrell Theatre
Monday, April 11	11:45 AM	13	2022 AIChE Spring Meeting & 18th GCPS Monday, April 11 Luncheon Keynote	HBG Conv. Ctr.	Stars at Night Ballroom B3-B4
Tuesday, April 12	12:00 PM	98	2022 AIChE Spring Meeting & 18th GCPS Tuesday, April 12 Luncheon Keynote	HBG Conv. Ctr.	Stars at Night Ballroom B3-B4
Wednesday, April 13	12:00 PM	173	2022 AIChE Spring Meeting & 18th GCPS Wednesday, April 13 Luncheon Keynote	HBG Conv. Ctr.	Stars at Night Ballroom B3-B4



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2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

24 - Chemical Engineering & the Law Forum					
Day	Time	Session #	Session Title	Property	Room
Monday, April 11	3:30 PM	42	Intellectual Property Law Panel	HBG Conv. Ctr.	206B

T1 - Global Congress on Process Safety					
Day	Time	Session #	Session Title	Property	Room
Monday, April 11	9:40 AM	7	GCPS Welcoming Plenary and Keynote	HBG Conv. Ctr.	Lila Cockrell Theatre
Monday, April 11	5:00 PM	52	GCPS - Process Safety Poster Session	HBG Conv. Ctr.	Exhibit Hall 4B
Monday, April 11	5:00 PM	53	GCPS Alternate Presentations & Posters	HBG Conv. Ctr.	Exhibit Hall 4B
Wednesday, April 13	1:30 PM	185	GCPS Joint Session: Case Histories and Lessons Learned	HBG Conv. Ctr.	Lila Cockrell Theatre

T1A - 24th Process Plant Safety Symposium (PPSS)					
Day	Time	Session #	Session Title	Property	Room
Monday, April 11	10:30 AM	8	Applying PSM in Non-Regulated Businesses	HBG Conv. Ctr.	008AB
Monday, April 11	1:30 PM	18	Cybersecurity and Process Safety	HBG Conv. Ctr.	008AB
Monday, April 11	3:30 PM	51	Yoda Panel	HBG Conv. Ctr.	008AB
Tuesday, April 12	8:00 AM	74	Process Safety and Environmental, Social, and Governance Criteria	HBG Conv. Ctr.	008AB
Tuesday, April 12	10:15 AM	93	Safeguard Verification	HBG Conv. Ctr.	008AB
Tuesday, April 12	1:30 PM	109	PHA Traps	HBG Conv. Ctr.	008AB
Tuesday, April 12	3:30 PM	127	Identifying Hazards for the Transient Operating State	HBG Conv. Ctr.	008AB
Wednesday, April 13	8:00 AM	142	Inherently Safer Design	HBG Conv. Ctr.	008AB
Wednesday, April 13	10:15 AM	166	Inconceivable! Technologies Improving Process Safety	HBG Conv. Ctr.	008AB



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2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

T1B - 37th Center for Chemical Process Safety (CCPS) International Conference

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	10:30 AM	9	Effective Process Safety Programs I	HBG Conv. Ctr.	006ABC
Monday, April 11	1:30 PM	20	Effective Process Safety Programs II	HBG Conv. Ctr.	006ABC
Monday, April 11	3:30 PM	45	Proactive Process Safety	HBG Conv. Ctr.	006ABC
Tuesday, April 12	8:00 AM	67	Featured CCPS Projects: Emerging Topics, Tools, and References	HBG Conv. Ctr.	006ABC
Tuesday, April 12	10:15 AM	88	Fostering Process Safety Culture and Compliance with Standards	HBG Conv. Ctr.	006ABC
Tuesday, April 12	1:30 PM	106	Leadership Forum: The Role of Training and Competency in Developing the Next Generation of Process Safety Leaders	HBG Conv. Ctr.	006ABC
Tuesday, April 12	3:30 PM	132	Putting Together the Puzzles of Hazard Identification and Risk Analysis	HBG Conv. Ctr.	006ABC
Wednesday, April 13	8:00 AM	151	The Many Hats of a Process Safety Professional – A Career Perspective	HBG Conv. Ctr.	006ABC
Wednesday, April 13	10:15 AM	164	Good, Better, Best: Administrative and Engineering Controls	HBG Conv. Ctr.	006ABC

T1C - 56th Annual Loss Prevention Symposium (LPS)

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	10:30 AM	10	Facility Siting, Consequence Analysis, and Risk Assessment I	HBG Conv. Ctr.	007BCD
Monday, April 11	1:30 PM	21	Facility Siting, Consequence Analysis, and Risk Assessment II	HBG Conv. Ctr.	007BCD
Monday, April 11	3:30 PM	33	Combustible Dust Hazards	HBG Conv. Ctr.	007BCD
Tuesday, April 12	8:00 AM	68	Fires, Explosions and Reactivity I	HBG Conv. Ctr.	007BCD
Tuesday, April 12	10:15 AM	87	Fires, Explosions and Reactivity II	HBG Conv. Ctr.	007BCD
Tuesday, April 12	1:30 PM	104	Engineered Safety Systems and Mitigation Technologies I	HBG Conv. Ctr.	007BCD
Tuesday, April 12	3:30 PM	123	Engineered Safety Systems and Mitigation Technologies II	HBG Conv. Ctr.	007BCD
Wednesday, April 13	8:00 AM	138	Emergency Planning and Response	HBG Conv. Ctr.	007BCD
Wednesday, April 13	10:15 AM	158	Alternative Energy Infrastructure Safety	HBG Conv. Ctr.	007BCD



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2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

T1D - 11th Process Safety Management Mentoring (PSMM) Forum

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	10:30 AM	12	Tutorials in Loss Prevention Symposium (LPS) I	HBG Conv. Ctr.	004
Monday, April 11	1:30 PM	29	What Should be Keeping You Up at Night But Isn't: Things Everyone Should Know about Process Safety	HBG Conv. Ctr.	004
Monday, April 11	3:30 PM	50	Tutorials in Process Plant Safety Symposium (PPSS)	HBG Conv. Ctr.	004
Tuesday, April 12	8:00 AM	64	Conduct of Operations	HBG Conv. Ctr.	004
Tuesday, April 12	10:15 AM	96	Tutorials in Center for Chemical Process Safety (CCPS) International Conference	HBG Conv. Ctr.	004
Tuesday, April 12	1:30 PM	115	Tutorials in Loss Prevention Symposium (LPS) II	HBG Conv. Ctr.	004
Tuesday, April 12	3:30 PM	131	PSM Story Time	HBG Conv. Ctr.	004
Wednesday, April 13	8:00 AM	153	What is Hiding Under the Radar?	HBG Conv. Ctr.	004
Wednesday, April 13	10:15 AM	172	The Day PSM Hit Home	HBG Conv. Ctr.	004

T1E - Perspectives on Process Safety from Around the Globe

Day	Time	Session #	Session Title	Property	Room
Monday April 11	10:30AM	11	Spanish Session: Análisis de riesgo y toma de decisiones	HBG Conv. Ctr.	005
Monday April 11	1:30PM	27	Spanish Session: Gestion del la seguridad de procesos con base en riesgo I	HBG Conv. Ctr.	005
Monday April 11	3:30 PM	48	Spanish Session: Gestion del la seguridad de procesos con base en riesgo II	HBG Conv. Ctr.	005
Tuesday, April 12	8:00 AM	75	Spanish Session: Sistemas instrumentados	HBG Conv. Ctr.	005
Tuesday, April 12	10:15 AM	94	Spanish Session: Análisis de consecuencias y planes de emergencia	HBG Conv. Ctr.	005
Tuesday, April 12	1:30 PM	110	Portuguese Session: Gestão da Segurança de Processos baseada em Risco I	HBG Conv. Ctr.	005
Tuesday, April 12	3:30 PM	130	Portuguese Session: Gestão da Segurança de Processos baseada em Risco II	HBG Conv. Ctr.	005



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2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

T4 - The 34th Ethylene Producers Conference

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	9:30 AM	5	Ethylene Plant Maintenance & Reliability	HBG Conv. Ctr.	Hemisfair Ballroom C3
Monday, April 11	9:30 AM	6	Ethylene Plant Rotating Equipment	HBG Conv. Ctr.	Hemisfair Ballroom C1
Monday, April 11	2:00 PM	31	Ethylene Plant Operations	HBG Conv. Ctr.	Hemisfair Ballroom C1
Monday, April 11	2:00 PM	32	Panel Session – Energy Transition & Decarboni-zation – “Big Picture View”	HBG Conv. Ctr.	Hemisfair Ballroom C3
Tuesday, April 12	8:00 AM	78	Decarbonization/Circular Economy	HBG Conv. Ctr.	Hemisfair Ballroom C3
Tuesday, April 12	8:00 AM	79	Ethylene Plant Feedstock Contaminants	HBG Conv. Ctr.	Hemisfair Ballroom C1
Tuesday, April 12	2:00 PM	118	Ethylene Plant Technology Fundamentals	HBG Conv. Ctr.	Hemisfair Ballroom C1
Wednesday, April 13	8:00 AM	154	Ethylene Plant General Environmental	HBG Conv. Ctr.	Hemisfair Ballroom C3
Wednesday, April 13	8:00 AM	155	Industry 4.0 in Ethylene Production	HBG Conv. Ctr.	Hemisfair Ballroom C1
Wednesday, April 13	2:00 PM	186	Ethylene Plant Safety	HBG Conv. Ctr.	Hemisfair Ballroom C1
Thursday, April 14	8:00 AM	194	Distillation Tutorial	HBG Conv. Ctr.	Hemisfair Ballroom C1

T5 - Topical 5: Emerging Technologies in Clean Energy

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	1:30 PM	17	CO ₂ Capture, Utilization, and Disposal: Key to Clean Energy Production I	HBG Conv. Ctr.	206A
Monday, April 11	3:30 PM	36	CO ₂ Capture, Utilization, and Disposal: Key to Clean Energy Production II	HBG Conv. Ctr.	206A
Monday, April 11	5:00 PM	54	Poster Session: Emerging Technologies in Clean Energy	HBG Conv. Ctr.	Exhibit Hall 4B
Tuesday, April 12	8:00 AM	62	Alternative Fuels Including Biofuels, Hydrogen, Re-newable Hydrogen, and Syngas I	HBG Conv. Ctr.	206A
Tuesday, April 12	10:15 AM	83	Alternative Fuels Including Biofuels, Hydrogen, Re-newable Hydrogen, and Syngas II	HBG Conv. Ctr.	206A
Tuesday, April 12	1:30 PM	100	Alternative Fuels Including Biofuels, Hydrogen, Re-newable Hydrogen, and Syngas III	HBG Conv. Ctr.	206A
Tuesday, April 12	3:30 PM	120	Alternative Fuels Including Biofuels, Hydrogen, Re-newable Hydrogen, and Syngas IV	HBG Conv. Ctr.	206A
Wednesday, April 13	8:00 AM	152	Trending Technologies for Clean and Efficient Energy	HBG Conv. Ctr.	206A



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2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

T6A - Topical 6: 22nd Topical Conference on Gas Utilization

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	1:30 PM	24	Keynote - Production of Synthesis Gas from Conventional and Unconventional Resources	HBG Conv. Ctr.	210AB
Monday, April 11	3:30 PM	39	Direct Conversion of Methane	HBG Conv. Ctr.	210AB
Tuesday, April 12	8:00 AM	70	Keynote - 22nd Topical Conference on Gas Utilization	HBG Conv. Ctr.	214CD
Tuesday, April 12	1:30 PM	107	LNG Safety I	HBG Conv. Ctr.	210AB
Tuesday, April 12	3:30 PM	128	LNG Safety II	HBG Conv. Ctr.	210AB
Wednesday, April 13	8:00 AM	144	Keynote - Conversion of Syngas I	HBG Conv. Ctr.	210AB
Wednesday, April 13	10:15 AM	160	Conversion of Syngas II	HBG Conv. Ctr.	210AB
Wednesday, April 13	1:30 PM	182	Techno-Economic and Environmental Aspects	HBG Conv. Ctr.	210AB
Wednesday, April 13	3:30 PM	191	LNG Plant Design and Operation	HBG Conv. Ctr.	210AB

T7 - Topical 7: 25th Topical on Refinery Processing

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	1:30 PM	19	Digital Transformation in Refinery: Artificial Intelligence, Augmented/Virtual Reality Applications	HBG Conv. Ctr.	214CD
Monday, April 11	3:30 PM	43	Meeting Net Zero Targets: Refinery Sustainability	HBG Conv. Ctr.	214CD
Tuesday, April 12	1:30 PM	112	Refinery Profitability, Flexibility, and Optimization	HBG Conv. Ctr.	214CD
Tuesday, April 12	3:30 PM	122	Energy Efficiency	HBG Conv. Ctr.	214CD
Wednesday, April 13	1:30 PM	175	Hydrogen in Refining	HBG Conv. Ctr.	214CD



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2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

T8 - Topical 8: Distillation Symposium

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	3:30 PM	40	Influencing Policy in Support of Climate Solutions (PAIC)	HBG Conv. Ctr.	007A
Tuesday, April 12	8:00 AM	77	Making the Most Out of AIChE as a Young Professional (YP) Member	HBG Conv. Ctr.	007A
Tuesday, April 12	8:00 AM	226	Women in Chemical Engineering (WIC) Networking Breakfast & Keynote (Ticketed Event)	HBG Conv. Ctr.	Stars at Night Ballroom B1
Tuesday, April 12	10:15 AM	97	WIC Panel	HBG Conv. Ctr.	007A
Tuesday, April 12	1:30 PM	103	Industrial safety programs and implementations inclusive of individuals with disabilities (Invited Talks)	HBG Conv. Ctr.	007A
Tuesday, April 12	3:30 PM	126	IDEAL Leadership Panel	HBG Conv. Ctr.	007A
Wednesday, April 13	8:00 AM	145	Leadership Development: Professional Skills to Catalyze Your Career I	HBG Conv. Ctr.	007A
Wednesday, April 13	10:15 AM	168	Leadership Development: Professional Skills to Catalyze Your Career II	HBG Conv. Ctr.	007A
Wednesday, April 13	1:30 PM	178	Negotiation for Chemical Engineers: Negotiation Strategies and Tactics and Evaluating a Job Offer	HBG Conv. Ctr.	007A
Wednesday, April 13	3:30 PM	189	Branding for Nerds: Know and Market Your Value	HBG Conv. Ctr.	007A

T11A - Heat Exchangers

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	1:30 PM	23	Keynote - Les Jackowski, Chevron: Operational Issues Caused By Incorrect Heat Exchanger Design Choices	HBG Conv. Ctr.	209
Monday, April 11	3:30 PM	44	New Technologies	HBG Conv. Ctr.	209
Tuesday, April 12	1:30 PM	108	Maintenance and Reliability	HBG Conv. Ctr.	209
Wednesday, April 13	8:00 AM	140	Fouling Mitigation and Cleaning Technologies I	HBG Conv. Ctr.	209
Wednesday, April 13	10:15 AM	162	Fouling Mitigation and Cleaning Technologies II	HBG Conv. Ctr.	209
Wednesday, April 13	1:30 PM	174	Design, Simulation and Optimization of Heat Exchangers I	HBG Conv. Ctr.	209
Wednesday, April 13	3:30 PM	190	Design, Simulation and Optimization of Heat Exchangers II	HBG Conv. Ctr.	209



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2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

T12 - Hydrogen Safety Topical Conference

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	5:00 PM	56	Poster Session: Hydrogen Safety	HBG Conv. Ctr.	Exhibit Hall 4B
Wednesday, April 13	10:15 AM	165	Hydrogen Safety & Industrial Applications as part of the Energy Transition I	HBG Conv. Ctr.	206A
Wednesday, April 13	1:30 PM	176	Hydrogen Safety & Industrial Applications as part of the Energy Transition II	HBG Conv. Ctr.	206A

T14A - Industrial Wastewater Management and Water Reuse Topical Conference

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	5:00 PM	57	Poster Session: Industrial Wastewater Management and Water Reuse Topical Conference	HBG Conv. Ctr.	Exhibit Hall 4B
Wednesday, April 13	8:00 AM	150	Technology Innovations in Water and Wastewater Treatment Plenary Session	HBG Conv. Ctr.	207B
Wednesday, April 13	10:15 AM	167	Industrial Wastewater Management and Water Reuse I	HBG Conv. Ctr.	207B
Wednesday, April 13	1:30 PM	177	Industrial Wastewater Management and Water Reuse II	HBG Conv. Ctr.	207B
Wednesday, April 13	3:30 PM	188	Application of Process Simulators for Industrial Wastewater, Water, and Water Reuse	HBG Conv. Ctr.	207B

TCA - Process Intensification

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	1:30 PM	22	Intensified Reaction and Separation Processes	HBG Conv. Ctr.	207B
Monday, April 11	3:30 PM	41	Initiatives in Process Intensification and Modular Chemical Processing	HBG Conv. Ctr.	207B
Monday, April 11	5:00 PM	60	Poster Session: Process Intensification	HBG Conv. Ctr.	Exhibit Hall 4B
Tuesday, April 12	8:00 AM	72	Power-To-Products: Challenges and Opportunities	HBG Conv. Ctr.	207B
Tuesday, April 12	10:15 AM	90	Modeling and Simulation of Intensified Processes	HBG Conv. Ctr.	207B

TD - Industry 4.0 Topical Conference

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	9:30 AM	3	Industry 4.0 & Fuels and Petrochemicals Division Joint Plenary	HBG Conv. Ctr.	214CD
Monday, April 11	1:30 PM	14	Analytics & AI Plenary	HBG Conv. Ctr.	214AB
Monday, April 11	5:00 PM	58	Poster Session: Industry 4.0, Analytics & AI	HBG Conv. Ctr.	Exhibit Hall 4B



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2022 SPRING MEETING & 18TH GCPS TECHNICAL PROGRAM GRID

TDA - 8th Analytics and Artificial Intelligence

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	3:30 PM	37	Data Analytics and Statistics	HBG Conv. Ctr.	214AB
Tuesday, April 12	8:00 AM	65	Data Analytics and Smart Manufacturing I	HBG Conv. Ctr.	214AB
Tuesday, April 12	10:15 AM	85	Data Analytics and Smart Manufacturing II	HBG Conv. Ctr.	214AB
Tuesday, April 12	1:30 PM	101	Data-Driven and Hybrid Approaches to Development of New Products I	HBG Conv. Ctr.	214AB
Tuesday, April 12	3:30 PM	121	Data-Driven and Hybrid Approaches to Development of New Products II	HBG Conv. Ctr.	214AB
Wednesday, April 13	8:00 AM	139	Emerging Technologies in Data Analytics	HBG Conv. Ctr.	214AB
Wednesday, April 13	8:00 AM	143	Invited Tutorial Session - Approaches in Data Analytics	HBG Conv. Ctr.	213AB
Wednesday, April 13	10:15 AM	159	Analytics & AI - Industry Perspective	HBG Conv. Ctr.	214AB
Wednesday, April 13	1:30 PM	183	Vendors' Perspective (Session Speakers Invited)	HBG Conv. Ctr.	214AB
Wednesday, April 13	3:30 PM	187	Analytics and Fundamental Modeling	HBG Conv. Ctr.	214AB

TDB - 3rd Enabling Industry Technologies Topical

Day	Time	Session #	Session Title	Property	Room
Monday, April 11	3:30 PM	38	Digital Twins, Augmented Reality, and Advanced Simulation	HBG Conv. Ctr.	213AB
Tuesday, April 12	8:00 AM	66	Digital Transformation in Industry 4.0 I	HBG Conv. Ctr.	213AB
Tuesday, April 12	10:15 AM	86	Digital Transformation in Industry 4.0 II	HBG Conv. Ctr.	213AB
Tuesday, April 12	1:30 PM	113	Sensor Topic: If You Cannot Measure It, You Can-not Improve It I	HBG Conv. Ctr.	213AB
Tuesday, April 12	3:30 PM	133	Sensor Topic: If You Cannot Measure It, You Can-not Improve It II	HBG Conv. Ctr.	213AB
Wednesday, April 13	10:15 AM	161	Cybersecurity in the Chemical Industry (invited session)	HBG Conv. Ctr.	213AB
Wednesday, April 13	1:30 PM	181	Sustainable Engineering in Industry 4.0	HBG Conv. Ctr.	213AB
Wednesday, April 13	3:30 PM	193	Robotics, Cyberphysical, and Autonomous Systems	HBG Conv. Ctr.	213AB



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