

2022 / AIChE
ANNUAL
MEETING

November 13-18, 2022
Phoenix Convention Center
Phoenix, AZ

➤ POWERING THE FUTURE

2022 ANNUAL MEETING CONTENTS

Welcome from the President	1
Meeting Leadership, Notices and Policies	2
Sponsors	3
Exhibitors	4
Sponsored Technology Workshops	5
Onsite Information	6
Floor Plans	7-13
Subject Area Key	14-15
Area Program Grid	16-55
See You Next Year!	56

WELCOME BACK!

Here are some useful links to help guide and enhance your meeting experience:

[2022 AIChE Annual Meeting Homepage](#)

[AIChEvents App](#)

[Technical Program](#)

[Meeting FAQs](#)

[Onsite Information](#)

[Breakout Virtual Meeting Platform](#)

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.

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.

2022 ANNUAL MEETING WELCOME



Greetings —

On behalf of AIChE's Board of Directors, the meeting programmers, and AIChE staff — I am delighted to welcome chemical engineers from around the world to the 2022 AIChE Annual Meeting.

As we rise together above the darker days of the pandemic, it is fitting that we convene this fully-in-person Annual Meeting in Phoenix for the first time in AIChE's history. AIChE continues to celebrate the **New, Exciting, Transformational** elements of our profession. This exciting "NEXT" phase of AIChE is at the foundation of our conference. Our **technical program** keeps pace with the ever-expanding interests of our profession, while shining a light on the future. I encourage you to take advantage of every opportunity for learning, networking, and discussion that you will encounter at our sessions, exhibits, and receptions. Explore the elements of our profession that are outside your technical comfort zone and connect with a new set of colleagues in both industry and academia.

A smart first move will be to download the **AIChEvents app** to your mobile devices. It's the handiest way to track your personal schedule and receive up-to-date onsite information in real-time. I also recommend that you read our **frequently asked questions (FAQ) page** to learn more about the meeting. It's also important to familiarize yourself with the meeting code of conduct in addition to health and safety protocols. AIChE is dedicated to the well-being of its community, and we appreciate your conscientious efforts to keep the meeting safe and enjoyable.

Our meeting's theme — **Powering the Future** — illuminates the many ways that chemical engineers are fueling innovation and driving progress in myriad business sectors. That theme comes into focus during a panel on Monday, Nov. 14, where leaders from industry, academia, and government will reveal new opportunities for chemical engineers to solve societal and global problems, while creating a more sustainable and equitable future.

Additional panels provide compelling perspectives on the future. On Sunday, Nov. 13, we will examine the findings in the recent **Report by the National Academies of Science, Engineering, and Medicine** entitled, "**New Directions for Chemical Engineering**"

Expanded topical conferences spotlight chemical engineering's leadership in transforming medicine and hydrogen-based and synthetic fuels. Programming in the materials realm explore materials interfaces as energy solutions, and the use of sensors in sustainability. Through sessions focused on **AIChE's IDEAL mission**, we will continue our work to intentionally and strategically achieve equity in our institutions and improve the inclusivity of our workforce.

Other topical tracks cover the challenges in managing waste plastics, opportunities in regenerative engineering, innovations in process engineering, and applications of data science to molecules and materials. The Next-Generation Manufacturing conference explores topics such as 3D printing, Industry 4.0, smart manufacturing, process intensification, and cybersecurity.

I'll also draw your attention to the meeting's featured lectures — delivered by some of our profession's brightest stars.

On Monday, the **James Y. Oldshue Lecture** will be presented by **David Suleiman** (University of Puerto Rico, Mayagüez), who will provide insights into nanostructured polymers for energy efficient devices. Also on Monday, the **P. V. Danckwerts Lecture** will feature Diane Hildebrandt (University of Witwatersrand), who will delve into the future of energy.

Tuesday's program spotlights the **Andreas Acrivos Professional Progress Award** lecturer, **Kristala Jones Prather** (MIT). Dr. Prather will highlight microbial chemical factories and the engineering of biological routes to chemical compounds. Also on Tuesday, AIChE's Society for Biological Engineering (SBE) sponsors the **James E. Bailey Award Lecture**. This year's lecturer, **Jonathan S. Dordick** (RPI), shines a light on the science behind "Exploiting Viruses that Kill and Killing Viruses that Exploit."

Wednesday's program highlights the **74th Prausnitz AIChE Institute Lecturer** — **Elsa Reichmanis** (Lehigh University) — who will explain how surface chemistry can impact the design of advanced materials for electronic devices and energy storage and conversion. Also, the **William R. Schowalter Lecture** will be presented by **John L. Anderson** (National Academy of Engineering President), who will reflect on leadership from an engineering mindset.

AIChE is grateful for the generosity of the meeting sponsor organizations and the dedication of our Meeting Program Chairs — **Sindee Simon** of North Carolina State University and **De-Wei Yin** of The Dow Chemical Company. We also thank our presenters, authors, session chairs, and volunteers for demonstrating their commitment to our community. Finally, kudos to the tireless AIChE staff — each year, this amazing team executes numerous conferences, publications and professional development initiatives that benefit every facet of our diverse, global chemical engineering community.

I wish you an enriching and thoroughly enjoyable experience at this meeting as you pursue the "NEXT" in your chemical engineering career.

Sincerely,

A handwritten signature in cursive script that reads "Christine S. Grant".

Christine S. Grant, Ph.D.
2022 AIChE President

2022 ANNUAL MEETING LEADERSHIP, POLICIES AND NOTICES

2022 AIChE ANNUAL MEETING LEADERSHIP



Meeting Program Chair
Sindee Simon, Ph.D.

Professor and Department Head
Chemical & Biomolecular Engineering
North Carolina State University



Meeting Program Co-Chair
De-Wei Yin, Ph.D., P. Eng.

Research Engineer
Core R&D Engineering Sciences
The Dow Chemical Company

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 Annual 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 Annual 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](#).

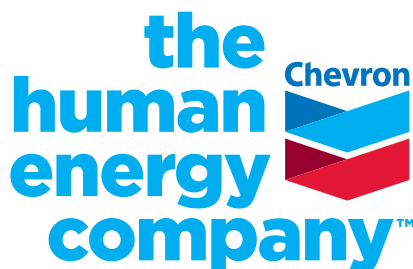
Health and Safety

In accordance with guidelines and regulations outlined by the U.S. Center for Disease Control, the City of Phoenix, and the Phoenix Convention Center, the Annual Meeting has implemented a set of safety protocols to keep attendees safe. For more information on this, please consult the [Meeting FAQ](#).

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AIChEvents app.

THANK YOU TO OUR 2022 AIChE® ANNUAL MEETING SPONSORS

TITANIUM



PLATINUM



GOLD



SILVER



BRONZE



Sponsors as of October 14, 2022

2022 ANNUAL MEETING EXHIBITORS

- Anton Parr
- ACS
- Admiral Instruments
- Alliant Insurance Services
- **Altair***
- American Chemistry Council
- Aon Hewitt
- Aveva
- CASFER
- Chemstations
- **Conagen***
- Corning
- DataPhysics Instruments
- DHS – CISA Division
- **Eastman***
- Eli Lilly
- **Elsevier***
- Gamry
- GEA North America
- **Gurobi***
- Hanwha Solutions Corporation
- Hanwha Total Energies
- Hiden Isochema
- Honeywell
- IKA Works
- INFICON
- JSOL
- **J-STAR/Porton Pharma***
- Los Alamos National Lab
- Mainstream Engineering
- MeltPrep
- Mettler Toledo
- Micromeritics
- Nanoscience
- Parr Instruments
- ProSim
- RAPID Manufacturing Institute
- **Rescale***
- Royal Society of Chemistry
- Schrodinger
- SCM
- Springer Nature
- Surface Measurement Systems
- TA Instruments (Waters Corp)
- Xenocs

* Sponsored Technology Workshop Scheduled
Exhibitors as of October 28, 2022

SPONSORED TECHNOLOGY WORKSHOPS



Learn about the latest technologies that can help your research at the Sponsored Technology Workshops. Companies will provide you with an opportunity to see the most cutting-edge developments in chemical engineering technology that can help you in your current and future positions.



BEYOND THE OPTIMIZER: GUROBI'S HIDDEN GEM FEATURES AND APPLICATIONS IN THE CHEMICAL INDUSTRY

3:30 PM – 4:30 PM ● Monday, November 14 ● N-124AB

This workshop will dive into powerful features that would be of interest to anyone using or creating optimization applications, or those who want to learn more about turning rules-of-thumb into solutions with guaranteed global optimality.



SCALE DOWN FIRST, BEFORE YOU SCALE UP - A TAKE ON SCALE UP OF INDUSTRIAL MICROBIAL FERMENTATION PROCESS

5:00 PM – 6:00 PM ● Monday, November 14 ● N-124AB

This workshop will help you leverage the know-how of your own manufacturing plant or a tolling facility to create a better scale-down model and improve the probability of successful scale-up and the ideal time in the process development phase to initiate scale-up-related discussions.



COMPUTATIONAL CHEMISTRY WORKLOADS VIA HPC BUILT FOR THE CLOUD

8:00 AM – 9:00 AM ● Tuesday, November 15 ● N-124AB

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. In this workshop, we'll provide a demo walkthrough of running computational chemistry codes such as GROMACS, LAMMPS or Quantum Espresso on the Rescale Platform.



CHEMICAL RECYCLING, A BIG STEP TOWARD A SMALLER FOOTPRINT

9:30 AM – 10:30 AM ● Tuesday, November 15 ● 124AB

During this interactive session you will hear how Eastman, a materials innovation company, is developing more sustainable materials while influencing the broader eco-system to ensure their long-term adoption.



COMBINING SIMULATION AND MACHINE LEARNING FOR THE OPTIMIZATION OF POWDER HANDLING PROCESSES WITH ALTAIR SOLUTIONS

12:30 PM – 1:30 PM ● Tuesday, November 15 ● 129AB

This workshop discusses an efficient virtual optimization methodology for industrial bulk handling processes, which combines high-fidelity numerical modelling in Altair EDEM with statistical and machine learning methods in Altair HyperStudy, Activate and romAI, to significantly reduce the computational expense of optimization relative to a purely simulation driven approach.



DEVELOPING INDUSTRY READY SKILLSETS FOR ENGINEERS

12:30 PM – 1:30 PM ● Wednesday, November 16 ● N-129AB

In this Workshop, we will show some perspective on the role of particle mechanics and the opportunities that engineering and simulation may play in solid handling and solid-fluid equipment design.



PARTICLE MECHANICS AND SOLIDS HANDLING IN THE PROCESS INDUSTRIES

9:30 AM – 10:30 AM ● Wednesday, November 16 ● N-229AB

In this Workshop, we will show some perspective on the role of particle mechanics and the opportunities that engineering and simulation may play in solid handling and solid-fluid equipment design.



COMBINED IN-SILICO & EXPERIMENTAL APPROACH FOR SOLID FORM CRYSTALLIZATION DEVELOPMENT

3:30 PM – 4:30 PM ● Wednesday, November 16 ● N-129AB

This presentation will focus on combined in-silico & experimental approaches for solid form screening & selection, including validated methodology and workflow.

Sponsored Technology Workshops as of October 29, 2022

2022 ANNUAL MEETING INFORMATION

GENERAL INFORMATION

Registration & Badge Pick-Up

Phoenix Convention Center, Exhibit Hall E

Saturday, November 12	12:00 PM - 5:00 PM
Sunday, November 13	8:00 AM - 8:00 PM
Monday, November 14	7:00 AM - 5:30 PM
Tuesday, November 15	7:00 AM - 5:00 PM
Wednesday, November 16	7:30 AM - 5:00 PM
Thursday, November 17	7:30 AM - 4:30 PM
Friday, November 18	8:00 AM - 12:00 PM

Exhibition Hours

Phoenix Convention Center, Exhibit Hall E

Sunday, November 13	6:30 PM - 7:30 PM
Monday, November 14	9:30 AM - 5:00 PM
Tuesday, November 15	9:30 AM - 5:00 PM



Lost and Found

For questions and help with lost and found, please go to the registration area located in the Phoenix Convention Center, Exhibit Hall E.



Wireless Internet

We are pleased to offer free, low-bandwidth wireless internet access throughout the Convention Center.

SSID/Network: AICHEAnnual22

Password: ChEmpowered.



OnDemand Content Virtual Platform

You can access the 2022 Annual Meeting Virtual Platform by visiting aiche-ann22.meetbreakout.com



Mobile App

Download the free mobile app to maximize your Annual Meeting experience. Visit the App Store or Google Play and search for "AICHE Events".



Shipping & Printing

The UPS Store is located in the Convention Center West Building on Second Street and can be reached at 602-251-0135.



New Mothers' Mamava Pod

These enclosed, private spaces are lactation stations for new mothers that can be used by event attendees. The Mamava pods are located in the atrium of the West Building and the second level of the North Building. Please ask convention center staff for assistance locating the pods.



Professional Headshot Photos

Phoenix Convention Center, Exhibit Hall E

Update your LinkedIn profile picture or resume photo with a complimentary headshot.

Sunday, November 13	12:00 PM - 5:00 PM
Monday, November 14	9:00 AM - 5:00 PM
Tuesday, November 15	9:00 AM - 5:00 PM



Convention Center Parking

Parking is available at the Phoenix Convention Center for \$15.00/day. Overnight parking is not permitted.

For more information on parking and parking garage locations, please visit the below link.

<https://www.phoenixconventioncenter.com/parking>

REFRESHMENTS DURING THE MEETING



Coffee Breaks

Phoenix Convention Center, Exhibit Hall E

Monday, November 14	10:30 AM - 11:00 AM
Tuesday, November 15	10:30 AM - 11:00 AM



Opening Reception

Phoenix Convention Center, Exhibit Hall E

Sunday, November 13	6:30 PM - 7:30 PM
---------------------	-------------------



Poster Receptions

Phoenix Convention Center, Exhibit Hall E

Monday, November 14	3:30 PM - 5:00 PM
Tuesday, November 15	3:30 PM - 5:00 PM
Wednesday, November 16	3:30 PM - 5:00 PM



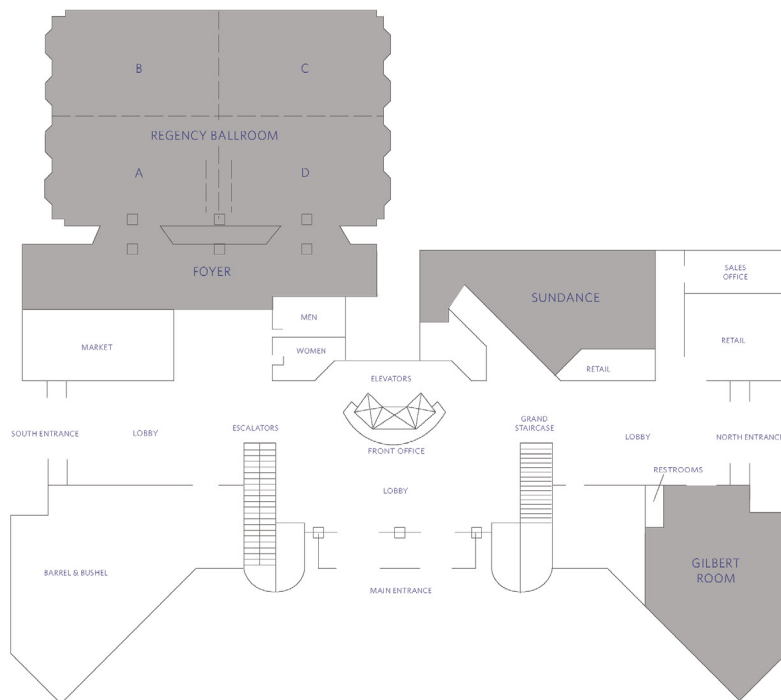
Featured Event Refreshments

Phoenix Convention Center, North Ballroom 120D

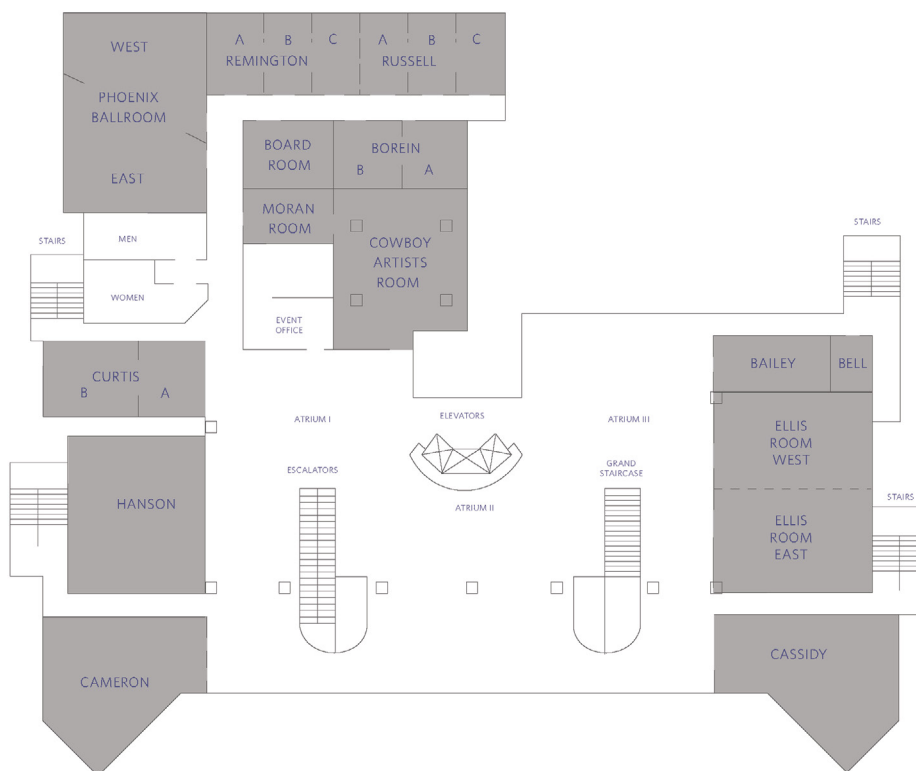
Tuesday, November 15	2022 Andreas Acrivos Award for Professional Progress in Chemical Engineering Lecture
Wednesday, November 16	John M. Prausnitz AIChE Institute Lecture
Wednesday, November 16	William R. Schowalter Lecture (sponsored by the National Academies)

2022 ANNUAL MEETING FLOORPLAN

HYATT REGENCY PHOENIX FIRST FLOOR



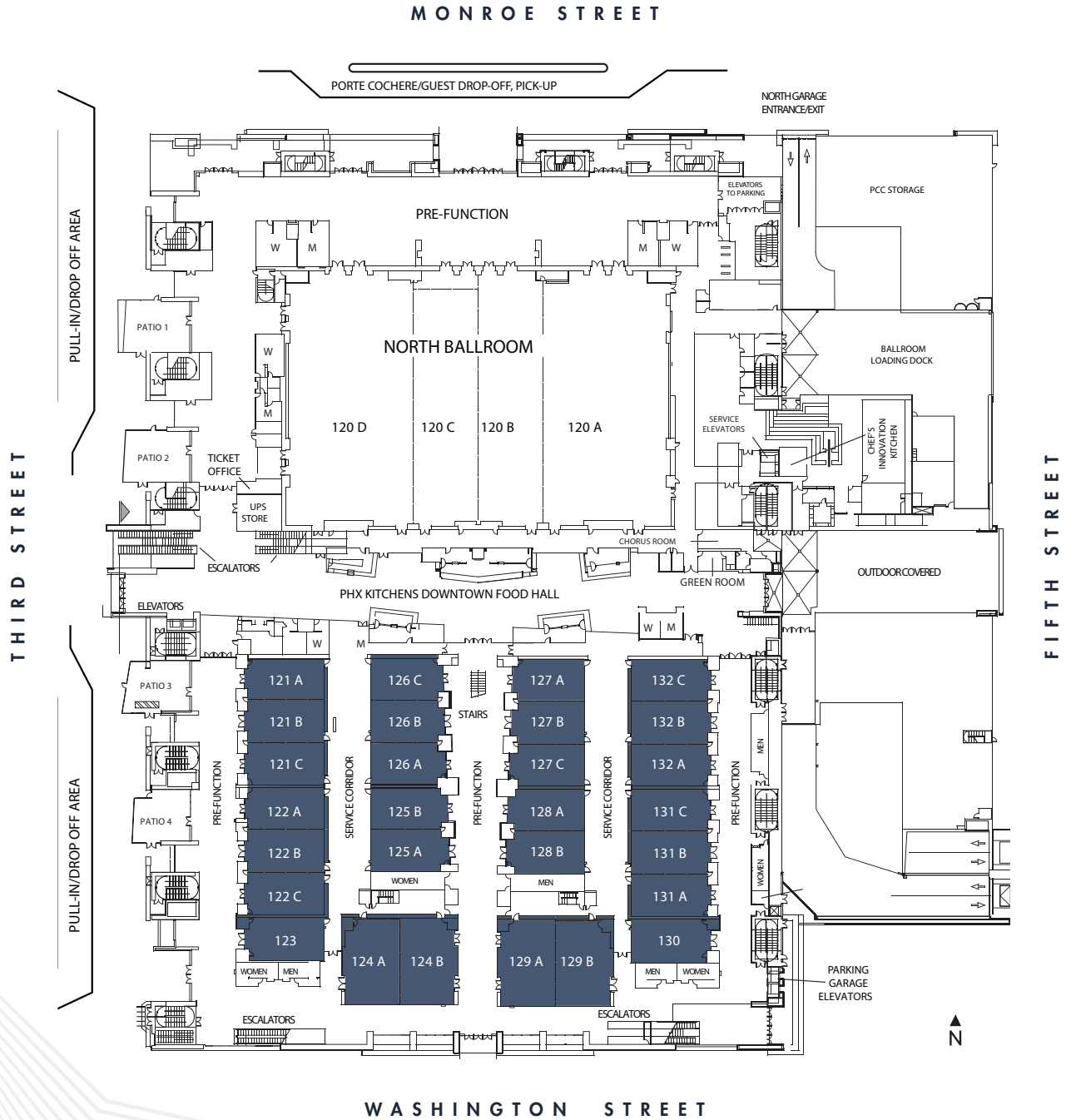
HYATT REGENCY PHOENIX SECOND FLOOR



HYATT REGENCY PHOENIX

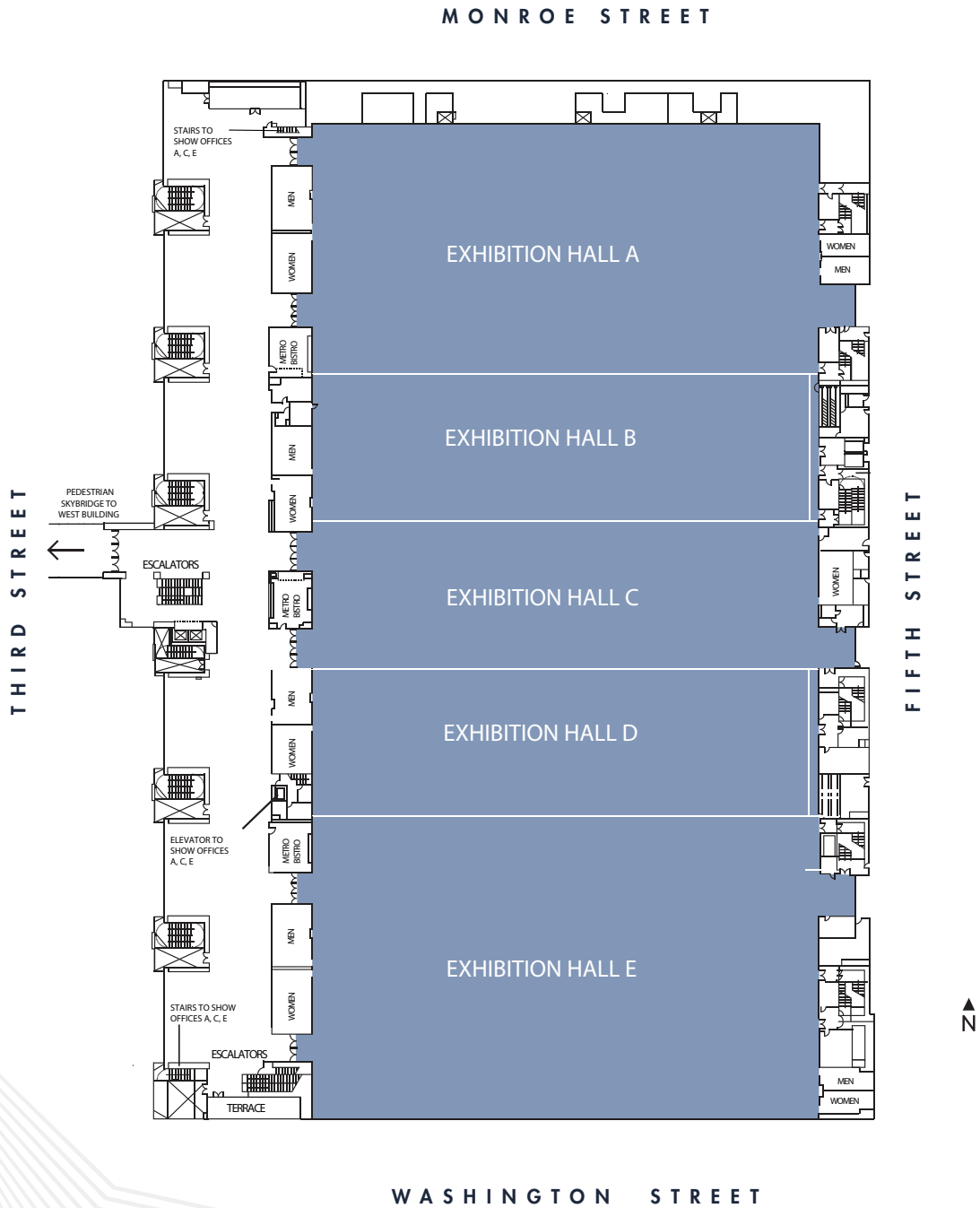
2022 ANNUAL MEETING FLOORPLAN

NORTH 100 LEVEL



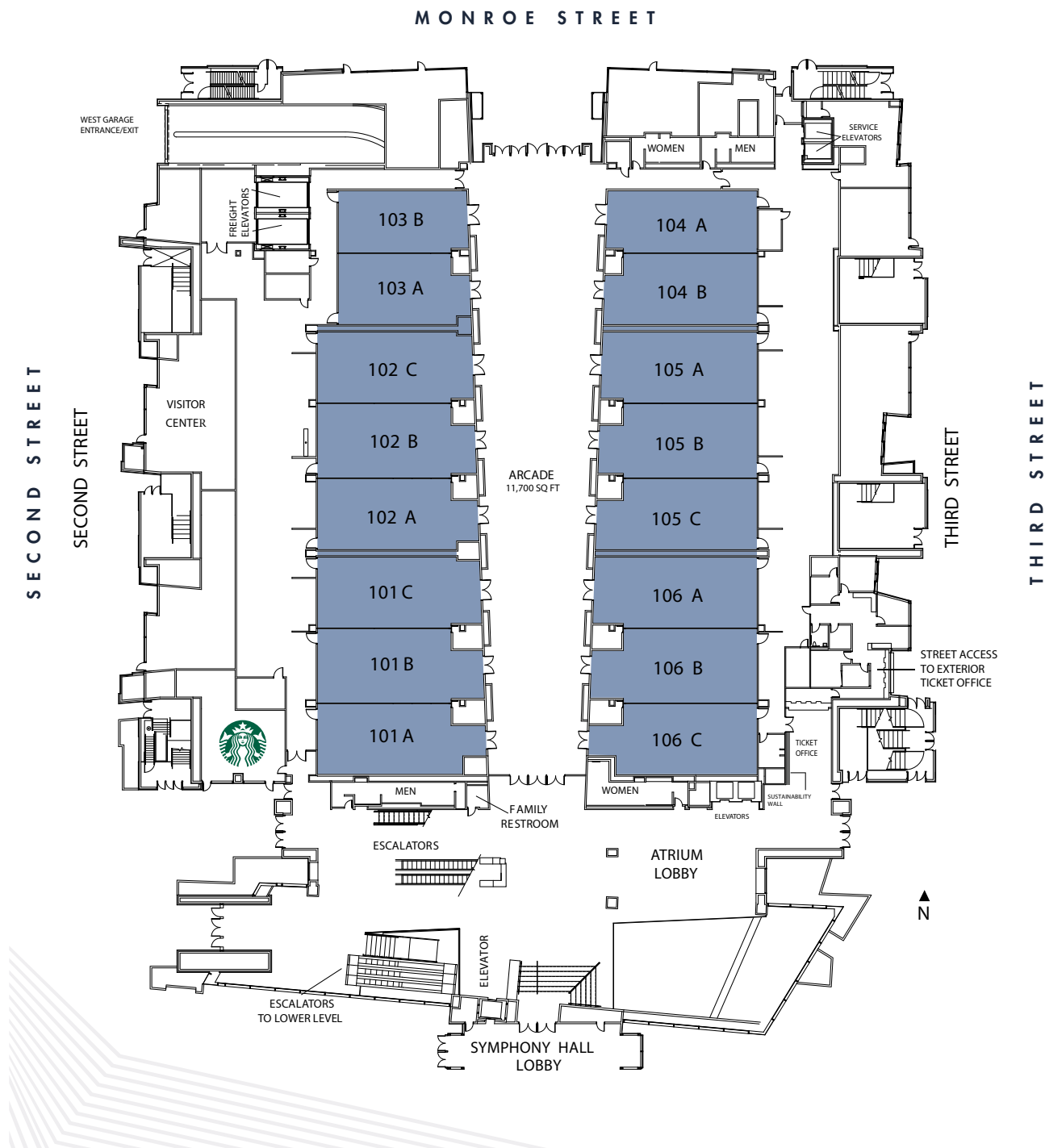
2022 ANNUAL MEETING FLOORPLAN

NORTH 300 LEVEL



2022 ANNUAL MEETING FLOORPLAN

WEST 100 LEVEL



PHOENIX CONVENTION CENTER

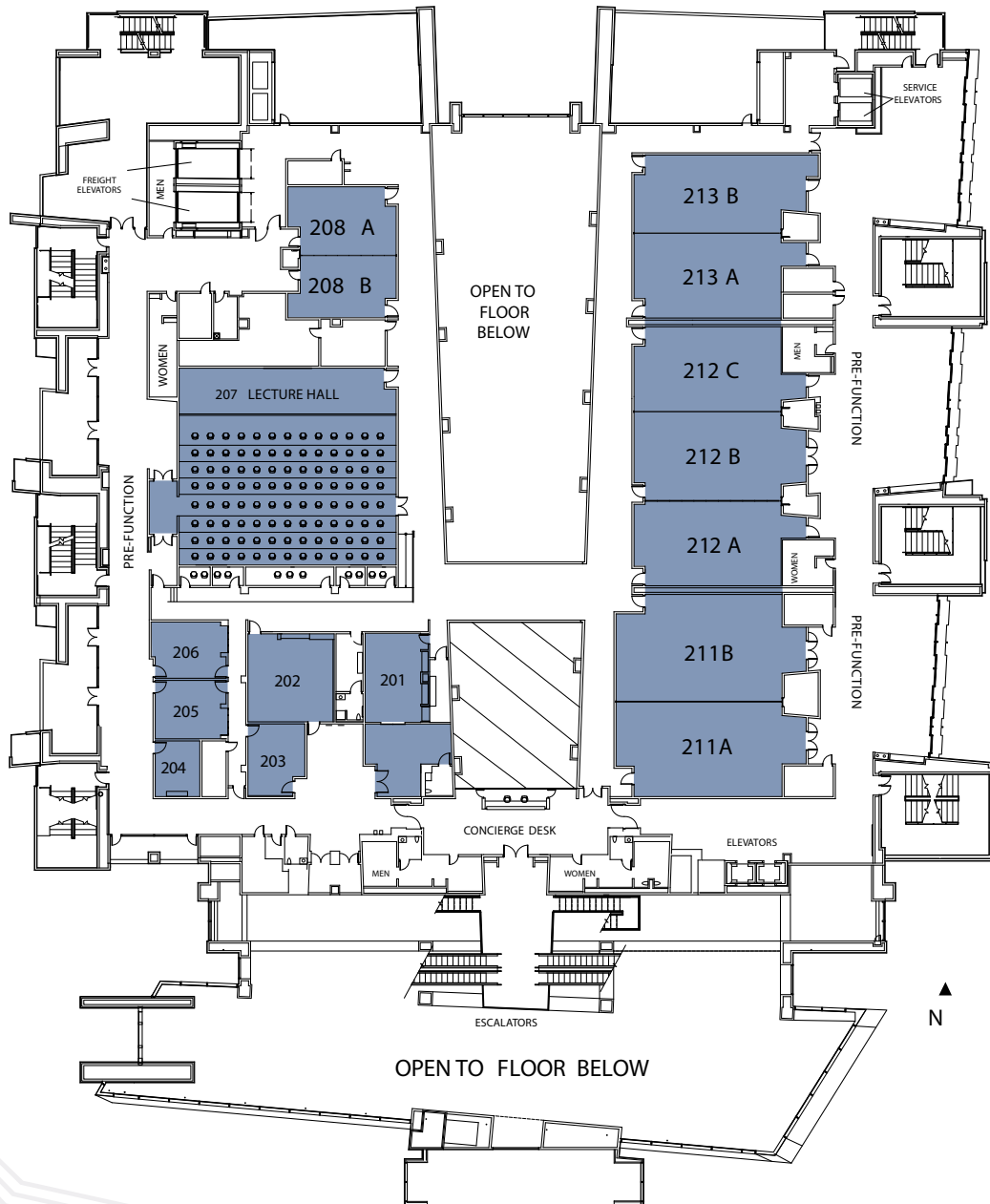
2022 ANNUAL MEETING FLOORPLAN

WEST 200 LEVEL

SECOND STREET

MONROE STREET

THIRD STREET

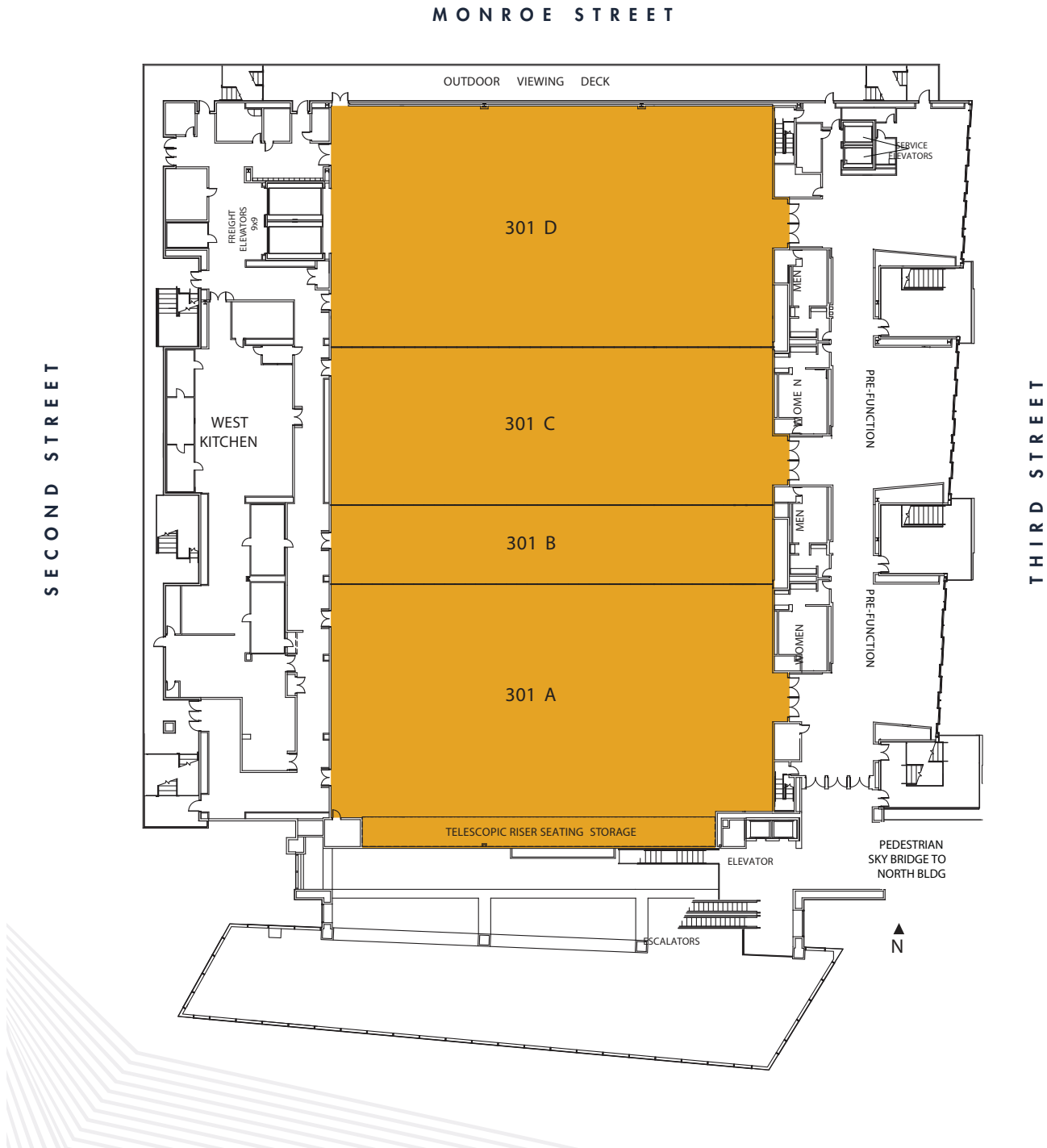


OPEN TO FLOOR BELOW



2022 ANNUAL MEETING FLOORPLAN

WEST 300 LEVEL



2022 ANNUAL MEETING PROGRAM GRID KEY

The full technical program of the 2022 AIChE Annual Meeting 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 AIChE Annual Meeting.

01A - Thermodynamics and Transport Properties

01C - Interfacial Phenomena

01D - Transport Processes

01E - Electrochemical Fundamentals

01F - High Pressure

01J - Fluid Mechanics

02 - Separations Division

02A - Distillation and Absorption

02B - Crystallization and Evaporation

02C - Extractions

02D - Membrane-Based Separations

02E - Adsorption and Ion Exchange

02F - Fluid-Particle Separations

02G - Bio Separations

02H - General Topics and Other Methods

03 - Particle Technology Forum

03A - Particle Production and Characterization

03B - Fluidization and Fluid-Particle Systems

03C - Solids Flow, Handling and Processing

03D - Nanoparticles

03E - Energetics

04 - Education Division

04A - Undergraduate Education

04G - Professional Development Committee Liaison

04H - Career Guidance Committee Liaison

04K - Department Heads Forum

04M - Young Faculty Forum

05 - Management Division

06 - North American Mixing Forum

07 - Transport and Energy Processes

08 - Materials Engineering and Sciences Division

08A - Polymers

08B - Biomaterials

08D - Inorganic Materials

08E - Electronics and Photonics

08F - Composites

09 - Environmental Division

09A - Air

09B - Water

09C - Solid and Hazardous Waste

09D - Process Development

09F - Fundamentals

09G - Sustainability

09H - Climate Change

09I - Fossil Energy

10 - Computing and Systems Technology Division

10A - Systems and Process Design

10B - Systems and Process Control

10C - Systems and Process Operations

10D - Applied Mathematics and Numerical Analysis

10E - Information Management and Intelligent Systems

12 - Process Development Division

12A - Process Research and Innovation

12B - Pilot Plants

12C - Technology Transfer and Manufacturing

12E - Process Intensification & Microprocess Engineering

12G - Product Design

14 - Nuclear Engineering Division

15 - Food, Pharmaceutical & Bioengineering Division

15A - Food

15C - Bioengineering

15D - Engineering Fundamentals in Life Science

16 - Fuels and Petrochemicals Division

17 - Forest and Plant Bioproducts Division



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

2022 ANNUAL MEETING PROGRAM GRID KEY

18 - Liaison Functions

18A - Miscellaneous

18B - Public Affairs and Information Committee (PAIC)

18C - Young Professionals Committee (YPC)

18D - Publication Committee

18E - Awards Committee

18J - Research and New Technology Committee (RANTC)

18K - Keynotes and Plenaries

18L - International Committee

20 - Catalysis and Reaction Engineering Division

20A- Catalysis

20B- Reaction Engineering

21 - Computational Molecular Science and Engineering Forum

22 - Nanoscale Science and Engineering Forum

22A - Carbon Nanomaterials

22B - Bionanotechnology

22C - Nanomaterials for Energy Applications

23 - Sustainable Engineering Forum

23A - Sustainability Science and Engineering

23B - Sustainable Biorefineries

23C - Sustainable Energy

24 - Chemical Engineering & the Law Forum

26 - Pharmaceutical Discovery, Development and Manufacturing Forum

T1 - Meet the Candidates Poster Sessions

T2 - Entrepreneurship in Chemical Engineering

T3 - Applications of Data Science to Molecules and Materials

T4 - Bridging the Skills Gap in Chemical Engineering

T5 - Material Interfaces as Energy Solutions

T6 - Next-Gen Manufacturing

T6A - Next-Gen Manufacturing

T6C - 3D Printing

T7 - Regenerative Engineering Society

T9 - Sensors for Sustainability

TC - Engineering for Inclusion

TCA - Minority Affairs Committee (MAC)

TCB - Women in Chemical Engineering (WIC)

TCC - LGBTQ+ and Allies Community

TCD - Disabilities OutReach & Inclusion Community (DORIC)

TCE - The Role of Intersectionality in Chemical Engineering

TD - Innovations in Process Engineering

TDA - Green Process and Product Engineering

TDB - Process Intensification & Modular Chemical Processing

TF - Chemical Engineers in Medicine

TH - Sustainable Pathways Toward Hydrogen and Synthetic Fuels

TJ - Waste Plastics

2022 TECHNICAL PROGRAM GRID

Property Key
Phoenix Convention Center = PCC

01A - Thermodynamics and Transport Properties					
Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	15	Rational Design and Optimization of Soft Materials	PCC	N-222C
Monday	8:00 AM	53	Faculty Candidates in CoMSEF/Area 1a, Session 1	PCC	N-222C
Monday	8:00 AM	55	Thermophysical Properties: Theory and Experiments for Charged Systems	PCC	N-223
Monday	12:30 PM	115	New Frontiers of Molecular Thermodynamics (Invited Talks)	PCC	N-223
Monday	12:30 PM	140	Physical Properties for Chemical Product and Process Design*	PCC	N-222C
Monday	3:30 PM	181	Recent Advances in Molecular Modeling of Interfacial Thermodynamics and Dynamics*	PCC	N-222B
Monday	3:30 PM	191	Faculty Candidates in CoMSEF/Area 1a, Session 2	PCC	N-222C
Monday	3:30 PM	192	Molecular Simulation and Modeling of Complex Molecules	PCC	N-223
Tuesday	8:00 AM	244	Computational Studies of Self-Assembly	PCC	N-223
Tuesday	8:00 AM	245	Symposium on Thermophysical Properties for Industry: Experiments and Models	PCC	N-222C
Tuesday	12:30 PM	305	Computational Studies of Early-Stage and Low-Dimensional Self-Assembly	PCC	N-223
Tuesday	12:30 PM	309	Honorary sessions for Keith Gubbins' 85th birthday	PCC	N-222B
Tuesday	3:30 PM	367	Poster Session: Thermodynamics and Transport Properties (Area 1A)	PCC	Exhibit Hall E
Tuesday	3:30 PM	395	Properties and Phase Equilibria for Fuels and Petrochemicals*	PCC	W-102C
Wednesday	8:00 AM	444	Thermophysical Properties and Phase Behavior I	PCC	N-222C
Wednesday	12:30 PM	494	Thermophysical Properties and Phase Behavior II	PCC	N-222C
Wednesday	12:30 PM	505	Polymer Thermodynamics and Self-Assembly: Predicting Properties*	PCC	N-121C
Thursday	8:00 AM	591	Thermodynamics at the Nanoscale	PCC	N-222C
Thursday	12:30 PM	626	Effects of Confinement on Molecular Properties	PCC	N-222C
Thursday	3:30 PM	656	Machine Learning for Soft Materials II*	PCC	N-222B
Thursday	3:30 PM	660	Development of Intermolecular Potential Models	PCC	N-222C
Thursday	3:30 PM	670	Polymer Thermodynamics and Self-Assembly: Polymer-Molecular Interactions*	PCC	N-122B
Friday	8:00 AM	691	Modeling of Lipid Membranes and Membrane Proteins	PCC	N-222C
Friday	12:30 PM	711	The Industrial Fluid Properties Simulation Challenge*	PCC	N-222B
Friday	12:30 PM	712	Thermodynamics of Biomolecular Folding and Assembly	PCC	N-222C

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

01C - Interfacial Phenomena

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	14	Fundamentals of Interfacial Phenomena I	PCC	N-232B
Sunday	3:30 PM	16	Self-Assembly in Solution	PCC	N-232A
Monday	8:00 AM	51	Colloidal Dispersions	PCC	N-232A
Monday	8:00 AM	54	Fundamentals of Interfacial Phenomena II	PCC	N-232B
Monday	12:30 PM	111	Active Colloidal Systems	PCC	N-232A
Monday	12:30 PM	113	Biomolecules at Interfaces I	PCC	N-232B
Monday	3:30 PM	163	Poster Session: Interfacial Phenomena (Area 1C)	PCC	Exhibit Hall E
Tuesday	8:00 AM	241	Area Plenary: Interfacial Phenomena (Invited Talks)	PCC	N-129AB
Tuesday	12:30 PM	306	Connecting the Dots in Industry (Invited Talks)	PCC	N-232C
Tuesday	3:30 PM	386	WIC Drop-in Mentoring*	PCC	N-232C
Tuesday	3:30 PM	387	Biomolecules at Interfaces II	PCC	N-125B
Wednesday	8:00 AM	438	Anisotropic Particles: Synthesis, Characterization, Modeling, Assembly, and Applications	PCC	N-232B
Wednesday	8:00 AM	440	Experimental Methods for the Study of Interfacial Phenomena	PCC	N-232C
Wednesday	8:00 AM	442	Interfacial Processes at Biomembranes	PCC	N-231B
Wednesday	12:30 PM	489	Directed and Self Assembly of Colloids	PCC	N-232C
Wednesday	12:30 PM	490	Dynamic Processes at Interfaces	PCC	N-232B
Wednesday	3:30 PM	551	Modeling of Interfacial Systems	PCC	N-232C
Wednesday	3:30 PM	552	Solid-Liquid Interfaces	PCC	N-232B
Thursday	8:00 AM	589	Interfacial Phenomena in Electrochemical and Electrokinetic Systems	PCC	N-232C
Thursday	8:00 AM	590	Special Topics in Colloids	PCC	N-232B
Thursday	12:30 PM	627	Emulsions and Foams	PCC	N-232B

01D - Transport Processes

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	56	Advanced Treatment Technologies for Water*	PCC	N-225A
Tuesday	12:30 PM	308	Fundamental Research in Transport Processes	PCC	N-230
Tuesday	3:30 PM	390	Microscale Transport Processes	PCC	N-230
Wednesday	12:30 PM	493	Nonlinear Flows and Combined Transport Processes*	PCC	N-232A
Friday	8:00 AM	699	Transport Phenomena in Polymer Systems*	PCC	N-122B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

01E - Electrochemical Fundamentals					
Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	30	Charged and Ion Containing Polymers I*	PCC	N-122A
Monday	8:00 AM	52	Electrochemical Advances to Enable Efficient Oxygen, Hydrogen and Water Reactions I	PCC	N-232C
Monday	12:30 PM	114	Emerging Topics in Electrochemical Engineering: Electrochemical Separations (Invited Talks)	PCC	N-232C
Monday	12:30 PM	129	Charged and Ion Containing Polymers II*	PCC	N-122A
Monday	3:30 PM	190	Electrochemical Advances to Enable Efficient Oxygen, Hydrogen and Water Reactions II	PCC	N-232C
Tuesday	8:00 AM	247	Tutorial Session on Electrochemical Methods, Systems and Applications (Invited Talks)	PCC	N-232B
Tuesday	12:30 PM	307	Electrochemical Fundamentals: Faculty Candidate Session I	PCC	N-232B
Tuesday	3:30 PM	389	Electrochemical Fundamentals: Faculty Candidate Session II	PCC	N-232B
Tuesday	3:30 PM	403	Charged and Ion Containing Polymers III*	PCC	N-121A
Wednesday	8:00 AM	439	Electrochemistry & Electrochemical Engineering for Environmental & Sustainability Applications	PCC	N-231A
Wednesday	12:30 PM	491	Lithium & Beyond: Fundamental Advances in High Performance Batteries I	PCC	N-231A
Wednesday	3:30 PM	549	Lithium & Beyond: Fundamental Advances in High Performance Batteries II	PCC	N-231A

01F - High Pressure					
Day	Time	Session #	Session Title	Property	Room
Tuesday	8:00 AM	246	Thermodynamic and Transport Properties Under Pressure	PCC	N-232C
Tuesday	3:30 PM	395	Properties and Phase Equilibria for Fuels and Petrochemicals*	PCC	W-102C

01J - Fluid Mechanics					
Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	112	Area Plenary: Symposium in Memory of James W. Swan (Invited Talks)	PCC	N-229AB
Monday	3:30 PM	162	Fluid Mechanics Poster Session	PCC	Exhibit Hall E
Tuesday	8:00 AM	242	Colloidal Hydrodynamics	PCC	N-232A
Tuesday	8:00 AM	243	Complex Fluids	PCC	N-231C
Tuesday	12:30 PM	310	Particulate and Multiphase Flows: Emulsions, Bubbles, Droplets	PCC	N-231C
Tuesday	12:30 PM	311	Rheology of Biomaterials and Biological Systems	PCC	N-232A
Tuesday	3:30 PM	388	Data Science in Complex Fluids and Complex Flows	PCC	N-232A
Tuesday	3:30 PM	391	Particulate and Multiphase Flows: Colloids and Polymers	PCC	N-231C
Tuesday	3:30 PM	405	Polymer Networks and Gels I*	PCC	N-122B
Wednesday	8:00 AM	441	Interfacial and Non-Newtonian Flows	PCC	N-232A
Wednesday	8:00 AM	443	Soft and Active Systems	PCC	N-231C

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Wednesday	12:30 PM	492	Microfluidic and Microscale Flows: Multiphase and Fields	PCC	N-231C
Wednesday	12:30 PM	493	Nonlinear Flows and Combined Transport Processes	PCC	N-232A
Wednesday	3:30 PM	550	Microfluidic and Microscale Flows: Separations and Particulates	PCC	N-231C
Wednesday	3:30 PM	560	Polymer Networks and Gels II*	PCC	N-122B
Thursday	8:00 AM	604	Polymer Viscoelasticity: Mechanics, Processing, and Rheology I*	PCC	N-121C
Thursday	12:30 PM	639	Polymer Viscoelasticity: Mechanics, Processing, and Rheology II*	PCC	N-121C

02 - Separations Division

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	85	Division Plenary: Gerhold and Kunesh Awards on Separations (Invited Talks)	PCC	N-124AB
Monday	12:30 PM	114	Emerging Topics in Electrochemical Engineering: Electrochemical Separations (Invited Talks)*	PCC	N-232C
Tuesday	3:30 PM	374	Poster Session: Separations Division	PCC	Exhibit Hall E
Wednesday	8:00 AM	455	Process Intensification and Modular Manufacturing: Intensified Reaction and Separation Processes*	PCC	N-221B
Wednesday	12:30 PM	522	Honorary Session for Prof. Ranil Wickramasinghe I*	PCC	N-130
Wednesday	3:30 PM	570	Honorary Session for Prof. Ranil Wickramasinghe II*	PCC	N-130

02A - Distillation and Absorption

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	145	Distillation and Absorption Processes Fundamentals, Developments, Optimization, and Applications	PCC	N-225A

02B - Crystallization and Evaporation

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	148	Modeling and Control of Crystallization	PCC	N-131A
Monday	3:30 PM	214	Plenary Session: Crystallization and Evaporation - Area 2B (Invited Talks)	PCC	N-131A
Tuesday	8:00 AM	279	Nucleation and Growth I	PCC	N-131A
Tuesday	12:30 PM	341	Crystallization of Pharmaceutical and Biological Molecules	PCC	N-131A
Wednesday	8:00 AM	460	Crystallization in Process Development *	PCC	W-106A
Wednesday	8:00 AM	468	Nucleation and Growth II	PCC	N-131A
Wednesday	12:30 PM	521	Continuous Crystallization Processes	PCC	N-131A
Thursday	8:00 AM	611	Solid Form Selection: Cocrystals, Salts, Solvates, Polymorphs, and Beyond	PCC	N-131A
Thursday	12:30 PM	646	Particle Formation and Crystallization Processes from Liquids, Slurries, and Emulsions	PCC	N-131A
Thursday	3:30 PM	676	PAT and Process Monitoring in Crystallization Development and Manufacturing	PCC	N-131A

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

02C - Extractions

Day	Time	Session #	Session Title	Property	Room
Monday	3:30 PM	212	Developments in Extractive Separations: Processes	PCC	N-132A
Wednesday	8:00 AM	466	Developments in Extractive Separations: Solvents	PCC	N-132A

02D - Membrane-Based Separations

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	60	Membrane and Process Technologies in Food and Bioprocess Engineering*	PCC	N-131A
Monday	12:30 PM	147	Frontiers in New Materials and Membranes for Bioseparations*	PCC	N-130
Monday	3:30 PM	213	Honorary Session for Prof. Suzana Nunes I	PCC	N-131B
Tuesday	8:00 AM	277	Honorary Session for Prof. Suzana Nunes II	PCC	N-131B
Tuesday	8:00 AM	278	Membranes for CO2 Capture I	PCC	N-132A
Tuesday	8:00 AM	280	Water Treatment, Desalination, and Reuse I	PCC	N-130
Tuesday	12:30 PM	342	Honorary Session for Prof. Suzana Nunes III	PCC	N-131B
Tuesday	12:30 PM	343	Membrane Modeling and Simulation	PCC	N-132A
Tuesday	3:30 PM	373	Poster Session: Membrane Separations	PCC	Exhibit Hall E
Wednesday	8:00 AM	455	Process Intensification and Modular Manufacturing: Intensified Reaction and Separation Processes*	PCC	N-221B
Wednesday	8:00 AM	469	Water Treatment, Desalination, and Reuse II	PCC	N-131B
Wednesday	12:30 PM	518	Advanced Inorganic Materials for Membrane Gas Separation	PCC	N-132A
Wednesday	12:30 PM	519	Advanced Polymer Membranes for Gas and Vapor Separations	PCC	N-131B
Wednesday	12:30 PM	522	Honorary Session for Prof. Ranil Wickramasinghe I*	PCC	N-130
Wednesday	3:30 PM	570	Honorary Session for Prof. Ranil Wickramasinghe II*	PCC	N-130
Wednesday	3:30 PM	571	Membranes for CO2 Capture II	PCC	N-132A
Thursday	8:00 AM	607	Charged Polymers for Membrane-Based Water and Energy Applications	PCC	N-221C
Thursday	8:00 AM	609	Membrane Formation	PCC	N-132A
Thursday	12:30 PM	642	Highly Selective Separations with Membranes	PCC	N-221C
Thursday	12:30 PM	643	Innovation in Membrane Manufacturing	PCC	N-131B
Thursday	12:30 PM	644	Membrane-Based Organic Solvent Separations	PCC	N-132A
Thursday	3:30 PM	678	Surface Engineered and Responsive Membranes	PCC	N-132A
Friday	8:00 AM	702	Antifouling Membranes for Water Purification	PCC	N-131C
Friday	8:00 AM	705	Mixed-Matrix Materials for Gas Separation	PCC	N-132A

02E - Adsorption and Ion Exchange

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	143	Adsorbent Materials for Sustainable Energy and Chemicals	PCC	N-131B
Monday	12:30 PM	144	Adsorption Applications for Sustainable Energy and Chemicals	PCC	N-132A
Monday	3:30 PM	211	Area Plenary: Adsorption and Ion Exchange - In Honor of Prof. Andreas Seidel-Morgenstern (Invited Talks)	PCC	N-131C

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Tuesday	8:00 AM	276	Area Plenary: Fundamentals and Applications of Adsorption and Ion Exchange	PCC	N-131C
Tuesday	12:30 PM	339	Adsorbent Materials	PCC	N-131C
Tuesday	3:30 PM	371	Poster Session: Fundamentals and Applications of Adsorption and Ion Exchange	PCC	Exhibit Hall E
Wednesday	8:00 AM	465	Adsorbent Materials: MOFs	PCC	N-131C
Wednesday	12:30 PM	520	Characterization of Adsorbent Materials	PCC	N-131C
Wednesday	3:30 PM	568	Adsorption Processes for Energy Storage and Utilization	PCC	N-131A
Wednesday	3:30 PM	572	Molecular and Data Science Modeling of Adsorption I	PCC	N-131C
Thursday	8:00 AM	608	Experimental Methods in Adsorption	PCC	N-130
Thursday	8:00 AM	610	Molecular and Data Science Modeling of Adsorption II	PCC	N-131C
Thursday	12:30 PM	645	Molecular Simulations for Designing Adsorbents and Adsorption Processes	PCC	N-130
Thursday	12:30 PM	647	PSA/TSA and Adsorption Processes Design and Scale-up	PCC	N-131C
Thursday	3:30 PM	674	Chromatographic Separations and SMB	PCC	N-131C
Thursday	3:30 PM	677	Scale-up and Industrial Applications of Adsorption	PCC	N-130
Friday	8:00 AM	703	CO ₂ Capture By Adsorption	PCC	N-130
Friday	8:00 AM	704	Diffusion, Transport and Dynamics in Adsorption Systems	PCC	N-131B
Friday	8:00 AM	706	Structured Adsorbents: Beyond Pellets and Beads	PCC	N-131A

02F - Fluid-Particle Separations

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	146	Fluid Particle Separations in Energy and Environmental Systems	PCC	N-131C
Wednesday	3:30 PM	569	Advances in Fluid Particle Separations	PCC	N-131B

02G - Bio Separations

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	147	Frontiers in New Materials and Membranes for Bioseparations	PCC	N-130
Monday	3:30 PM	195	Integrated Biorefineries: Technologies and TEA/LCA*	PCC	W-103A
Tuesday	12:30 PM	340	Advances in Bioseparations	PCC	N-130
Tuesday	3:30 PM	370	Poster Session: Bioseparations	PCC	Exhibit Hall E
Wednesday	8:00 AM	467	Next Generation Biomolecules and Bioprocesses	PCC	N-130
Wednesday	12:30 PM	501	Sustainable Biodegradable Polymers from Renewable & Waste Resources *	PCC	N-228A
Wednesday	12:30 PM	522	Honorary Session for Prof. Ranil Wickramasinghe I	PCC	N-130
Wednesday	3:30 PM	570	Honorary Session for Prof. Ranil Wickramasinghe II	PCC	N-130
Thursday	8:00 AM	612	Transformation from Batch to Continuous Processing in Bioseparations	PCC	N-131B
Thursday	3:30 PM	675	Fundamentals, Big Data, Machine Learning and High-throughput screening for Bioseparations	PCC	N-131B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

02F - Fluid-Particle Separations

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	146	Fluid Particle Separations in Energy and Environmental Systems	PCC	N-131C
Wednesday	3:30 PM	569	Advances in Fluid Particle Separations	PCC	N-131B

02G - Bio Separations

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	147	Frontiers in New Materials and Membranes for Bioseparations	PCC	N-130
Monday	3:30 PM	195	Integrated Biorefineries: Technologies and TEA/LCA*	PCC	W-103A
Tuesday	12:30 PM	340	Advances in Bioseparations	PCC	N-130
Tuesday	3:30 PM	370	Poster Session: Bioseparations	PCC	Exhibit Hall E
Wednesday	8:00 AM	467	Next Generation Biomolecules and Bioprocesses	PCC	N-130
Wednesday	12:30 PM	501	Sustainable Biodegradable Polymers from Renewable & Waste Resources *	PCC	N-228A
Wednesday	12:30 PM	522	Honorary Session for Prof. Ranil Wickramasinghe I	PCC	N-130
Wednesday	3:30 PM	570	Honorary Session for Prof. Ranil Wickramasinghe II	PCC	N-130
Thursday	8:00 AM	612	Transformation from Batch to Continuous Processing in Bioseparations	PCC	N-131B
Thursday	3:30 PM	675	Fundamentals, Big Data, Machine Learning and High-throughput screening for Bioseparations	PCC	N-131B

02H - General Topics and Other Methods

Day	Time	Session #	Session Title	Property	Room
Tuesday	3:30 PM	372	Poster Session: General Topics on Separations	PCC	Exhibit Hall E

03 - Particle Technology Forum

Day	Time	Session #	Session Title	Property	Room
Tuesday	1:00 PM	356	Meet the Industry Candidates Poster Session: Particle Technology Forum*	PCC	Exhibit Hall E
Wednesday	12:30 PM	512	Particle Technology Forum Award Presentations and Baron Award Lecture (Invited Talks)	PCC	N-229AB
Wednesday	3:30 PM	536	Poster Session: Particle Technology Forum	PCC	Exhibit Hall E

03A - Particle Production and Characterization

Day	Time	Session #	Session Title	Property	Room
Tuesday	12:30 PM	333	Particle Breakage and Comminution Processes	PCC	W-106C
Tuesday	1:00 PM	356	Meet the Industry Candidates Poster Session: Particle Technology Forum*	PCC	Exhibit Hall E
Tuesday	3:30 PM	407	Engineered Particles and Nanostructured Particulate Systems Characterization	PCC	W-106C
Wednesday	8:00 AM	461	Particle Agglomeration and Granulation Processes	PCC	W-106C

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

03B - Fluidization and Fluid-Particle Systems

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	78	Fluidization: Fundamentals	PCC	W-106C
Monday	12:30 PM	135	Fluidization: Experimental Investigation and Modeling of Fluidization Processes	PCC	W-106C
Monday	3:30 PM	204	Fluidization: Modeling	PCC	W-106C
Tuesday	8:00 AM	271	Session honoring lifetime achievement of Madhava Syamlal	PCC	W-106C
Tuesday	1:00 PM	356	Meet the Industry Candidates Poster Session: Particle Technology Forum*	PCC	Exhibit Hall E

03C - Solids Flow, Handling and Processing

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	80	Particulate Systems: Solids Handling, Processing, Conveying, Separation, and Heat Transfer	PCC	W-106B
Monday	12:30 PM	137	Particulate Systems: Dynamics and Modeling: Applications	PCC	W-106B
Monday	3:30 PM	206	Particulate Systems: Dynamics and Modeling: Discrete/Continuum Models	PCC	W-106B
Tuesday	8:00 AM	270	Particulate Mixing and Segregation	PCC	W-106B
Tuesday	12:30 PM	335	Pharmaceutical Powder and Particulate Systems	PCC	W-106B
Tuesday	1:00 PM	356	Meet the Industry Candidates Poster Session: Particle Technology Forum*	PCC	Exhibit Hall E
Tuesday	3:30 PM	408	Particle Technology in Product Design and Manufacturing	PCC	W-106A
Tuesday	3:30 PM	409	Powder and Particulate Characterization and Measurement	PCC	W-106B
Wednesday	8:00 AM	460	Crystallization in Process Development	PCC	W-106A
Wednesday	8:00 AM	462	Particle Technology: Honoring John Carson	PCC	W-106B

03D - Nanoparticles

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	79	Functional Nanoparticles and Nanocomposites	PCC	W-106A
Monday	12:30 PM	136	Nanostructured Materials for Pharmaceutical Applications	PCC	W-106A
Monday	3:30 PM	205	Novel Nanoparticles and Nanostructured Catalysis for Energy and Environmental Applications	PCC	W-106A
Tuesday	8:00 AM	269	Novel Nanoparticles and Nanostructured Materials for Pharmaceuticals and Medical Applications	PCC	W-106A
Tuesday	1:00 PM	356	Meet the Industry Candidates Poster Session: Particle Technology Forum*	PCC	Exhibit Hall E

03E - Energetics

Day	Time	Session #	Session Title	Property	Room
Tuesday	12:30 PM	334	Particle Design and Processing of Energetic Materials	PCC	W-106A
Tuesday	1:00 PM	356	Meet the Industry Candidates Poster Session: Particle Technology Forum*	PCC	Exhibit Hall E

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

04 - Education					
Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	49	Supporting Student Development of Professional Skills and Responsibilities	PCC	W-105B
Monday	8:00 AM	714	Advancing Chemical Engineering Education – Perspectives from the National Academies (Workshop)	PCC	W-105C
Monday	12:30 PM	107	Assessment and Evaluation of Student Learning and Performance	PCC	W-105B
Monday	3:30 PM	188	Societal Issues in the ChE Classroom and Curriculum	PCC	W-105B
Tuesday	8:00 AM	238	In Honor of the 2021 Recipient of the Warren K. Lewis Award - Nicholas Peppas - Part I (Invited Talks)	PCC	W-105A
Tuesday	12:30 PM	302	Brown-bag Lunch-and-Learn: Teaching Tips	PCC	W-105B
Tuesday	12:30 PM	303	In Honor of the 2021 Recipient of the Warren K. Lewis Award - Nicholas Peppas - Part II (Invited Talks)	PCC	W-105A
Tuesday	3:30 PM	366	Poster Session: Chemical Engineering Education	PCC	Exhibit Hall E
Wednesday	8:00 AM	436	Workshop: Roundtable Discussions on Current Topics in ChE Education	PCC	W-105C
Wednesday	12:30 PM	487	ChE Summer School Highlights (Invited Talks)	PCC	W-105B
Wednesday	12:30 PM	516	Experiences in Teaching Process Safety*	PCC	N-221C

04A - Undergraduate Education					
Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	48	Free Forum on Engineering Education: Junior and Senior Years	PCC	W-105A
Monday	12:30 PM	108	Computing and Data Science in ChE Education	PCC	W-105C
Monday	3:30 PM	186	Modernization and Integration of the ChE Curriculum	PCC	W-105C
Tuesday	8:00 AM	237	Free Forum on Engineering Education: First Year and Sophomore Year	PCC	W-102A
Tuesday	8:00 AM	239	Safety in ChE: How ChE Departments are Satisfying the AIChE Program Criteria	PCC	W-105B
Tuesday	3:30 PM	384	Chemical Engineering Laboratory Experiments and Instruction	PCC	W-105B
Wednesday	12:30 PM	486	ABET Updates and Insights (Invited Talks)	PCC	W-105A
Wednesday	3:30 PM	546	Education Division Awards Plenary (Invited Talks)	PCC	W-105B
Wednesday	3:30 PM	547	Survey Results and Best Practices (Invited Talks)	PCC	W-105A

04G - Professional Development Committee Liaison					
Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	13	Workshop: Effective Teaching for New or Prospective Faculty	PCC	N-227C

04H - Career Guidance Committee Liaison					
Day	Time	Session #	Session Title	Property	Room
Sunday	10:00 AM	1	Workshop: Career Planning for Prospective Faculty	PCC	N-227C
Monday	12:30 PM	109	NSF Workshop I: Highlights from CBET	PCC	W-105A
Monday	3:30 PM	187	NSF Workshop II: Proposal Writing and Discussions with Program Managers	PCC	W-105A

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

04K - Department Heads Forum

Day	Time	Session #	Session Title	Property	Room
Wednesday	8:00 AM	435	Department Heads Forum (Invited Talks)	PCC	W-105A

04M - Young Faculty Forum

Day	Time	Session #	Session Title	Property	Room
Wednesday	8:00 AM	437	New Faculty Forum (Invited Talks)	PCC	W-105B

05 - Management Division

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	70	Financial basics for Corporate decision-making	PCC	W-102B
Monday	12:30 PM	127	Leading and Managing Industry-Academia Collaborations and Partnerships	PCC	W-102B
Monday	3:30 PM	199	Role of Chemical Engineers in Non-Traditional Industries	PCC	W-102B
Tuesday	12:30 PM	323	Leadership and Management of Sustainable Solutions in Industry	PCC	W-102B
Tuesday	3:30 PM	400	AIChE Management Award Recipient Presentation Session: Nuclear Energy in a Sustainable World	PCC	N-229AB

06 - North American Mixing Forum

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	77	Division Plenary: In Memoriam — Dr. Douglas E. Leng (Invited Talks)	PCC	N-227C
Monday	12:30 PM	134	Advances in Computational Analyses of Mixing Processes	PCC	N-227C
Monday	3:30 PM	203	Analyses of Mixing Processes in Bioreactors	PCC	N-227C
Tuesday	8:00 AM	267	Mixing in Multiphase Systems	PCC	N-227C
Tuesday	12:30 PM	322	Plenary Session: Turbulence and Mixing – In Memory of Professor Robert Brodkey I (Invited Talks)*	PCC	N-222C
Tuesday	3:30 PM	399	Plenary Session: Turbulence and Mixing – In Memory of Professor Robert Brodkey II (Invited Talks)*	PCC	N-222C
Tuesday	3:30 PM	406	Experimental Investigations of Mixing Processes	PCC	N-227C
Wednesday	8:00 AM	459	Mixing Scale-Up and Scale-Down Issues in Pharmaceutical Processes	PCC	N-227C
Wednesday	12:30 PM	511	Novel, Unconventional, or Non-CSTR Mixing Systems	PCC	N-227C
Wednesday	3:30 PM	564	Division Plenary: North American Mixing Forum Awards Session (Invited Talks)	PCC	N-229AB

07 - Transport and Energy Processes

Day	Time	Session #	Session Title	Property	Room
Tuesday	8:00 AM	289	CO2 Capture, Utilization, and Disposal: Key to Clean Energy Production	PCC	N-227B
Tuesday	12:30 PM	319	Fuel Processing for Hydrogen Production*	PCC	W-103A
Tuesday	12:30 PM	354	Transport In Advanced Fuel Cell Technologies	PCC	N-227B
Tuesday	3:30 PM	423	Advanced Electrochemical Storage	PCC	N-227B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AIChEEvents app.

2022 TECHNICAL PROGRAM GRID

Wednesday	8:00 AM	474	Thermal Energy Storage	PCC	N-227B
Wednesday	12:30 PM	531	Advanced Electrochemical Energy Storage Technologies I	PCC	N-227B
Wednesday	3:30 PM	540	Poster Session: Transport and Energy Processes Division	PCC	Exhibit Hall E
Wednesday	3:30 PM	577	Advanced Electrochemical Energy Storage Technologies II	PCC	N-227B

08 - Materials Engineering and Sciences Division

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	154	Machine Learning in Materials Discovery*	PCC	N-227A
Tuesday	12:30 PM	349	Interfacial Systems for Energy Application: Experimental Validation*	PCC	N-227A
Wednesday	8:00 AM	456	Division Plenary: Materials Engineering & Sciences Division (Invited Talks)	PCC	N-129AB
Wednesday	3:30 PM	574	Low Dimensional Materials*	PCC	N-227A
Thursday	12:30 PM	636	Biopolymers*	PCC	N-122B

08A - Polymers

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	30	Charged and Ion Containing Polymers I	PCC	N-122A
Sunday	3:30 PM	31	Rising Stars in Industry – Polymers Research (Invited Talks)	PCC	N-121B
Monday	8:00 AM	74	Polymer Crystallization and Semi-Crystalline Polymers	PCC	N-121C
Monday	8:00 AM	75	Polymer Synthesis and Reaction Engineering	PCC	N-127A
Monday	12:30 PM	129	Charged and Ion Containing Polymers II	PCC	N-122A
Monday	12:30 PM	131	Polymer Simulations: Structure and Fundamental Insights	PCC	N-121C
Monday	3:30 PM	167	Poster Session: Materials Engineering & Sciences (08A - Polymers)	PCC	Exhibit Hall E
Tuesday	8:00 AM	260	Area Plenary: Emerging Areas in Polymer Science and Engineering I (Invited Talks)	PCC	N-121B
Tuesday	12:30 PM	311	Rheology of Biomaterials and Biological Systems*	PCC	N-232A
Tuesday	12:30 PM	324	Area Plenary: Emerging Areas in Polymer Science and Engineering II (Invited Talks)	PCC	N-121B
Tuesday	3:30 PM	391	Particulate and Multiphase Flows: Colloids and Polymers*	PCC	N-231C
Tuesday	3:30 PM	403	Charged and Ion Containing Polymers III	PCC	N-121A
Tuesday	3:30 PM	404	Excellence in Graduate Student Research (Area 08A)	PCC	N-121B
Tuesday	3:30 PM	405	Polymer Networks and Gels I	PCC	N-122B
Wednesday	12:30 PM	505	Polymer Thermodynamics and Self-Assembly: Predicting Properties	PCC	N-121C
Wednesday	12:30 PM	506	Polymers for Energy Storage and Conversion	PCC	N-122B
Wednesday	3:30 PM	560	Polymer Networks and Gels II	PCC	N-122B
Wednesday	3:30 PM	561	Polymer Simulations: Methods and Applications	PCC	N-121C
Thursday	8:00 AM	603	Multifunctional Composites*	PCC	N-121A
Thursday	8:00 AM	604	Polymer Viscoelasticity: Mechanics, Processing, and Rheology I	PCC	N-121C
Thursday	12:30 PM	636	Biopolymers	PCC	N-122B
Thursday	12:30 PM	638	Polymer Thin Films, Confinement, and Interfaces I	PCC	N-122A

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

This program is as of October 6, 2022. An up-to-date program is available at aiche.org/annual and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Thursday	12:30 PM	639	Polymer Viscoelasticity: Mechanics, Processing, and Rheology II	PCC	N-121C
Thursday	3:30 PM	670	Polymer Thermodynamics and Self-Assembly: Polymer-Molecular Interactions	PCC	N-122B
Thursday	3:30 PM	671	Polymer Thin Films, Confinement, and Interfaces II	PCC	N-122A
Friday	8:00 AM	699	Transport Phenomena in Polymer Systems	PCC	N-122B

08B - Biomaterials

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	27	Biomaterials and Life Sciences Eng: Faculty Candidates I	PCC	N-122B
Sunday	3:30 PM	28	Biomaterials I: Biomaterials for Infection, Wound, and/or Disease Treatment	PCC	N-121A
Sunday	3:30 PM	29	Biomaterials in Industry and the Clinic	PCC	N-121C
Monday	8:00 AM	67	Fundamental Interactions of Microbes and Microbial Communities with Materials*	PCC	N-222A
Monday	8:00 AM	72	Biomaterials and Life Sciences Eng: Faculty Candidates II	PCC	N-121B
Monday	8:00 AM	73	Biomaterials II: Biomaterials for Controlling Cell Behavior	PCC	N-122A
Monday	12:30 PM	128	Area Plenary: Leaders in Biomaterials (Invited Talks)	PCC	N-121B
Monday	3:30 PM	168	Poster Session: Materials Engineering & Sciences (08B - Biomaterials)	PCC	Exhibit Hall E
Tuesday	8:00 AM	261	Biomaterial Scaffolds for Tissue Engineering I	PCC	N-122B
Tuesday	8:00 AM	262	Biomaterials: Graduate Student Award Session	PCC	N-121C
Tuesday	12:30 PM	325	Biomaterial Scaffolds for Tissue Engineering II	PCC	N-122B
Tuesday	12:30 PM	326	Biomimetic Materials I	PCC	N-121C
Tuesday	3:30 PM	402	Biomimetic Materials II	PCC	N-121C
Wednesday	3:30 PM	558	Biomaterials for Drug Delivery I: Particle Platforms	PCC	N-121B
Thursday	8:00 AM	600	Biomaterials for Drug Delivery II: Hydrogels and Macroscopic Platforms	PCC	N-122B
Thursday	8:00 AM	601	Hydrogel Biomaterials I: Emerging Applications	PCC	N-121B
Thursday	12:30 PM	636	Biopolymers*	PCC	N-122B
Thursday	12:30 PM	637	Hydrogel Biomaterials II: Cell Instructive Platforms	PCC	N-121B
Thursday	3:30 PM	668	Hydrogel Biomaterials III: Design and Characterization	PCC	N-121B

08D - Inorganic Materials

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	130	Inorganic Materials for Electrochemical Energy Storage	PCC	N-122B
Monday	3:30 PM	169	Poster Session: Materials Engineering & Sciences (08D - Inorganic Materials)	PCC	Exhibit Hall E
Tuesday	8:00 AM	264	Synthesis and Application of Inorganic Materials I: Synthesis	PCC	N-122A
Tuesday	12:30 PM	328	Synthesis and Application of Inorganic Materials II: Applications	PCC	N-122A
Tuesday	3:30 PM	401	AIChE Inorganic Materials Graduate Student Award, Sponsored by Chevron	PCC	N-122A
Wednesday	3:30 PM	562	Two-Dimensional Materials and Thin Films	PCC	N-127B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AIChEEvents app.

2022 TECHNICAL PROGRAM GRID

Thursday	8:00 AM	602	MOF, COF and Porous Polymer Materials	PCC	N-122A
Friday	8:00 AM	696	Accelerated Discovery of Inorganic Materials: High-Throughput Experiments, Modeling, and Data Science	PCC	N-122A

08E - Electronics and Photonics

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	71	Area Plenary: Leaders in Electronic and Photonic Materials (Invited Talks from Industry and Academia)	PCC	N-122B
Monday	3:30 PM	170	Poster Session: Materials Engineering & Sciences (08E - Electronic and Photonic Materials)	PCC	Exhibit Hall E
Tuesday	8:00 AM	263	Materials for Effective Energy Storage (Co-sponsored with Material Interfaces as Energy Solutions)	PCC	N-227A
Tuesday	12:30 PM	327	Electronic and Photonic Materials: Graduate Student Awards	PCC	N-121A
Wednesday	12:30 PM	508	Understanding Perovskite Semiconductors	PCC	N-122A
Wednesday	3:30 PM	559	Materials and Devices: From Energy Generation to Efficient Usage (Co-sponsored with Material Interfaces as Energy Solutions)	PCC	N-122A
Thursday	3:30 PM	669	Materials for Quantum Science	PCC	N-121C
Friday	8:00 AM	698	Fundamental Theory and Characterizations for Optoelectronic Materials	PCC	N-121C

08F - Composites

Day	Time	Session #	Session Title	Property	Room
Monday	3:30 PM	171	Poster Session: Materials Engineering & Sciences (08F - Composite Materials)	PCC	Exhibit Hall E
Monday	3:30 PM	200	Fibers and Coatings: 1D and 2D Composites	PCC	N-121B
Tuesday	8:00 AM	259	Advanced Manufacturing of Composites: 3D and 4D Composites	PCC	N-121A
Wednesday	12:30 PM	506	Polymers for Energy Storage and Conversion*	PCC	N-122B
Wednesday	12:30 PM	507	Sustainable and Bio-inspired composites	PCC	N-121B
Thursday	8:00 AM	603	Multifunctional Composites	PCC	N-121A
Thursday	12:30 PM	638	Polymer Thin Films, Confinement, and Interfaces I*	PCC	N-122A
Thursday	3:30 PM	671	Polymer Thin Films, Confinement, and Interfaces II*	PCC	N-122A
Friday	8:00 AM	697	Data-Driven/Machine Learning-Enabled Design for Nanocomposites	PCC	N-121B

09 - Environmental Division

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	116	Environmental Division Awards and Honors (Invited Talks)	PCC	N-224AB
Monday	12:30 PM	122	Advances in Petroleum Production and Refining*	PCC	W-103A
Tuesday	8:00 AM	256	Developments in Shale Gas and Natural Gas*	PCC	W-103A
Tuesday	12:30 PM	319	Fuel Processing for Hydrogen Production*	PCC	W-103A
Tuesday	3:30 PM	400	AIChE Management Award Recipient Presentation Session: Nuclear Energy in a Sustainable World*	PCC	N-229AB
Wednesday	3:30 PM	533	Poster Session: Environmental Division	PCC	Exhibit Hall E

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

This program is as of October 6, 2022. An up-to-date program is available at aiche.org/annual and in the AIChEvents app.

2022 TECHNICAL PROGRAM GRID

Wednesday	3:30 PM	535	Poster Session: Fuels and Petrochemicals Division*	PCC	Exhibit Hall E
Thursday	3:30 PM	657	Applied Math for Energy and Environmental Applications*	PCC	W-101B

09A - Air

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	17	Design and Analysis of Sustainable Carbon Capture and Emissions Control Technologies*	PCC	N-225B
Monday	8:00 AM	57	Atmospheric Chemistry and Physics: Modeling and Field Studies	PCC	N-225B
Monday	3:30 PM	194	Atmospheric Chemistry and Physics: Laboratory Studies	PCC	N-225B
Tuesday	8:00 AM	288	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels I*	PCC	W-103B
Tuesday	12:30 PM	353	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels II*	PCC	W-103B
Tuesday	3:30 PM	421	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels III*	PCC	W-103B
Wednesday	12:30 PM	529	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels IV*	PCC	W-103B

09B - Water

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	56	Advanced Treatment Technologies for Water	PCC	N-225A
Monday	3:30 PM	193	Advanced Treatment Technologies for Water II	PCC	N-225A
Tuesday	8:00 AM	249	Water Reuse and Recycling	PCC	N-225B
Tuesday	12:30 PM	313	Remediation of Emerging Contaminants and Legacy Compounds	PCC	N-225B
Tuesday	3:30 PM	392	Remediation of Emerging Contaminants and Legacy Compounds II	PCC	N-225B
Wednesday	8:00 AM	464	Materials and Processes for Water Purification and Desalination I*	PCC	N-222A
Wednesday	12:30 PM	517	Materials and Processes for Water Purification and Desalination II*	PCC	N-222A

09C - Solid and Hazardous Waste

Day	Time	Session #	Session Title	Property	Room
Tuesday	12:30 PM	312	Fundamentals and Applications for Waste Treatment and Valorization*	PCC	N-225A
Wednesday	8:00 AM	446	Environmental Advance in Nuclear and Hazardous Waste Processing and Disposal	PCC	N-225A
Wednesday	12:30 PM	495	Fundamentals and Applications for Municipal Solid Waste Treatment and Valorization	PCC	N-225A
Thursday	12:30 PM	629	Waste Plastic - Recycle, Reuse and Remediation Strategies	PCC	N-225A
Thursday	3:30 PM	662	Waste Plastic - Recycle, Reuse and Remediation Strategies II	PCC	N-225A

09D - Process Development

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	36	Design, Analysis, and Optimization of Sustainable Energy Systems and Supply Chains I*	PCC	N-226C
Monday	12:30 PM	123	Developments in Electrochemical Reactors, Fuel Cells, and Electrolyzers II*	PCC	W-102C

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Tuesday	3:30 PM	396	Value-Added Chemicals from Natural Gas I*	PCC	W-103A
Tuesday	3:30 PM	415	Fuel and Energy Decarbonization*	PCC	N-226C
Wednesday	8:00 AM	453	Value-Added Chemicals from Natural Gas II*	PCC	W-103A
Wednesday	8:00 AM	455	Process Intensification and Modular Manufacturing: Intensified Reaction and Separation Processes*	PCC	N-221B
Wednesday	12:30 PM	496	Sustainable Fuel from Renewable Resources*	PCC	N-225B
Wednesday	12:30 PM	525	Process Design: Innovation for Sustainability*	PCC	N-226A
Thursday	8:00 AM	613	Advances in Life Cycle Assessment*	PCC	N-226A
Thursday	3:30 PM	675	Fundamentals, Big Data, Machine Learning and High-throughput screening for Bioseparations *	PCC	N-131B
Thursday	3:30 PM	680	Resilient and Sustainable Supply Chains and Product Systems*	PCC	N-226A

09F - Fundamentals

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	18	Fundamentals of Food, Energy, Water Systems	PCC	N-225A
Tuesday	8:00 AM	248	Fundamentals of Environmental Kinetics and Reaction Engineering	PCC	N-225A
Tuesday	12:30 PM	312	Fundamentals and Applications for Waste Treatment and Valorization	PCC	N-225A
Tuesday	3:30 PM	393	Sustainability Fundamentals and Metrics Applications	PCC	N-225A

09G - Sustainability

Day	Time	Session #	Session Title	Property	Room
Tuesday	8:00 AM	256	Developments in Shale Gas and Natural Gas*	PCC	W-103A
Tuesday	8:00 AM	288	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels I*	PCC	W-103B
Tuesday	12:30 PM	323	Leadership and Management of Sustainable Solutions in Industry*	PCC	W-102B
Tuesday	12:30 PM	353	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels II*	PCC	W-103B
Tuesday	3:30 PM	400	AIChE Management Award Recipient Presentation Session: Nuclear Energy in a Sustainable World*	PCC	N-229AB
Tuesday	3:30 PM	421	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels III*	PCC	W-103B
Wednesday	8:00 AM	445	CO2 Industrial, Engineering and R&D Approaches	PCC	N-225B
Wednesday	12:30 PM	496	Sustainable Fuel from Renewable Resources	PCC	N-225B
Wednesday	12:30 PM	529	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels IV*	PCC	W-103B
Thursday	8:00 AM	593	Environmental Issues involving Biochar	PCC	N-225A
Thursday	3:30 PM	657	Applied Math for Energy and Environmental Applications*	PCC	W-101B

09H - Climate Change

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	17	Design and Analysis of Sustainable Carbon Capture and Emissions Control Technologies*	PCC	N-225B
Monday	3:30 PM	197	Climate Solutions Policy Initiative (CSPI)*	PCC	N-127A

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AIChEvents app.

2022 TECHNICAL PROGRAM GRID

Tuesday	12:30 PM	323	Leadership and Management of Sustainable Solutions in Industry*	PCC	W-102B
Wednesday	8:00 AM	445	CO2 Industrial, Engineering and R&D Approaches*	PCC	N-225B
Wednesday	12:30 PM	502	New processes for efficient CO2 capture and utilization under mild conditions*	PCC	N-230
Thursday	8:00 AM	592	Design and Analysis of Carbon Capture and Negative Emissions Technologies - Experimental	PCC	N-225B
Thursday	12:30 PM	628	Design and Analysis of Carbon Capture and Negative Emissions Technologies - Models	PCC	N-225B
Thursday	3:30 PM	661	Design and Optimization of Integrated Energy Systems	PCC	N-225B
Friday	8:00 AM	692	Design and Optimization of Integrated Energy Systems II	PCC	N-225B

09I - Fossil Energy

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	17	Design and Analysis of Sustainable Carbon Capture and Emissions Control Technologies	PCC	N-225B
Monday	12:30 PM	122	Advances in Petroleum Production and Refining*	PCC	W-103A
Tuesday	8:00 AM	256	Developments in Shale Gas and Natural Gas*	PCC	W-103A
Tuesday	12:30 PM	319	Fuel Processing for Hydrogen Production*	PCC	W-103A
Tuesday	3:30 PM	395	Properties and Phase Equilibria for Fuels and Petrochemicals*	PCC	W-102C
Wednesday	3:30 PM	535	Poster Session: Fuels and Petrochemicals Division*	PCC	Exhibit Hall E
Thursday	8:00 AM	599	Unconventional Oil and Natural Gas: Science & Technology Advancement*	PCC	W-103A

10 - Computing Systems and Technology Division

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	47	Division Plenary: CAST (Invited Talks)	PCC	N-224AB
Monday	12:30 PM	105	CAST Director's Student Presentation Award Finalists (Invited Talks)	PCC	W-101A
Monday	3:30 PM	716	Beyond the Optimizer: Gurobi's Hidden Gem Features and Applications in the Chemical Industry *	PCC	N-124AB
Tuesday	8:00 AM	236	Software Tools and Implementations for Process Systems Engineering	PCC	W-101A

10A - Systems and Process Design

Day	Time	Session #	Session Title	Property	Room
Monday	3:30 PM	183	Advances in Process Design	PCC	W-101A
Tuesday	12:30 PM	301	Industrial Applications in Design and Operations*	PCC	W-101C
Tuesday	3:30 PM	364	Interactive Session: Systems and Process Design	PCC	Exhibit Hall E
Tuesday	3:30 PM	397	Integrated Process Engineering and Economic Analysis*	PCC	N-228B
Wednesday	12:30 PM	485	Process Design in Energy and Sustainability: towards a net zero carbon economy	PCC	W-101A
Wednesday	12:30 PM	503	Process Intensification and Modular Manufacturing: Modeling and Simulation*	PCC	N-221B
Wednesday	3:30 PM	544	Integrated Product and Process Design	PCC	W-101A

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Thursday	3:30 PM	657	Applied Math for Energy and Environmental Applications*	PCC	W-101B
Thursday	3:30 PM	659	Sustainable Process Synthesis, Design and Intensification	PCC	W-101A
Thursday	3:30 PM	661	Design and Optimization of Integrated Energy Systems*	PCC	N-225B

10B - Systems and Process Control

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	12	Data-Driven Dynamic Modeling, Estimation and Control I	PCC	W-101B
Monday	12:30 PM	106	Data-Driven Dynamic Modeling, Estimation and Control II	PCC	W-101B
Monday	3:30 PM	182	Data-Driven Dynamic Modeling, Estimation and Control III	PCC	W-101B
Tuesday	8:00 AM	235	Advances in Process Control I	PCC	W-101B
Tuesday	12:30 PM	299	Advances in Process Control II	PCC	W-101B
Tuesday	3:30 PM	363	Interactive Session: Systems and Process Control	PCC	Exhibit Hall E
Wednesday	8:00 AM	434	Estimation and Control under Uncertainty	PCC	W-101B
Wednesday	12:30 PM	484	Modeling, Estimation and Control Applications	PCC	W-101B
Wednesday	3:30 PM	545	Networked, Decentralized, and Distributed Control	PCC	W-101B
Thursday	8:00 AM	587	Modeling, Control, and Optimization of Energy Systems I	PCC	W-101B
Thursday	12:30 PM	623	Modeling, Control, and Optimization of Energy Systems II	PCC	W-101B
Thursday	3:30 PM	675	Fundamentals, Big Data, Machine Learning and High-throughput screening for Bioseparations *	PCC	N-131B
Friday	8:00 AM	689	Modeling, Control and Optimization Applications	PCC	N-126A

10C - Systems and Process Operations

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	10	Advances in Global Optimization	PCC	W-101C
Monday	12:30 PM	104	Advances in Mixed-Integer Optimization and Optimization with Logistics Applications	PCC	W-101C
Tuesday	8:00 AM	234	Advances in Nonlinear and Surrogate Optimization	PCC	W-101C
Tuesday	12:30 PM	301	Industrial Applications in Design and Operations	PCC	W-101C
Tuesday	3:30 PM	365	Interactive Session: Systems and Process Operations	PCC	Exhibit Hall E
Wednesday	8:00 AM	433	Design and Operations Under Uncertainty - I	PCC	W-101C
Wednesday	12:30 PM	483	Design and Operations under Uncertainty - II	PCC	W-101C
Thursday	12:30 PM	624	Data-driven optimization*	PCC	W-101A
Thursday	12:30 PM	625	Planning, Scheduling, Supply Chain and Logistics - I	PCC	W-101C
Thursday	3:30 PM	658	Planning, Scheduling, Supply Chain and Logistics - II	PCC	W-101C
Friday	8:00 AM	690	Operation of Energy Systems	PCC	N-126B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

10D - Applied Mathematics and Numerical Analysis

Day	Time	Session #	Session Title	Property	Room
Monday	3:30 PM	184	Area Plenary: Future Directions in Applied Mathematics and Numerical Analysis (Invited Talks)	PCC	W-102A
Tuesday	12:30 PM	298	Advances in Computational Methods and Numerical Analysis - I	PCC	W-101A
Tuesday	3:30 PM	361	Interactive Session: Applied Mathematics and Numerical Analysis	PCC	Exhibit Hall E
Wednesday	3:30 PM	542	Advances in Computational Methods and Numerical Analysis - II	PCC	W-101C
Thursday	8:00 AM	586	Applied Math for Biological Systems: Plants and Microbes	PCC	W-101C
Thursday	3:30 PM	657	Applied Math for Energy and Environmental Applications	PCC	W-101B
Friday	8:00 AM	688	Applied Math for Biomedical Systems	PCC	N-126C

10E - Information Management and Intelligent Systems

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	11	Data-Driven and Hybrid Modeling for Decision Making	PCC	W-101A
Monday	3:30 PM	185	Data Science/Analytics for Process Applications	PCC	W-101C
Tuesday	12:30 PM	300	In Honor of Professor Rex Reklaitis' 80th Birthday (Invited Talks)	PCC	W-102A
Tuesday	3:30 PM	362	Interactive Session: Data and Information Systems	PCC	Exhibit Hall E
Wednesday	8:00 AM	432	Advances in Machine Learning and Intelligent Systems I	PCC	W-101A
Wednesday	3:30 PM	543	Advances in Machine Learning and Intelligent Systems II	PCC	W-102A
Thursday	8:00 AM	588	Process Monitoring & Fault Detection	PCC	W-101A
Thursday	12:30 PM	624	Data-driven optimization	PCC	W-101A

12 - Process Development Division

Day	Time	Session #	Session Title	Property	Room
Monday	3:30 PM	209	Special Session In Honor of Dr Muthanna H. Al-Dahhan's 65th Birthday (Invited Talks)	PCC	N-222A
Wednesday	3:30 PM	537	Poster Session: Process Development	PCC	Exhibit Hall E

12A - Process Research and Innovation

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	83	Environmentally Friendly Product and Process Development for Sustainability	PCC	N-221C
Tuesday	12:30 PM	291	Renewable Polymers and Intermediates Technology	PCC	N-221C

12B - Pilot Plants

Day	Time	Session #	Session Title	Property	Room
Monday	3:30 PM	161	Laboratory and Pilot Plant Safety	PCC	N-221C
Tuesday	8:00 AM	273	Facilities of the Future (Invited Talks)*	PCC	N-122C

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

This program is as of October 6, 2022. An up-to-date program is available at aiche.org/annual and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

12C - Technology Transfer and Manufacturing

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	141	Process Development: Design, Risk Reduction, Implementation and Operations	PCC	N-221C
Tuesday	8:00 AM	274	Challenges and Best Practices in Technology Commercialization	PCC	N-221C

12E - Process Intensification & Microprocess Engineering

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	35	Process Intensification – Novel Technologies for Carbon Capture and Carbon Recycling	PCC	N-222A
Tuesday	8:00 AM	275	Process Intensification - Novel Reactors	PCC	N-222A
Tuesday	12:30 PM	338	Process Intensification – Novel Reactors (Energy Focus)	PCC	N-222A
Tuesday	3:30 PM	412	Process Intensification – Novel Integration Concepts	PCC	N-222A

12G - Product Design

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	34	Panel Discussion: Chemical Process and Product Design Careers in Industry & Academia (Invited Talks)	PCC	N-224AB
Monday	12:30 PM	140	Physical Properties for Chemical Product and Process Design	PCC	N-222C
Tuesday	3:30 PM	359	Tools and Techniques for Sustainable/Green Product Design	PCC	N-221C
Wednesday	8:00 AM	464	Materials and Processes for Water Purification and Desalination I	PCC	N-222A
Wednesday	12:30 PM	516	Experiences in Teaching Process Safety	PCC	N-221C
Wednesday	12:30 PM	517	Materials and Processes for Water Purification and Desalination II	PCC	N-222A

14 - Nuclear Engineering Division

Day	Time	Session #	Session Title	Property	Room
Monday	3:30 PM	160	Wilson Award Presentation and Lecture (Invited Talks)	PCC	N-224AB
Monday	4:15 PM	224	Chemical Engineering Applications in the Nuclear Industry	PCC	N-224AB
Tuesday	8:00 AM	268	Theory, Modeling and Simulation of Nuclear Chemical Processes I	PCC	W-102C
Tuesday	12:30 PM	332	Theory, Modeling and Simulation of Nuclear Chemical Processes II	PCC	W-102C
Tuesday	3:30 PM	400	AIChE Management Award Recipient Presentation Session: Nuclear Energy in a Sustainable World*	PCC	N-229AB
Wednesday	8:00 AM	446	Environmental Advance in Nuclear and Hazardous Waste Processing and Disposal*	PCC	N-225A

15 - Food, Pharmaceutical & Bioengineering Division

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	89	Medical Devices*	PCC	N-126C
Monday	12:30 PM	153	Chemical Engineering Principles Advancing Medicine I*	PCC	N-126C

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

This program is as of October 6, 2022. An up-to-date program is available at aiche.org/annual and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Monday	3:30 PM	172	Poster Session: Pharmaceutical Discovery Development and Manufacturing (PD2M)*	PCC	Exhibit Hall E
Tuesday	8:00 AM	253	Food, Pharmaceutical & Bioengineering Faculty Candidates Session I	PCC	N-125B
Tuesday	8:00 AM	284	Big Data and Machine Learning to Advance Medicine*	PCC	N-126C
Tuesday	12:30 PM	316	Food, Pharmaceutical & Bioengineering Faculty Candidates Session II	PCC	N-125B
Tuesday	12:30 PM	340	Advances in Bioseparations*	PCC	N-130
Tuesday	12:30 PM	348	Pandemic Response and Public Health*	PCC	N-126C
Tuesday	3:30 PM	394	Division Plenary: Food, Pharmaceutical, and Bioengineering Division (Invited Talks)	PCC	N-129AB
Tuesday	3:30 PM	417	Infection & Prevention, Epidemiology & Treatments, Diagnostic Approaches*	PCC	N-126C
Wednesday	8:00 AM	467	Next Generation Biomolecules and Bioprocesses*	PCC	N-130
Wednesday	8:00 AM	471	Tissue Engineering, Bioprinting, and Regenerative Medicine*	PCC	N-126C
Wednesday	12:30 PM	526	Engineering Cancer I: Mechanistic Studies*	PCC	N-126C
Wednesday	12:30 PM	528	Next-Gen Manufacturing in Pharma, Food, and Bioprocessing I*	PCC	N-221A
Wednesday	3:30 PM	573	Engineering Cancer II: Therapy*	PCC	N-126C
Thursday	8:00 AM	616	Engineering Cancer III: Devices for Diagnosis, Culturing, and Microenvironment Studies*	PCC	N-126C

15A - Food

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	22	Microbiome and Natural Products in Food, Health, and Bioprocessing	PCC	N-126C
Monday	8:00 AM	60	Membrane and Process Technologies in Food and Bioprocess Engineering	PCC	N-131A
Monday	3:30 PM	166	Poster Session: Food and Bioprocess Engineering	PCC	Exhibit Hall E
Wednesday	8:00 AM	448	Fermentation and Process Engineering in Food and Bioprocess Industries	PCC	N-126B
Wednesday	12:30 PM	499	Metabolic Engineering for Food, Feed, and Bioproducts	PCC	N-126B
Wednesday	3:30 PM	554	Biotechnological Production of Food and Feed Ingredients	PCC	N-126B

15C - Bioengineering

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	21	Engineering Protein Therapeutics	PCC	N-125A
Sunday	3:30 PM	23	Systems and Quantitative Biology: Integrative Omics Analysis	PCC	N-125B
Monday	8:00 AM	61	New Methods in Protein Engineering	PCC	N-125A
Monday	8:00 AM	62	Systems and Quantitative Biology: Modeling Biological Processes	PCC	N-125B
Monday	8:00 AM	67	Fundamental Interactions of Microbes and Microbial Communities with Materials*	PCC	N-222A
Monday	12:30 PM	117	Biocatalysis and Enzyme Engineering	PCC	N-125A

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Monday	12:30 PM	120	Computational and systems biology tools for metabolic engineering and cell characterization	PCC	N-125B
Monday	12:30 PM	125	Technologies for Understanding Microbial Interactions*	PCC	N-222A
Monday	3:30 PM	164	Poster Session: Bioengineering	PCC	Exhibit Hall E
Tuesday	8:00 AM	238	In Honor of the 2021 Recipient of the Warren K. Lewis Award - Nicholas Peppas - Part I (Invited Talks)*	PCC	W-105A
Tuesday	8:00 AM	250	Advances in Biocatalysts and Biocatalytic Processes	PCC	N-125A
Tuesday	12:30 PM	303	In Honor of the 2021 Recipient of the Warren K. Lewis Award - Nicholas Peppas - Part II (Invited Talks)*	PCC	W-105A
Tuesday	12:30 PM	314	Computational, Structure, Biophysical Protein Engineering	PCC	N-125A
Wednesday	8:00 AM	449	New tools & strategies for metabolic engineering	PCC	N-125A
Wednesday	8:00 AM	450	Synthetic biology of underutilized organisms with unique phenotypes	PCC	N-125B
Wednesday	12:30 PM	498	Engineering bacteria for novel chemistry and interactions	PCC	N-125B
Wednesday	12:30 PM	500	Metabolic Platform Development- Non-Conventional Species and Systems	PCC	N-125A
Wednesday	12:30 PM	501	Sustainable Biodegradable Polymers from Renewable & Waste Resources *	PCC	N-228A
Wednesday	3:30 PM	553	Advances in Metabolic Engineering- Eukaryotic Organisms	PCC	N-125A
Wednesday	3:30 PM	556	New approaches for gene and protein regulation	PCC	N-125B
Thursday	8:00 AM	594	Advances in Metabolic Engineering- Prokaryotic Organisms	PCC	N-125A
Thursday	8:00 AM	596	Molecular and Cellular Sensing Technologies	PCC	N-125B
Thursday	12:30 PM	630	Cell Culture Engineering and Biopharmaceutical Manufacturing	PCC	N-125B
Thursday	12:30 PM	632	General Topics in Synthetic Biology and Metabolic Engineering	PCC	N-125A
Thursday	3:30 PM	663	Biobased and Bioderived Processes for Value Added Chemicals and Advanced Materials	PCC	N-125B
Thursday	3:30 PM	664	Diagnostic Technologies for Clinical Applications	PCC	N-125A
Friday	8:00 AM	688	Applied Math for Biomedical Systems*	PCC	N-126C
Friday	8:00 AM	693	Cell-free systems and DNA assembly platforms	PCC	N-125B
Friday	8:00 AM	694	Systems and Quantitative Biology: Disease Mechanisms and Therapies	PCC	N-125A
Friday	12:30 PM	713	Protein Assemblies and Aggregates	PCC	N-125A

15D - Engineering Fundamentals in Life Science

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	19	Biomolecular Engineering I	PCC	N-126A
Sunday	3:30 PM	20	Cell and Tissue Engineering: Mechanical Cues and Cell Behavior	PCC	N-126B
Monday	8:00 AM	58	Biomolecular Engineering II	PCC	N-126A
Monday	8:00 AM	59	Cell and Tissue Engineering: Engineering the Immune Response	PCC	N-126B
Monday	12:30 PM	118	Biomolecular Engineering III	PCC	N-126A
Monday	12:30 PM	119	Cell and Tissue Engineering: Engineering 3D Tissues to Model Disease and Development	PCC	N-126B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Monday	12:30 PM	153	Chemical Engineering Principles Advancing Medicine I*	PCC	N-126C
Monday	3:30 PM	165	Poster Session: Engineering Fundamentals in Life Science	PCC	Exhibit Hall E
Tuesday	8:00 AM	251	Biomolecular Engineering and the Immune System	PCC	N-126A
Tuesday	8:00 AM	252	Cell and Tissue Engineering: Engineering in Aging and Aging Associated Diseases	PCC	N-126B
Tuesday	12:30 PM	315	Drug Delivery	PCC	N-126A
Tuesday	12:30 PM	317	Stem Cells and Tissue Engineering	PCC	N-126B
Wednesday	8:00 AM	447	Drug Delivery Strategies for Immunomodulation	PCC	N-126A
Wednesday	12:30 PM	497	Drug Delivery for Applications in the Brain, Nervous System, and Musculoskeletal System	PCC	N-126A
Wednesday	12:30 PM	526	Engineering Cancer I: Mechanistic Studies*	PCC	N-126C
Wednesday	3:30 PM	555	Micro- and Nano-Scale Technologies in Life Sciences I	PCC	N-126A
Thursday	8:00 AM	595	Micro- and Nano-Scale Technologies in Life Sciences II	PCC	N-126A
Thursday	8:00 AM	597	Systems Biology for Engineering Microbes	PCC	N-126B
Thursday	8:00 AM	616	Engineering Cancer III: Devices for Diagnosis, Culturing, and Microenvironment Studies*	PCC	N-126C
Thursday	12:30 PM	631	Cells, Organs, and Labs on a Chip	PCC	N-126A
Thursday	12:30 PM	633	Systems Biology for Engineering Metabolism	PCC	N-126B
Thursday	3:30 PM	665	Systems Biology of Development and Cancer	PCC	N-126B
Friday	8:00 AM	688	Applied Math for Biomedical Systems*	PCC	N-126C

16 - Fuels and Petrochemicals Division

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	25	Advances in Biofuels Production and Alternative Fuels I	PCC	W-103A
Monday	8:00 AM	64	Advances in Biofuels Production and Alternative Fuels II	PCC	W-103A
Monday	8:00 AM	65	Developments in Electrochemical Reactors, Fuel Cells, and Electrolyzers I	PCC	W-102C
Monday	12:30 PM	122	Advances in Petroleum Production and Refining	PCC	W-103A
Monday	12:30 PM	123	Developments in Electrochemical Reactors, Fuel Cells, and Electrolyzers II	PCC	W-102C
Monday	3:30 PM	195	Integrated Biorefineries: Technologies and TEA/LCA	PCC	W-103A
Tuesday	8:00 AM	256	Developments in Shale Gas and Natural Gas	PCC	W-103A
Tuesday	8:00 AM	288	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels I*	PCC	W-103B
Tuesday	12:30 PM	319	Fuel Processing for Hydrogen Production	PCC	W-103A
Tuesday	12:30 PM	353	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels II*	PCC	W-103B
Tuesday	3:30 PM	395	Properties and Phase Equilibria for Fuels and Petrochemicals	PCC	W-102C
Tuesday	3:30 PM	396	Value-Added Chemicals from Natural Gas I	PCC	W-103A
Tuesday	3:30 PM	421	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels III*	PCC	W-103B
Wednesday	8:00 AM	453	Value-Added Chemicals from Natural Gas II	PCC	W-103A
Wednesday	12:30 PM	529	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels IV*	PCC	W-103B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Wednesday	3:30 PM	535	Poster Session: Fuels and Petrochemicals Division	PCC	Exhibit Hall E
Thursday	8:00 AM	599	Unconventional Oil and Natural Gas: Science & Technology Advancement	PCC	W-103A
Thursday	12:30 PM	635	Developments in Alternative Fuels and Enabling Technologies	PCC	W-103A

17 - Forest and Plant Bioproducts Division

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	24	Value-Added Uses of Industrial Coproducts and Natural Fibres in Sustainable Uses	PCC	N-228A
Monday	8:00 AM	63	Advances in Lignin Degradation Strategies	PCC	N-228A
Monday	12:30 PM	121	Lignin for Sustainable Industrial Uses	PCC	N-228A
Tuesday	8:00 AM	254	Biochemical Conversion Processes in Forest/Plant Biomass Biorefineries	PCC	N-228A
Tuesday	8:00 AM	255	Waste Valorization	PCC	N-228B
Tuesday	12:30 PM	318	Advanced Separations Processes in Bioprocessing and Biomaterials	PCC	N-227C
Tuesday	2:00 PM	358	Andrew Chase Award I (Invited Talks)	PCC	N-228A
Tuesday	3:30 PM	376	Andrew Chase Award II (Invited Talks)	PCC	N-228A
Wednesday	8:00 AM	451	Advanced Biomass Conversion Technologies	PCC	N-228B
Wednesday	8:00 AM	452	Biomass Characterization, Pretreatment, and Fractionation	PCC	N-228A
Wednesday	12:30 PM	501	Sustainable Biodegradable Polymers from Renewable & Waste Resources	PCC	N-228A
Wednesday	3:30 PM	534	Poster Session: Novel Products from Forest and Plant Biomass	PCC	Exhibit Hall E
Thursday	8:00 AM	598	Thermochemical Conversion of Biomass	PCC	N-228A
Thursday	12:30 PM	634	Chemical Modifications and Processing of Biomaterials I	PCC	N-228A
Thursday	3:30 PM	666	Chemical Modifications and Processing of Biomaterials II	PCC	N-228A
Thursday	3:30 PM	667	Division Plenary: Valorization of Waste plastics including Ocean Plastics along with Agro-residues/Forestry waste for Sustainable Biocomposites (Invited Talks)	PCC	N-229AB
Friday	8:00 AM	695	Process Intensification in Biorefineries	PCC	N-228A

18 - Liaison Functions

Day	Time	Session #	Session Title	Property	Room
Monday	9:00 AM	68	IACChE's James Y. Oldshue Lecture	PCC	North Ballroom 120D

18A - Miscellaneous

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	67	Fundamental Interactions of Microbes and Microbial Communities with Materials	PCC	N-222A
Monday	12:30 PM	125	Technologies for Understanding Microbial Interactions	PCC	N-222A
Monday	3:30 PM	733	How to Maintain Productivity in a Crisis	PCC	N-122B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Monday	4:45 PM	734	Optimize Your Postdoc – How to Leverage All the Opportunities Your Postdoc Offers You (#SpoilerAlert: There's Much More Than You Think!) to Advance in Your Career	PCC	N-122B
Tuesday	12:30 PM	322	Plenary Session: Turbulence and Mixing – In Memory of Professor Robert Brodkey I (Invited Talks)	PCC	N-222C
Tuesday	3:30 PM	399	Plenary Session: Turbulence and Mixing – In Memory of Professor Robert Brodkey II (Invited Talks)	PCC	N-222C

18B - Public Affairs and Information Committee (PAIC)

Day	Time	Session #	Session Title	Property	Room
Monday	1:30 PM	158	Chemical Engineering Policy (WISE) Award Recipient Talks (Invited Talks)	PCC	N-127A
Monday	3:30 PM	197	Climate Solutions Policy Initiative (CSPI)	PCC	N-127A

18C - Young Professionals Committee (YPC)

Day	Time	Session #	Session Title	Property	Room
Sunday	10:00 AM	1	Workshop: Career Planning for Prospective Faculty*	PCC	N-227C
Monday	8:00 AM	26	Science Communication Session	PCC	N-227A
Monday	8:00 AM	69	Undergraduate Research Presentations - Chemicals, Biotechnology, and Environment	PCC	N-231C
Monday	12:30 PM	126	Undergraduate Research Presentations - Energy, Materials, and Petrochemicals	PCC	N-231C
Monday	3:30 PM	198	Transitioning from Your Academic Career to Your Future as a Professional (Panel Discussion)	PCC	N-231C
Tuesday	12:30 PM	321	Three Minute Thesis (3MT®) Competition	PCC	N-231A
Tuesday	3:30 PM	400	AIChE Management Award Recipient Presentation Session: Nuclear Energy in a Sustainable World*	PCC	N-229AB

18D - Publication Committee

Day	Time	Session #	Session Title	Property	Room
Tuesday	3:30 PM	398	AIChE Journal Futures: New Directions in Chemical Engineering Research (Invited Talks)	PCC	N-224AB

18E - Awards Committee

Day	Time	Session #	Session Title	Property	Room
Monday	11:15 AM	94	2022 Danckwerts Lecture	PCC	North Ballroom 120D
Tuesday	11:15 AM	290	Andreas Acrivos Award for Professional Progress in Chemical Engineering Lecture	PCC	North Ballroom 120D
Tuesday	6:15 PM	424	SBE's James E. Bailey Award Lecture	PCC	North Ballroom 120D
Wednesday	11:15 AM	475	John M. Prausnitz AIChE Institute Lecture	PCC	North Ballroom 120D
Wednesday	6:15 PM	578	William R. Schowalter Lecture	PCC	North Ballroom 120D

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AIChEvents app.

2022 TECHNICAL PROGRAM GRID

18J - Research and New Technology Committee (RANTC)

Day	Time	Session #	Session Title	Property	Room
Sunday	3:00 PM	3	Discussing the 2022 NASEM Report: New Directions for Chemical Engineering	PCC	N-124AB

18K - Keynotes and Plenaries

Day	Time	Session #	Session Title	Property	Room
Monday	11:00 AM	93	Powering the Future: Panel Discussion	PCC	N-124AB

18L - International Committee

Day	Time	Session #	Session Title	Property	Room
Wednesday	12:30 PM	504	Emerging Junior Investigator Open Innovation Forum (Invited Talks)	PCC	N-228B
Wednesday	3:30 PM	557	KICHe-US Chapter Open Forum (Invited Talks)	PCC	N-228B

20 - Catalysis and Reaction Engineering Division

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	4	A Celebration of H. Scott Fogler's Life (Invited Talks)	PCC	N-129AB
Sunday	3:30 PM	6	In Honor of Norbert Kruse's Birthday (Invited Talks)	PCC	N-127B
Monday	8:00 AM	40	25th Anniversary of The Catalysis and Reaction Engineering Division I (Invited Talks)	PCC	N-129AB
Monday	12:30 PM	96	25th Anniversary of The Catalysis and Reaction Engineering Division II (Invited Talks)	PCC	N-129AB
Monday	3:30 PM	175	25th Anniversary of The Catalysis and Reaction Engineering Division III (Invited Talks)	PCC	N-129AB
Tuesday	8:00 AM	231	In Honor of the 2020 R.H. Wilhelm Award Winner I (Invited Talks)	PCC	N-127A
Tuesday	8:00 AM	232	Pioneers of Catalysis and Reaction Engineering (Invited Talks)	PCC	N-127B
Tuesday	12:30 PM	295	In Honor of the 2020 R.H. Wilhelm Award Winner II (Invited Talks)	PCC	N-127A
Tuesday	12:30 PM	296	In Honor of Vemuri Balakotaiah's Birthday (Invited Talks)	PCC	N-127B
Tuesday	3:30 PM	380	In Honor of the 2021 CRE Practice Award Winner (Invited Talks)	PCC	N-127A
Tuesday	3:30 PM	381	In Honor of the 2022 CRE Early Career Investigator Award winner (Invited Talks)	PCC	N-127B
Wednesday	8:00 AM	429	Mid Career Researchers in Catalysis and Reaction Engineering Recognition Symposium (Invited Talks)	PCC	N-127B
Wednesday	9:00 AM	428	Next Generation of CRE: a Professional Development Panel	PCC	N-127A
Wednesday	12:30 PM	479	In Honor of Mark Barteau's Birthday (Invited Talks)	PCC	N-127B
Wednesday	3:30 PM	532	Poster Session: Catalysis and Reaction Engineering (CRE) Division	PCC	Exhibit Hall E

20A - Catalysis

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	7	Microporous and Mesoporous Materials I: Catalytic Sites	PCC	N-128A
Monday	8:00 AM	41	Catalyst Design, Synthesis, and Characterization I: Dilute alloys	PCC	N-127C
Monday	8:00 AM	42	Environmental Catalysis I: Applied Catalysis for Emissions Control	PCC	N-227B

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

This program is as of October 6, 2022. An up-to-date program is available at aiche.org/annual and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Monday	8:00 AM	43	Fundamentals of Catalysis and Surface Science I: Hydrocarbon conversion chemistry	PCC	N-128B
Monday	8:00 AM	44	Microporous and Mesoporous Materials II: Material Design	PCC	N-128A
Monday	8:00 AM	52	Electrochemical Advances to Enable Efficient Oxygen, Hydrogen and Water Reactions I*	PCC	N-232C
Monday	12:30 PM	97	Catalysis in Liquid Media I: Catalysis for Biomass Conversion in Liquid Phase	PCC	N-127B
Monday	12:30 PM	98	Catalyst Design, Synthesis, and Characterization II: Dynamics and stability	PCC	N-127C
Monday	12:30 PM	99	Environmental Catalysis II: Fundamental Catalysis	PCC	N-227B
Monday	12:30 PM	100	Fundamentals of Catalysis and Surface Science II: Zeolites and acid catalysis	PCC	N-128B
Monday	12:30 PM	101	Microporous and Mesoporous Materials III: Structure	PCC	N-128A
Monday	12:30 PM	149	Novel Approaches to CO ₂ Utilization I*	PCC	N-226C
Monday	3:30 PM	176	Catalysis in Liquid Media II: Impact of Liquid Phase on Adsorption and Conversion in Catalysis	PCC	N-127B
Monday	3:30 PM	177	Catalyst Design, Synthesis, and Characterization III: Structure/activity relationships	PCC	N-127C
Monday	3:30 PM	178	Environmental Catalysis III: Emerging Catalytic Technologies	PCC	N-227B
Monday	3:30 PM	179	Fundamentals of Catalysis and Surface Science III: Kinetics of surface reactions	PCC	N-128B
Monday	3:30 PM	190	Electrochemical Advances to Enable Efficient Oxygen, Hydrogen and Water Reactions II*	PCC	N-232C
Monday	3:30 PM	220	Plasma Catalysis*	PCC	N-227A
Tuesday	8:00 AM	228	Catalyst Design, Synthesis, and Characterization IV: Zeolites	PCC	N-127C
Tuesday	8:00 AM	229	Catalytic Upcycling of Waste Plastics I: Focus on Commodity Plastic Waste	PCC	N-128A
Tuesday	8:00 AM	230	Fundamentals of Catalysis and Surface Science IV: Model catalytic surfaces	PCC	N-128B
Tuesday	8:00 AM	264	Synthesis and Application of Inorganic Materials I: Synthesis*	PCC	N-122A
Tuesday	12:30 PM	292	Catalyst Design, Synthesis, and Characterization V: Novel Catalysts	PCC	N-127C
Tuesday	12:30 PM	293	Catalytic Upcycling of Waste Plastics II: Focus on Commodity Plastic Waste and Beyond	PCC	N-128A
Tuesday	12:30 PM	294	Fundamentals of Catalysis and Surface Science V: Electrocatalysis and photocatalysis	PCC	N-128B
Tuesday	12:30 PM	328	Synthesis and Application of Inorganic Materials II: Applications*	PCC	N-122A
Tuesday	3:30 PM	377	Catalyst Design, Synthesis, and Characterization VI: Structure/activity relationships II	PCC	N-127C
Tuesday	3:30 PM	378	Fundamentals of Catalysis and Surface Science VI: Oxides and metal-support interactions	PCC	N-128B
Tuesday	3:30 PM	415	Fuel and Energy Decarbonization*	PCC	N-226C
Wednesday	8:00 AM	425	Biomass Conversion I: Hydrodeoxygenation	PCC	N-128A
Wednesday	8:00 AM	426	Data Science & Machine Learning Approaches to Catalysis I: Interpretable and Theory-Guided Machine Learning For Catalysis Design and Understanding	PCC	N-128B
Wednesday	8:00 AM	427	Electrocatalysis I: Experimental and Theory	PCC	N-127C

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Wednesday	8:00 AM	439	Electrochemistry & Electrochemical Engineering for Environmental & Sustainability Applications*	PCC	N-231A
Wednesday	12:30 PM	476	Biomass Conversion II: Carbon-Carbon Coupling & Redox Chemistry	PCC	N-128A
Wednesday	12:30 PM	477	Data Science & Machine Learning Approaches to Catalysis II: AI-Accelerated Modeling of Catalysts and Materials	PCC	N-128B
Wednesday	12:30 PM	478	Electrocatalysis II: Catalyst and Characterization	PCC	N-127C
Wednesday	3:30 PM	532	Poster Session: Catalysis and Reaction Engineering (CRE) Division*	PCC	Exhibit Hall E
Thursday	8:00 AM	580	Biomass Conversion III: Biomass Processing & Sugar Chemistry	PCC	N-128A
Thursday	8:00 AM	581	Catalysis on Low Dimensional Materials : 2D Catalysts	PCC	N-127A
Thursday	8:00 AM	582	Data Science & Machine Learning Approaches to Catalysis III: Applications of Machine Learning to Heterogeneous Catalysis: From Porous Materials to Cluster Catalysis	PCC	N-128B
Thursday	8:00 AM	583	Electrocatalysis III: Fundamental	PCC	N-127C
Thursday	8:00 AM	589	Interfacial Phenomena in Electrochemical and Electrokinetic Systems*	PCC	N-232C
Thursday	12:30 PM	617	Catalysis on Low Dimensional Materials II: Single Atom Catalysts	PCC	N-127A
Thursday	12:30 PM	618	CO2 Upgrading I: Thermocatalytic Approaches to the Production of Fuels and Chemicals	PCC	N-128A
Thursday	12:30 PM	619	Electrocatalysis IV: Modeling, Kinetics, and Characterization	PCC	N-127C
Thursday	3:30 PM	651	CO2 Upgrading II: From Fundamental to Applied CO2 Electrocatalysis I	PCC	N-128A
Thursday	3:30 PM	652	Homogeneous Catalysis	PCC	N-127B
Thursday	3:30 PM	653	Nitrogen Chemistry: Electrocatalytic N2 reduction	PCC	N-127C
Thursday	3:30 PM	655	Technology Transfer and Industrial-Academic Interfaces	PCC	N-127A
Thursday	3:30 PM	679	Chemical and Catalytic Conversions and Processes for Renewable Feedstocks *	PCC	N-226B
Friday	8:00 AM	682	CO2 Upgrading III: From Fundamental to Applied CO2 Electrocatalysis II	PCC	N-128A
Friday	8:00 AM	683	Hydrocarbon Conversion I: Nonoxidative processes for hydrocarbon conversion	PCC	N-127A
Friday	8:00 AM	684	New Developments in Computational Catalysis: Efficiency and Automation	PCC	N-127B
Friday	8:00 AM	685	Nitrogen Chemistry: Thermal/photo/plasma N2 reduction	PCC	N-127C
Friday	12:30 PM	707	CO2 Upgrading IV: Photo/Reduction, Hydrogenation, and Dual Capture/Conversion Systems	PCC	N-128A
Friday	12:30 PM	708	Hydrocarbon Conversion II: Oxidative processes for hydrocarbon conversion	PCC	N-127A
Friday	12:30 PM	709	New Developments in Computational Catalysis: Physics-Based Methods	PCC	N-127B
Friday	12:30 PM	710	Nitrogen Chemistry: Nitrate and ammonia chemistry	PCC	N-127C

20B - Reaction Engineering

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	5	Dynamic and Transient Reactor Operation	PCC	N-127C
Sunday	3:30 PM	8	Microreaction Engineering	PCC	N-128B
Monday	8:00 AM	45	Multi-Scale Modeling	PCC	N-127B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Monday	3:30 PM	180	Reaction Path Analysis	PCC	N-128A
Tuesday	8:00 AM	275	Process Intensification - Novel Reactors*	PCC	N-222A
Tuesday	3:30 PM	379	Green Chemical Reaction Engineering for Sustainability	PCC	N-128A
Tuesday	3:30 PM	382	Multiphase & Liquid Phase Reaction Engineering	PCC	N-223
Wednesday	8:00 AM	430	Modeling and Analysis of Chemical Reactors I	PCC	N-223
Wednesday	8:00 AM	455	Process Intensification and Modular Manufacturing: Intensified Reaction and Separation Processes*	PCC	N-221B
Wednesday	12:30 PM	481	Modeling and Analysis of Chemical Reactors II	PCC	N-223
Wednesday	3:30 PM	532	Poster Session: Catalysis and Reaction Engineering (CRE) Division*	PCC	Exhibit Hall E
Thursday	8:00 AM	584	Reaction Chemistry and Engineering I	PCC	N-127B
Thursday	12:30 PM	620	Pyrolysis of Biomass	PCC	N-128B
Thursday	12:30 PM	621	Reaction Chemistry & Engineering II	PCC	N-127B
Thursday	3:30 PM	654	Reaction Engineering and Kinetics for Combustion, Pyrolysis & Emissions	PCC	N-128B
Friday	8:00 AM	686	Reaction Engineering in Pharmaceuticals and Fine Chemicals	PCC	N-128B

21 - Computational Molecular Science and Engineering Forum					
Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	9	Applications of Molecular Modeling to Study Interfacial Phenomena I	PCC	N-222B
Monday	8:00 AM	46	Applications of Molecular Modeling to Study Interfacial Phenomena II	PCC	N-222B
Monday	12:30 PM	103	Recent Advances in Molecular Simulation Methods	PCC	N-222B
Monday	3:30 PM	181	Recent Advances in Molecular Modeling of Interfacial Thermodynamics and Dynamics	PCC	N-222B
Tuesday	8:00 AM	233	Recent Advances in Multiscale Methodologies	PCC	N-222B
Tuesday	12:30 PM	297	Spotlights in Thermodynamics and Computational Molecular Science (Invited Talks)	PCC	N-224AB
Tuesday	3:30 PM	360	Poster Session: Computational Molecular Science and Engineering Forum	PCC	Exhibit Hall E
Tuesday	3:30 PM	383	Honorary sessions for Keith Gubbins' 85th birthday (Invited Only)	PCC	N-222B
Tuesday	3:30 PM	418	Interfacial Systems for Energy Application: Modeling and Simulation*	PCC	N-227A
Wednesday	8:00 AM	426	Data Science & Machine Learning Approaches to Catalysis I: Interpretable and Theory-Guided Machine Learning For Catalysis Design and Understanding*	PCC	N-128B
Wednesday	8:00 AM	431	Practical Applications of Computational Chemistry and Molecular Simulation for Complex Fluids and Phase Behavior	PCC	N-222B
Wednesday	12:30 PM	482	Practical Applications of Computational Chemistry and Molecular Simulation for Solvents and Inorganic Materials	PCC	N-222B
Wednesday	3:30 PM	541	Plenary Session: Computational Molecular Science and Engineering Forum (Invited Talks)	PCC	N-224AB
Thursday	8:00 AM	585	Practical Applications of Computational Chemistry and Molecular Simulation for Polymers and Biological Systems	PCC	N-222B
Thursday	12:30 PM	622	Machine Learning for Soft Materials I	PCC	N-222B
Thursday	3:30 PM	656	Machine Learning for Soft Materials II	PCC	N-222B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Friday	8:00 AM	687	Software Engineering in and for the Molecular Sciences	PCC	N-222B
Friday	12:30 PM	711	The Industrial Fluid Properties Simulation Challenge	PCC	N-222B

22 - Nanoscale Science and Engineering Forum

Day	Time	Session #	Session Title	Property	Room
Monday	8:30 AM	76	Nanoscale Science and Engineering Forum Division Plenary	PCC	W-104B
Tuesday	3:30 PM	368	Poster Session: Nanoscale Science and Engineering Forum	PCC	Exhibit Hall E
Tuesday	3:30 PM	369	Poster Session: NSEF Graduate Student Poster Competition	PCC	Exhibit Hall E
Wednesday	8:00 AM	458	Nanoscale Science and Engineering Forum I (All Papers)	PCC	W-104B
Wednesday	12:30 PM	510	Nanoscale Science and Engineering Forum II (All Papers)	PCC	W-104B

22A - Carbon Nanomaterials

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	132	Carbon Nanomaterials I: Dispersion, Surface Structure, and Biointeractions	PCC	W-104B
Monday	3:30 PM	201	Carbon Nanomaterials II: Dispersion, Surface Structure, and Biointeractions	PCC	W-104B
Tuesday	8:00 AM	265	Area Plenary: Carbon Nanomaterials (Invited Talks)	PCC	W-104B
Tuesday	12:30 PM	329	Carbon Nanomaterials: Graduate Student Award Session	PCC	W-104B

22B - Bionanotechnology

Day	Time	Session #	Session Title	Property	Room
Tuesday	12:30 PM	331	Nanoparticle Drug Delivery Systems	PCC	W-104A
Wednesday	8:00 AM	457	Area Plenary: Bionanotechnology (Invited Talks)	PCC	W-104A
Wednesday	12:30 PM	509	Bionanotechnology Graduate Student Award Session	PCC	W-104A
Wednesday	3:30 PM	563	Nanotechnology approaches to diagnostics, implants, templating and assembly	PCC	W-104A

22C - Nanomaterials for Energy Applications

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	133	Nanomaterials for Energy Storage	PCC	W-104A
Monday	3:30 PM	202	Nanomaterials for Energy Conversion	PCC	W-104A
Tuesday	8:00 AM	266	Plenary Session for Nanomaterials for Energy Applications (Invited Talks)	PCC	W-104A
Tuesday	12:30 PM	330	Nanomaterials for General Electrochemical Phenomena	PCC	W-105C

23 - Sustainable Engineering Forum

Day	Time	Session #	Session Title	Property	Room
Tuesday	3:30 PM	397	Integrated Process Engineering and Economic Analysis*	PCC	N-228B
Wednesday	8:00 AM	470	Sustainable Engineering Forum Plenary (Invited Talks)	PCC	N-224AB

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Wednesday	12:30 PM	501	Sustainable Biodegradable Polymers from Renewable & Waste Resources *	PCC	N-228A
-----------	----------	-----	---	-----	--------

23A - Sustainability Science and Engineering

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	86	Big Data and Analytics for Sustainability	PCC	N-226A
Monday	12:30 PM	151	Sustainable Management and Uses of Post-Consumer Materials and Waste	PCC	N-226A
Monday	3:30 PM	216	Green Chemistry and Engineering-I	PCC	N-226A
Tuesday	12:30 PM	323	Leadership and Management of Sustainable Solutions in Industry*	PCC	W-102B
Tuesday	12:30 PM	346	The Food-Energy-Water Nexus	PCC	N-226A
Wednesday	12:30 PM	496	Sustainable Fuel from Renewable Resources*	PCC	N-225B
Wednesday	12:30 PM	525	Process Design: Innovation for Sustainability	PCC	N-226A
Wednesday	3:30 PM	538	Poster Session: Sustainability and Sustainable Biorefineries*	PCC	Exhibit Hall E
Thursday	8:00 AM	613	Advances in Life Cycle Assessment	PCC	N-226A
Thursday	12:30 PM	648	Climate Change and Engineering Sustainability	PCC	N-226A
Thursday	3:30 PM	657	Applied Math for Energy and Environmental Applications*	PCC	W-101B
Thursday	3:30 PM	680	Resilient and Sustainable Supply Chains and Product Systems	PCC	N-226A

23B - Sustainable Biorefineries

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	25	Advances in Biofuels Production and Alternative Fuels I*	PCC	W-103A
Sunday	3:30 PM	37	Reactor Engineering for Biomass Feedstocks	PCC	N-226B
Monday	8:00 AM	64	Advances in Biofuels Production and Alternative Fuels II*	PCC	W-103A
Monday	12:30 PM	150	Sustainable Biorefineries Plenary Session (Invited Talks)	PCC	N-226B
Monday	3:30 PM	166	Poster Session: Food and Bioprocess Engineering*	PCC	Exhibit Hall E
Monday	3:30 PM	195	Integrated Biorefineries: Technologies and TEA/LCA*	PCC	W-103A
Monday	3:30 PM	215	Feedstock Conversion Interface Consortium – Understanding Feedstock Variability to Enable Next Generation Biorefineries (Invited Talks)	PCC	N-226B
Tuesday	8:00 AM	282	Value-Added Biorefinery Co-Products	PCC	N-226B
Tuesday	12:30 PM	344	Biofuels Production: Design, Simulation, and Economic Analysis	PCC	N-226B
Tuesday	3:30 PM	414	Feedstock Logistics for Biorefineries	PCC	N-226B
Wednesday	12:30 PM	523	Advances in Algae Cultivation, Conversion and Products	PCC	N-226B
Wednesday	3:30 PM	538	Poster Session: Sustainability and Sustainable Biorefineries	PCC	Exhibit Hall E
Wednesday	3:30 PM	554	Biotechnological Production of Food and Feed Ingredients*	PCC	N-126B
Thursday	8:00 AM	614	Biological Conversions and Processes for Renewable Feedstocks	PCC	N-226B
Thursday	12:30 PM	650	Life Cycle Analysis of Bio-Based Fuels, Energy, and Chemicals	PCC	N-226B
Thursday	3:30 PM	679	Chemical and Catalytic Conversions and Processes for Renewable Feedstocks	PCC	N-226B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHevents app.

2022 TECHNICAL PROGRAM GRID

23C - Sustainable Energy

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	36	Design, Analysis, and Optimization of Sustainable Energy Systems and Supply Chains I	PCC	N-226C
Monday	8:00 AM	65	Developments in Electrochemical Reactors, Fuel Cells, and Electrolyzers I*	PCC	W-102C
Monday	8:00 AM	87	Design, Analysis, and Optimization of Sustainable Energy Systems and Supply Chains II	PCC	N-226C
Monday	12:30 PM	149	Novel Approaches to CO2 Utilization I	PCC	N-226C
Monday	3:30 PM	217	Novel Approaches to CO2 Utilization II	PCC	N-226C
Tuesday	8:00 AM	281	Concentrated Solar Power Generation and Chemical Processing I	PCC	N-226C
Tuesday	8:00 AM	288	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels I*	PCC	W-103B
Tuesday	12:30 PM	323	Leadership and Management of Sustainable Solutions in Industry*	PCC	W-102B
Tuesday	12:30 PM	345	Concentrated Solar Power Generation and Chemical Processing II	PCC	N-226C
Tuesday	12:30 PM	353	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels II*	PCC	W-103B
Tuesday	3:30 PM	413	Engineering Geologic Carbon Dioxide Storage Systems	PCC	N-226A
Tuesday	3:30 PM	415	Fuel and Energy Decarbonization	PCC	N-226C
Tuesday	3:30 PM	421	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels III*	PCC	W-103B
Wednesday	12:30 PM	524	Advances in Clean Energy R&D (Invited Talks)	PCC	N-226C
Wednesday	12:30 PM	527	Interfacial Chemical Conversion*	PCC	N-227A
Wednesday	12:30 PM	529	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels IV*	PCC	W-103B
Wednesday	3:30 PM	538	Poster Session: Sustainability and Sustainable Biorefineries*	PCC	Exhibit Hall E
Thursday	8:00 AM	615	Policy and Sustainability	PCC	N-226C
Thursday	12:30 PM	635	Developments in Alternative Fuels and Enabling Technologies*	PCC	W-103A
Thursday	12:30 PM	649	CO2 Capture for Power Generation	PCC	N-226C
Thursday	3:30 PM	657	Applied Math for Energy and Environmental Applications*	PCC	W-101B
Thursday	3:30 PM	681	Sustainable Energy: Generation and Storage	PCC	N-226C

24 - Chemical Engineering & the Law Forum

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	102	Intellectual Property for Practicing Engineers: Patents and Trade Secrets	PCC	N-225B

26 - Pharmaceutical Discovery, Development and Manufacturing Forum

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	32	Applied Formulation Design in Drug Product	PCC	N-123
Sunday	3:30 PM	33	Predictive Scale-Up/Scale-Down for Production of Pharmaceuticals and Biopharmaceuticals I	PCC	N-122C
Monday	8:00 AM	81	Enabling Technologies: Drug Substance and Drug Product Manufacturing	PCC	N-123
Monday	8:00 AM	82	Predictive Scale-Up/Scale-Down for Production of Pharmaceuticals and Biopharmaceuticals II	PCC	N-122C

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Monday	12:30 PM	138	Control Strategies in Pharmaceutical Development and Manufacturing I	PCC	N-122C
Monday	12:30 PM	139	Enabling Technologies: Progress in Tools and Technologies	PCC	N-123
Monday	3:30 PM	172	Poster Session: Pharmaceutical Discovery Development and Manufacturing (PD2M)	PCC	Exhibit Hall E
Monday	3:30 PM	207	Control Strategies in Pharmaceutical Development and Manufacturing II	PCC	N-122C
Monday	3:30 PM	208	Enabling Technologies: Mechanistic and statistical modeling	PCC	N-123
Tuesday	8:00 AM	272	Continuous Processing in Drug Substance: Modelling & Simulation	PCC	N-123
Tuesday	8:00 AM	273	Facilities of the Future (Invited Talks)	PCC	N-122C
Tuesday	12:30 PM	336	Continuous Processing in Drug Substance: Advancements in Industry	PCC	N-123
Tuesday	12:30 PM	337	Integrated Product and Process Design with Pharmaceutical Applications I	PCC	N-122C
Tuesday	1:00 PM	357	Meet the Industry Candidates Poster Session: Pharmaceutical Discovery, Development and Manufacturing Forum*	PCC	Exhibit Hall E
Tuesday	3:30 PM	408	Particle Technology in Product Design and Manufacturing*	PCC	W-106A
Tuesday	3:30 PM	410	Continuous Processing in Drug Substance and Drug Product: Integrated Processes	PCC	N-123
Tuesday	3:30 PM	411	Integrated Product and Process Design with Pharmaceutical Applications II	PCC	N-122C
Wednesday	8:00 AM	463	Plenary Session: Pharmaceutical Discovery, Development and Manufacturing Forum (Invited Talks)	PCC	N-124AB
Wednesday	12:30 PM	513	Advances in New Modalities: Predictive Modeling Technologies	PCC	N-123
Wednesday	12:30 PM	514	Panel Session: Pre-competitive Collaborations Through The Enabling Technologies Consortium (ETC)	PCC	N-124AB
Wednesday	12:30 PM	515	Pharma 4.0 (Advanced Controls, Process Automation, Data Analytics, etc.) in Drug Substance and Drug Product I	PCC	N-122C
Wednesday	3:30 PM	565	Advances in Drug Discovery Processes (including HTE): Advanced Technology Approaches to Maximize Public Health Impacts	PCC	N-127A
Wednesday	3:30 PM	566	Advances in New Modalities: Biologics and Large Molecules	PCC	N-123
Wednesday	3:30 PM	567	Pharma 4.0 (Advanced Controls, Process Automation, Data Analytics, etc.) in Drug Substance and Drug Product II	PCC	N-122C
Thursday	8:00 AM	605	Advances in New Modalities: Peptides, Nucleic acids	PCC	N-123
Thursday	8:00 AM	606	Computational Solid State Pharmaceuticals I	PCC	N-122C
Thursday	8:00 AM	612	Transformation from Batch to Continuous Processing in Bioseparations *	PCC	N-131B
Thursday	12:30 PM	640	Advances in Drug Discovery Processes (including HTE): Protein Engineering Approaches with Target Therapeutic Applications	PCC	N-123
Thursday	12:30 PM	641	Computational solid state pharmaceuticals II	PCC	N-122C
Thursday	3:30 PM	672	Advancements in Particle Engineering and Material Sciences in Pharmaceutical Process Development I	PCC	N-123
Thursday	3:30 PM	673	Modeling solubility, dissolution, permeability and drug delivery	PCC	N-122C
Friday	8:00 AM	700	Advancements in Particle Engineering and Material Sciences in Pharmaceutical Process Development II	PCC	N-123
Friday	8:00 AM	701	Computational approaches to DoE and better process understanding	PCC	N-122C

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

POSTERSESSIONS - Poster Sessions					
Day	Time	Session #	Session Title	Property	Room
Sunday	1:00 PM	2	Meet the Faculty and Post-Doc Candidates Poster Session*	PCC	Exhibit Hall E
Monday	11:00 AM	225	MAC Eminent Engineers Awards Poster Session*	PCC	Exhibit Hall E
Monday	3:30 PM	162	Fluid Mechanics Poster Session*	PCC	Exhibit Hall E
Monday	3:30 PM	163	Poster Session: Interfacial Phenomena (Area 1C)*	PCC	Exhibit Hall E
Monday	3:30 PM	164	Poster Session: Bioengineering*	PCC	Exhibit Hall E
Monday	3:30 PM	165	Poster Session: Engineering Fundamentals in Life Science*	PCC	Exhibit Hall E
Monday	3:30 PM	166	Poster Session: Food and Bioprocess Engineering*	PCC	Exhibit Hall E
Monday	3:30 PM	167	Poster Session: Materials Engineering & Sciences (08A - Polymers)*	PCC	Exhibit Hall E
Monday	3:30 PM	168	Poster Session: Materials Engineering & Sciences (08B - Biomaterials)*	PCC	Exhibit Hall E
Monday	3:30 PM	169	Poster Session: Materials Engineering & Sciences (08D - Inorganic Materials)*	PCC	Exhibit Hall E
Monday	3:30 PM	170	Poster Session: Materials Engineering & Sciences (08E - Electronic and Photonic Materials)*	PCC	Exhibit Hall E
Monday	3:30 PM	171	Poster Session: Materials Engineering & Sciences (08F - Composite Materials)*	PCC	Exhibit Hall E
Monday	3:30 PM	172	Poster Session: Pharmaceutical Discovery Development and Manufacturing (PD2M)*	PCC	Exhibit Hall E
Monday	3:30 PM	173	General Poster Session	PCC	Exhibit Hall E
Tuesday	1:00 PM	356	Meet the Industry Candidates Poster Session: Particle Technology Forum*	PCC	Exhibit Hall E
Tuesday	1:00 PM	357	Meet the Industry Candidates Poster Session: Pharmaceutical Discovery, Development and Manufacturing Forum*	PCC	Exhibit Hall E
Tuesday	3:30 PM	360	Poster Session: Computational Molecular Science and Engineering Forum*	PCC	Exhibit Hall E
Tuesday	3:30 PM	361	Interactive Session: Applied Mathematics and Numerical Analysis*	PCC	Exhibit Hall E
Tuesday	3:30 PM	362	Interactive Session: Data and Information Systems*	PCC	Exhibit Hall E
Tuesday	3:30 PM	363	Interactive Session: Systems and Process Control*	PCC	Exhibit Hall E
Tuesday	3:30 PM	364	Interactive Session: Systems and Process Design*	PCC	Exhibit Hall E
Tuesday	3:30 PM	365	Interactive Session: Systems and Process Operations*	PCC	Exhibit Hall E
Tuesday	3:30 PM	366	Poster Session: Chemical Engineering Education*	PCC	Exhibit Hall E
Tuesday	3:30 PM	367	Poster Session: Thermodynamics and Transport Properties (Area 1A)*	PCC	Exhibit Hall E
Tuesday	3:30 PM	368	Poster Session: Nanoscale Science and Engineering Forum*	PCC	Exhibit Hall E
Tuesday	3:30 PM	369	Poster Session: NSEF Graduate Student Poster Competition*	PCC	Exhibit Hall E
Tuesday	3:30 PM	370	Poster Session: Bioseparations*	PCC	Exhibit Hall E
Tuesday	3:30 PM	371	Poster Session: Fundamentals and Applications of Adsorption and Ion Exchange*	PCC	Exhibit Hall E
Tuesday	3:30 PM	372	Poster Session: General Topics on Separations*	PCC	Exhibit Hall E
Tuesday	3:30 PM	373	Poster Session: Membrane Separations*	PCC	Exhibit Hall E
Tuesday	3:30 PM	374	Poster Session: Separations Division*	PCC	Exhibit Hall E
Tuesday	3:30 PM	375	General Poster Session in Sensors*	PCC	Exhibit Hall E
Wednesday	3:30 PM	532	Poster Session: Catalysis and Reaction Engineering (CRE) Division*	PCC	Exhibit Hall E

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

Wednesday	3:30 PM	533	Poster Session: Environmental Division*	PCC	Exhibit Hall E
Wednesday	3:30 PM	534	Poster Session: Novel Products from Forest and Plant Biomass*	PCC	Exhibit Hall E
Wednesday	3:30 PM	535	Poster Session: Fuels and Petrochemicals Division*	PCC	Exhibit Hall E
Wednesday	3:30 PM	536	Poster Session: Particle Technology Forum*	PCC	Exhibit Hall E
Wednesday	3:30 PM	537	Poster Session: Process Development*	PCC	Exhibit Hall E
Wednesday	3:30 PM	538	Poster Session: Sustainability and Sustainable Biorefineries*	PCC	Exhibit Hall E
Wednesday	3:30 PM	539	Poster Session: Waste Plastics*	PCC	Exhibit Hall E
Wednesday	3:30 PM	540	Poster Session: Transport and Energy Processes Division*	PCC	Exhibit Hall E

STW - Sponsored Technology Workshops

Day	Time	Session #	Session Title	Property	Room
Monday	3:30 PM	716	Beyond the Optimizer: Gurobi's Hidden Gem Features and Applications in the Chemical Industry	PCC	N-124AB

T1 - Meet the Candidates Poster Sessions

Day	Time	Session #	Session Title	Property	Room
Sunday	1:00 PM	2	Meet the Faculty and Post-Doc Candidates Poster Session	PCC	Exhibit Hall E
Tuesday	1:00 PM	356	Meet the Industry Candidates Poster Session: Particle Technology Forum	PCC	Exhibit Hall E
Tuesday	1:00 PM	357	Meet the Industry Candidates Poster Session: Pharmaceutical Discovery, Development and Manufacturing Forum	PCC	Exhibit Hall E

T2 - Entrepreneurship in Chemical Engineering

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	90	Entrepreneurship in Chemical Engineering (Invited Talks)	PCC	W-103B
Monday	10:45 AM	174	Panel: Supporting and Investing in early stage startups	PCC	W-103B
Monday	3:30 PM	95	Angel Investing in Chemical Startups: Putting Your Experience to Work	PCC	W-103B
Monday	4:45 PM	226	Topical Plenary: Venture Hour at the AIChE Annual	PCC	W-103B

T3 - Applications of Data Science to Molecules and Materials

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	11	Data-Driven and Hybrid Modeling for Decision Making*	PCC	W-101A
Sunday	3:30 PM	12	Data-Driven Dynamic Modeling, Estimation and Control I*	PCC	W-101B
Monday	8:00 AM	86	Big Data and Analytics for Sustainability*	PCC	N-226A
Monday	8:00 AM	88	Applications of Data Science to High Throughput Experimentation	PCC	N-230
Monday	12:30 PM	106	Data-Driven Dynamic Modeling, Estimation and Control II*	PCC	W-101B
Monday	12:30 PM	108	Computing and Data Science in ChE Education*	PCC	W-105C
Monday	12:30 PM	152	Applications of Data Science in Molecular Sciences I	PCC	N-230
Monday	12:30 PM	154	Machine Learning in Materials Discovery*	PCC	N-227A
Monday	3:30 PM	182	Data-Driven Dynamic Modeling, Estimation and Control III*	PCC	W-101B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AIChEEvents app.

2022 TECHNICAL PROGRAM GRID

Monday	3:30 PM	185	Data Science/Analytics for Process Applications*	PCC	W-101C
Monday	3:30 PM	218	Applications of Data Science in Molecular Sciences II	PCC	N-230
Tuesday	8:00 AM	283	Applications of Data Science in Catalysis and Reaction Engineering	PCC	N-230
Tuesday	8:00 AM	284	Big Data and Machine Learning to Advance Medicine*	PCC	N-126C
Tuesday	12:30 PM	347	Topical Plenary: Topical Conference in Molecular and Materials Data Science (Invited Talks)	PCC	N-124AB
Tuesday	3:30 PM	388	Data Science in Complex Fluids and Complex Flows*	PCC	N-232A
Tuesday	3:30 PM	416	Innovations in Methods of Data Science	PCC	N-125A
Wednesday	8:00 AM	426	Data Science & Machine Learning Approaches to Catalysis I: Interpretable and Theory-Guided Machine Learning For Catalysis Design and Understanding*	PCC	N-128B
Wednesday	8:00 AM	432	Advances in Machine Learning and Intelligent Systems I*	PCC	W-101A
Wednesday	12:30 PM	477	Data Science & Machine Learning Approaches to Catalysis II: AI-Accelerated Modeling of Catalysts and Materials*	PCC	N-128B
Wednesday	3:30 PM	543	Advances in Machine Learning and Intelligent Systems II*	PCC	W-102A
Wednesday	3:30 PM	572	Molecular and Data Science Modeling of Adsorption I*	PCC	N-131C
Thursday	8:00 AM	582	Data Science & Machine Learning Approaches to Catalysis III: Applications of Machine Learning to Heterogeneous Catalysis: From Porous Materials to Cluster Catalysis*	PCC	N-128B
Thursday	8:00 AM	610	Molecular and Data Science Modeling of Adsorption II*	PCC	N-131C
Thursday	12:30 PM	622	Machine Learning for Soft Materials I*	PCC	N-222B
Thursday	12:30 PM	624	Data-driven optimization*	PCC	W-101A
Thursday	3:30 PM	656	Machine Learning for Soft Materials II*	PCC	N-222B
Thursday	3:30 PM	675	Fundamentals, Big Data, Machine Learning and High-throughput screening for Bioseparations *	PCC	N-131B
Friday	8:00 AM	696	Accelerated Discovery of Inorganic Materials: High-Throughput Experiments, Modeling, and Data Science*	PCC	N-122A
Friday	8:00 AM	697	Data-Driven/Machine Learning-Enabled Design for Nanocomposites*	PCC	N-121B

T4 - Bridging the Skills Gap in Chemical Engineering

Day	Time	Session #	Session Title	Property	Room
Sunday	3:00 PM	3	Discussing the 2022 NASEM Report: New Directions for Chemical Engineering*	PCC	N-124AB
Monday	8:00 AM	26	Science Communication Session*	PCC	N-227A
Monday	8:00 AM	70	Financial basics for Corporate decision-making*	PCC	W-102B
Monday	11:00 AM	93	Powering the Future: Panel Discussion*	PCC	N-124AB
Monday	12:30 PM	127	Leading and Managing Industry-Academia Collaborations and Partnerships*	PCC	W-102B
Monday	3:30 PM	95	Angel Investing in Chemical Startups: Putting Your Experience to Work*	PCC	W-103B
Monday	3:30 PM	198	Transitioning from Your Academic Career to Your Future as a Professional (Panel Discussion)*	PCC	N-231C
Monday	3:30 PM	199	Role of Chemical Engineers in Non-Traditional Industries*	PCC	W-102B
Tuesday	3:30 PM	386	WIC Drop-in Mentoring*	PCC	N-232C

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

T5 - Material Interfaces as Energy Solutions

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	9	Applications of Molecular Modeling to Study Interfacial Phenomena I*	PCC	N-222B
Monday	8:00 AM	46	Applications of Molecular Modeling to Study Interfacial Phenomena II*	PCC	N-222B
Monday	12:30 PM	147	Frontiers in New Materials and Membranes for Bioseparations*	PCC	N-130
Monday	12:30 PM	154	Machine Learning in Materials Discovery	PCC	N-227A
Monday	3:30 PM	220	Plasma Catalysis	PCC	N-227A
Tuesday	8:00 AM	229	Catalytic Upcycling of Waste Plastics I: Focus on Commodity Plastic Waste*	PCC	N-128A
Tuesday	8:00 AM	263	Materials for Effective Energy Storage (Co-sponsored with Material Interfaces as Energy Solutions)*	PCC	N-227A
Tuesday	12:30 PM	349	Interfacial Systems for Energy Application: Experimental Validation	PCC	N-227A
Tuesday	3:30 PM	379	Green Chemical Reaction Engineering for Sustainability*	PCC	N-128A
Tuesday	3:30 PM	418	Interfacial Systems for Energy Application: Modeling and Simulation	PCC	N-227A
Wednesday	12:30 PM	527	Interfacial Chemical Conversion	PCC	N-227A
Wednesday	3:30 PM	559	Materials and Devices: From Energy Generation to Efficient Usage (Co-sponsored with Material Interfaces as Energy Solutions)*	PCC	N-122A
Wednesday	3:30 PM	574	Low Dimensional Materials	PCC	N-227A
Thursday	3:30 PM	681	Sustainable Energy: Generation and Storage *	PCC	N-226C

T6A - Next-Gen Manufacturing

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	39	Industry 4.0, Digital Twins, and Digital Transformation	PCC	N-221A
Monday	8:00 AM	91	Applied Artificial Intelligence, Big Data, and Data Analytics Methods for Next-Gen Manufacturing Efficiency I	PCC	N-221A
Monday	12:30 PM	156	Applied Artificial Intelligence, Big Data, and Data Analytics Methods for Next-Gen Manufacturing Efficiency II	PCC	N-221A
Monday	3:30 PM	222	Industrial Internet of Things (IIoT), Smart and Soft Sensors in Process Manufacturing and Beyond	PCC	N-221A
Tuesday	8:00 AM	273	Facilities of the Future (Invited Talks)*	PCC	N-122C
Tuesday	8:00 AM	286	Future of Manufacturing and Emerging Technologies	PCC	N-221A
Tuesday	12:30 PM	350	Modeling, Optimization, and Control in Next-Gen Manufacturing I	PCC	N-221A
Tuesday	3:30 PM	397	Integrated Process Engineering and Economic Analysis*	PCC	N-228B
Tuesday	3:30 PM	419	Cybersecurity and High-Performance Computing in Next-Gen Manufacturing	PCC	N-221B
Tuesday	3:30 PM	420	Modeling, Optimization, and Control in Next-Gen Manufacturing II	PCC	N-221A
Wednesday	8:00 AM	472	Next-Gen Manufacturing in Chemical and Energy Systems	PCC	N-221A
Wednesday	12:30 PM	528	Next-Gen Manufacturing in Pharma, Food, and Bioprocessing I	PCC	N-221A
Wednesday	3:30 PM	575	Next-Gen Manufacturing in Pharma, Food, and Bioprocessing II	PCC	N-221A

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

T6C - 3D Printing					
Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	38	3D Printing Fundamentals and Applications	PCC	N-221B
Monday	12:30 PM	155	3D Printing Novel Methods and Applications	PCC	N-221B
Monday	3:30 PM	221	3D Printing of Composites	PCC	N-221B
Tuesday	8:00 AM	285	3D Printing of Functional Materials	PCC	N-221B
Tuesday	12:30 PM	351	Polymers in Additive Manufacturing	PCC	N-221B

T7 - Regenerative Engineering Society					
Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	84	Regenerative Engineering Society I	PCC	N-121A
Monday	12:30 PM	142	Regenerative Engineering Society II	PCC	N-121A
Monday	3:30 PM	210	Regenerative Engineering Society III	PCC	N-121A

T9 - Sensors for Sustainability					
Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	92	Sensors and Monitoring for Health	PCC	N-231A
Monday	12:30 PM	157	Student Competition in Sensors (Sponsored)	PCC	N-231A
Monday	3:30 PM	223	Next-Gen Sensors	PCC	N-231A
Tuesday	8:00 AM	287	Field-Deployable Sensors	PCC	N-231A
Tuesday	12:30 PM	352	Topical Plenary: Environmental Analytical Technology: Sensor Applications in Sustainability (Invited Talks)	PCC	N-229AB
Tuesday	3:30 PM	375	General Poster Session in Sensors	PCC	Exhibit Hall E

TC - Engineering for Inclusion					
Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	50	Unconscious Bias	PCC	N-226B
Monday	9:00 AM	227	MAC Eminent Engineers Awards Ceremony Breakfast*	PCC	N-231B
Monday	3:30 PM	189	IDEAL Featured Session: A Conversation on Equity, Diversity, and Inclusion	PCC	N-231B

TCA - Minority Affairs Committee (MAC)					
Day	Time	Session #	Session Title	Property	Room
Monday	9:00 AM	227	MAC Eminent Engineers Awards Ceremony Breakfast	PCC	N-231B
Monday	11:00 AM	225	MAC Eminent Engineers Awards Poster Session	PCC	Exhibit Hall E

* This session is co-sponsored by one or more programming groups
 This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHevents app.

2022 TECHNICAL PROGRAM GRID

TCCB - Women in Chemical Engineering Committee (WIC)

Day	Time	Session #	Session Title	Property	Room
Tuesday	12:30 PM	306	Connecting the Dots in Industry (Invited Talks)*	PCC	N-232C
Tuesday	3:30 PM	386	WIC Drop-in Mentoring	PCC	N-232C

TCC - LGBTQ+ and Allies Community

Day	Time	Session #	Session Title	Property	Room
Tuesday	12:30 PM	304	LGBTQ+ & Allies Safe Zone Workshop	PCC	N-231B
Tuesday	3:30 PM	385	Best Practices for LGBTQ+ & Ally Resource Groups	PCC	N-231B

TCD - Disabilities Outreach & Inclusion Community (DORIC)

Day	Time	Session #	Session Title	Property	Room
Monday	12:30 PM	110	Academic Ableism and Education	PCC	N-231B

TCE - The Role of Intersectionality in Chemical Engineering

Day	Time	Session #	Session Title	Property	Room
Tuesday	8:00 AM	240	Allies and Advocates Training	PCC	N-231B
Wednesday	12:30 PM	488	The Science of Intersectionality	PCC	N-231B
Wednesday	3:30 PM	548	Step up! From bystander to action	PCC	N-231B

TDA - Green Process and Product Engineering

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	66	Efficient Processing of Lignin to Bioproducts and Biofuels	PCC	N-228B
Monday	12:30 PM	124	Materials for thermochemical and electrochemical Energy Storage	PCC	N-228B
Monday	3:30 PM	196	Ionic Liquids: Novel Separation, Catalytic reaction and Electrochemical Processes	PCC	N-228B
Tuesday	8:00 AM	257	Topical Plenary: Frontiers in Green Process and Product Engineering (Invited Talks)	PCC	N-229AB
Tuesday	12:30 PM	320	Breakthroughs in Sustainable Chemical Production and Process	PCC	N-228B
Tuesday	3:30 PM	397	Integrated Process Engineering and Economic Analysis	PCC	N-228B
Wednesday	8:00 AM	454	Conversion of plastic wastes to high value products	PCC	N-230
Wednesday	12:30 PM	501	Sustainable Biodegradable Polymers from Renewable & Waste Resources *	PCC	N-228A
Wednesday	12:30 PM	502	New processes for efficient CO2 capture and utilization under mild conditions	PCC	N-230

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

TDB - Process Intensification & Modular Chemical Processing

Day	Time	Session #	Session Title	Property	Room
Sunday	3:30 PM	35	Process Intensification – Novel Technologies for Carbon Capture and Carbon Recycling*	PCC	N-222A
Tuesday	8:00 AM	275	Process Intensification - Novel Reactors*	PCC	N-222A
Tuesday	12:30 PM	338	Process Intensification – Novel Reactors (Energy Focus)*	PCC	N-222A
Tuesday	3:30 PM	396	Value-Added Chemicals from Natural Gas I*	PCC	W-103A
Tuesday	3:30 PM	397	Integrated Process Engineering and Economic Analysis*	PCC	N-228B
Tuesday	3:30 PM	412	Process Intensification – Novel Integration Concepts*	PCC	N-222A
Wednesday	8:00 AM	453	Value-Added Chemicals from Natural Gas II*	PCC	W-103A
Wednesday	8:00 AM	455	Process Intensification and Modular Manufacturing: Intensified Reaction and Separation Processes	PCC	N-221B
Wednesday	12:30 PM	503	Process Intensification and Modular Manufacturing: Modeling and Simulation	PCC	N-221B

TF - Chemical Engineers in Medicine

Day	Time	Session #	Session Title	Property	Room
Monday	8:00 AM	89	Medical Devices	PCC	N-126C
Monday	12:30 PM	153	Chemical Engineering Principles Advancing Medicine I	PCC	N-126C
Monday	3:30 PM	219	Chemical Engineering Principles Advancing Medicine II	PCC	N-126C
Tuesday	8:00 AM	284	Big Data and Machine Learning to Advance Medicine	PCC	N-126C
Tuesday	12:30 PM	348	Pandemic Response and Public Health	PCC	N-126C
Tuesday	3:30 PM	417	Infection & Prevention, Epidemiology & Treatments, Diagnostic Approaches	PCC	N-126C
Wednesday	8:00 AM	471	Tissue Engineering, Bioprinting, and Regenerative Medicine	PCC	N-126C
Wednesday	12:30 PM	526	Engineering Cancer I: Mechanistic Studies	PCC	N-126C
Wednesday	3:30 PM	573	Engineering Cancer II: Therapy	PCC	N-126C
Thursday	8:00 AM	616	Engineering Cancer III: Devices for Diagnosis, Culturing, and Microenvironment Studies	PCC	N-126C

TH - Sustainable Pathways Toward Hydrogen and Synthetic Fuels

Day	Time	Session #	Session Title	Property	Room
Tuesday	8:00 AM	288	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels I	PCC	W-103B
Tuesday	12:30 PM	353	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels II	PCC	W-103B
Tuesday	3:30 PM	421	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels III	PCC	W-103B
Wednesday	12:30 PM	529	Sustainable Pathways to Clean Hydrogen and Synthetic Fuels IV	PCC	W-103B

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

This program is as of October 6, 2022. An up-to-date program is available at [aiche.org/annual](https://www.aiche.org/annual) and in the AICHEvents app.

2022 TECHNICAL PROGRAM GRID

TJ - Waste Plastics					
Day	Time	Session #	Session Title	Property	Room
Tuesday	3:30 PM	422	Plenary Session: Waste Plastics (Invited Talks)	PCC	N-124AB
Wednesday	8:00 AM	473	Recycling and Upcycling of Plastic Waste	PCC	N-121A
Wednesday	12:30 PM	530	Conversion of Waste Plastic into Liquid Fuels	PCC	N-121A
Wednesday	3:30 PM	539	Poster Session: Waste Plastics	PCC	Exhibit Hall E
Wednesday	3:30 PM	576	Analysis and Assessment for Solving the Plastic Waste Crisis	PCC	N-121A
Thursday	12:30 PM	629	Waste Plastic - Recycle, Reuse and Remediation Strategies*	PCC	N-225A
Thursday	3:30 PM	662	Waste Plastic - Recycle, Reuse and Remediation Strategies II*	PCC	N-225A

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

This program is as of October 6, 2022. An up-to-date program is available at aiche.org/annual and in the AICHEvents app.

See you Next Year!

2023 / AIChE
ANNUAL
MEETING

NOVEMBER 5 – 10, 2023
HYATT REGENCY ORLANDO

