



Sunday, 28 July			
8am	Workshop and Demo Prep JSB-258	10am	S218: Building Bonds: Fostering a Sense of Belonging in Large-Enrollment Chemistry Courses CP-139
8:30am	Experimental Chemistry: A hands-on laboratory-based course for non-majors JSB-218	10:15am	S278: Implementing Active Learning in the First Two Years of Chemistry Coursework CP-153
	ChemMatters: Building Curiosity and Encouraging Science Literacy JSB-108		S61: Engaging Students in Organic Chemistry CP-155
	Introduction to Integrating Green Chemistry and Sustainability in Undergraduate Teaching Laboratories JSB-114	11:45am	S77: Low Barrier Professional Development CP-183
	Activities to develop international standards for ethics in chemistry JSB-231	Lunch	S36: Assessment Instruments: Design, Development, and Evaluation CP-201
	Designing and implementing high-engagement collaborative group work activities in chemistry classrooms JSB-243	1pm	S91: Catalyzing Innovations in Chemistry Education Research: Harnessing the Power of Machine Learning and Generative Artificial Intelligence CP-208
	Peak Potential: Affordable Solutions for Instructing Electrochemical Techniques JSB-244		S177: Assessment and Measurement in Research and Practice CP-211
	Moving Students From Description to Explanation with VisChem JSB-347		S307: TA Training with Global Graduate Students CP-220
	Cultivating Inclusivity and Equity in the Classroom JSB-357		S25: General Chemistry Lab: Curriculum and Best Practices CP-222
			S223: Solutions to Success: First- and Second-year Initiatives and Programs to Support STEM Diversity CP-287
			S225: Innovative Assessments in Introductory Chemistry Courses: Introducing More Effective Ways to Determine What Your Students Know CP-297
			S109: Organic Chemistry for Non-Chemistry Majors JSB-203
			S0: General Papers JSB-213
			S267: Chemistry Education Research: Graduate Student Research Symposium JSB-321
			Collaborative Huddle Engaging Magnification: CHEM JSB-218
			Using Pipet Bulb Rockets to Introduce Stoichiometry JSB-208
			Assessment of Impacts of Green Chemistry Curriculum JSB-114
			It's All Fun and Games When Everyone Learns! JSB-231
			Teaching Essential Chemistry Content Through Demonstrations JSB-244
			Food in the Chemistry Class JSB-261M
			REAL Chemistry: Relevant, Equitable, Active Learning Courseware for General Chemistry JSB-357



Continued from **Sunday, 28 July**

2:30pm

Break

2:45pm

S306: The Post-Exam Classroom: Using Authentic Assessments to Build 21st-Century Skills
CP-103

S310: Professional Development for Pre-College Educators: Grants, Technology, and Resources within the Education Community
CP-111

S191: ACS-CES Award Symposium for Incorporation of Sustainability into Chemical Education
CP-114

S218: Building Bonds: Fostering a Sense of Belonging in Large-Enrollment Chemistry Courses
CP-139

S278: Implementing Active Learning in the First Two Years of Chemistry Coursework
CP-153

S61: Engaging Students in Organic Chemistry
CP-155

S32: Inclusive Practices for Unrepresented Groups in STEM
CP-179

S77: Low Barrier Professional Development
CP-183

S36: Assessment Instruments: Design, Development, and Evaluation
CP-201

S91: Catalyzing Innovations in Chemistry Education Research: Harnessing the Power of Machine Learning and Generative Artificial Intelligence
CP-208

S177: Assessment and Measurement in Research and Practice
CP-211

S307: TA Training with Global Graduate Students
CP-220

S25: General Chemistry Lab: Curriculum and Best Practices
CP-222

S223: Solutions to Success: First- and Second-year Initiatives and Programs to Support STEM Diversity
CP-287

S225: Innovative Assessments in Introductory Chemistry Courses: Introducing More Effective Ways to Determine What Your Students Know
CP-297

S237: Learning Chemistry Beyond the Traditional Classroom
JSB-203

S0: General Papers
JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Manipulatives for Chemistry: Helping Kids See
JSB-108

Building a kinetics unit plan using American Association of Chemistry Teachers (AACT) resources
JSB-244

5pm

Welcome to BCCE 2024
Singletary Center

5:30pm

Keynote

Monday, 29 July

7am

Breakfast
Champions Kitchen, inside Gatton Student Center

8am

Workshop Demo and Prep
JSB-258

8:30am

S86: Survival Skills 101: A Guide for Newer Teachers
CP-103

S88: Bridging the Gap Between Secondary and Higher Education Chemistry
CP-111

S242: Integrating Green Chemistry and Sustainability into Chemistry Education
CP-114

S218: Building Bonds: Fostering a Sense of Belonging in Large-Enrollment Chemistry Courses
CP-139

S214: Active Learning Strategies in Chemistry with Large Enrollment Lectures
CP-153

S61: Engaging Students in Organic Chemistry
CP-155

S32: Inclusive Practices for Unrepresented Groups in STEM
CP-179

S36: Assessment Instruments: Design, Development, and Evaluation
CP-201

S156: Educational Research in the Science Classroom
CP-208

S177: Assessment and Measurement in Research and Practice
CP-211



Continued from **Monday, 29 July**

S260: From Theory to Practice: Showcasing How CER Researchers Apply Theories and Methods for Inquiry
CP-220

S25: General Chemistry Lab: Curriculum and Best Practices
CP-222

S34: Activation Barriers to Well-being: Challenges and Approaches to Promoting Well-being for Students, Faculty, and Staff
CP-287

S199: Best Practices in Academic Advising and Mentoring
CP-297

S255: Biochemistry Education: Discussions of the Lecture Learning Environment
JSB-103

S241: ChemEd X Presents Demonstrations to Engage Your Students and Augment Student Learning
JSB-121

S237: Learning Chemistry Beyond the Traditional Classroom
JSB-203

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Centering High School Chemistry Class on Making Sense of Phenomena
JSB-218

Inclusive first day and syllabus tips
JSB-108

The POGIL Project Workshop: Fundamentals of POGIL
JSB-114

From pedagogical research to classroom implementation
JSB-231

Transforming Chemistry Education: The Power of Personification, Storytelling, and Inclusivity
JSB-243

Reimagining Introductory Chemistry Laboratory Curriculum: Skills-Based, Competency-Focused Lab Curriculum
JSB-337

Fueling Education Transformation: The Dynamic Chemistry of Community-Based Learning
JSB-347

Computational Chemistry in Your Learning Space
JSB-357

10am

Break

10:15am

S86: Survival Skills 101: A Guide for Newer Teachers
CP-103

S263: The Evolution of ALEKS Organic Chemistry
CP-111

S242: Integrating Green Chemistry and Sustainability into Chemistry Education
CP-114

S218: Building Bonds: Fostering a Sense of Belonging in Large-Enrollment Chemistry Courses
CP-139

S214: Active Learning Strategies in Chemistry with Large Enrollment Lectures
CP-153

S61: Engaging Students in Organic Chemistry
CP-155

S32: Inclusive Practices for Unrepresented Groups in STEM
CP-179

S82: Small Teaching - Making Modest but Powerful Changes to Improve Student Learning
CP-183

S36: Assessment Instruments: Design, Development, and Evaluation
CP-201

S156: Educational Research in the Science Classroom
CP-208

S132: The Theory and Practice of Analytical Chemistry In the Classroom
CP-211

S260: From Theory to Practice: Showcasing How CER Researchers Apply Theories and Methods for Inquiry
CP-220

S25: General Chemistry Lab: Curriculum and Best Practices
CP-222

S34: Activation Barriers to Well-being: Challenges and Approaches to Promoting Well-being for Students, Faculty, and Staff
CP-287

S255: Biochemistry Education: Discussions of the Lecture Learning Environment
JSB-103

S241: ChemEd X Presents Demonstrations to Engage Your Students and Augment Student Learning
JSB-121

S237: Learning Chemistry Beyond the Traditional Classroom
JSB-203

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Integrating Artificial Intelligence in Chemistry Education: Strategies for Enhancing Higher Ed Learning
JSB-108

Digital Learning Strategies for K-12 Chemistry Classrooms
JSB-243

11:45am

Lunch



Continued from **Monday, 29 July**

2pm

S103: Opportunities from AACT: Programs and Professional Learning
CP-111

S242: Integrating Green Chemistry and Sustainability into Chemistry Education
CP-114

S133: Active and Inquiry Learning in the Chemistry Teaching Laboratory
CP-139

S214: Active Learning Strategies in Chemistry with Large Enrollment Lectures
CP-153

S61: Engaging Students in Organic Chemistry
CP-155

S217: Cultivating Inclusivity and Equity in the Classroom
CP-179

S82: Small Teaching - Making Modest but Powerful Changes to Improve Student Learning
CP-183

S36: Assessment Instruments: Design, Development, and Evaluation
CP-201

S175: Reflections from Pandemic Teaching and Beyond: Caring for our Students While Learning to Care for Ourselves and Each Other
CP-208

S132: The Theory and Practice of Analytical Chemistry In the Classroom
CP-211

S260: From Theory to Practice: Showcasing How CER Researchers Apply Theories and Methods for Inquiry
CP-220

S25: General Chemistry Lab: Curriculum and Best Practices
CP-222

S34: Activation Barriers to Well-being: Challenges and Approaches to Promoting Well-being for Students, Faculty, and Staff
CP-287

S49: Cross-Course or Whole Curriculum Reform Efforts
CP-297

S255: Biochemistry Education: Discussions of the Lecture Learning Environment
JSB-103

S241: ChemEd X Presents Demonstrations to Engage Your Students and Augment Student Learning
JSB-121

S206: "Message In A Bottle": How Do We Reach Generation Z in Class?
JSB-203

S159: Beyond Open Educational Resources (OER): User Experience, Benefits, Challenges and Opportunities
JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Empowering Tomorrow's Molecule Innovators: Design Thinking, Sustainable Solar Cells, and Digital Molecule Making Workshop
JSB-218

Beyond canceling: Developing authentic proportional reasoning in chemistry
JSB-208

A Day in the Life of an Academic: Case Studies in Support of Your Diversity, Equity, Inclusion (DEI) and Belonging Work
JSB-108

A "Micro-Scale" Community of Practice for Promoting Student Engagement in General Chemistry: Discuss, Dream, Develop, and Practice
JSB-114

The POGIL Project Workshop: Real-world Context and POGIL
JSB-231

A Chemical Inquiry: Let's Master Equilibrium!
JSB-243

American Association of Chemistry Teachers (AACT) Resources for AP Chemistry
JSB-244

Foundations for Chemistry Education Research & Publications
JSB-347

Teaming up with undergraduate Learning Assistants (LAs) to foster active and inclusive chemistry learning environments
JSB-357

3:30pm

Break

3:45pm

S229: ELIPSS and Beyond: Celebrating the work and impact of 2023 James Flack Norris Awardees Renée Cole, Juliette Lantz, and Suzanne Ruder
CP-103

S66: Views from the Classrooms of Award Winning Chemistry Teachers
CP-111

S242: Integrating Green Chemistry and Sustainability into Chemistry Education
CP-114

S133: Active and Inquiry Learning in the Chemistry Teaching Laboratory
CP-139

S214: Active Learning Strategies in Chemistry with Large Enrollment Lectures
CP-153

S61: Engaging Students in Organic Chemistry
CP-155

S217: Cultivating Inclusivity and Equity in the Classroom
CP-179

S82: Small Teaching - Making Modest but Powerful Changes to Improve Student Learning
CP-183



Continued from **Monday, 29 July**

S258: Teaching and Learning in the AI Revolution
CP-201

S175: Reflections from Pandemic Teaching and Beyond: Caring for our Students While Learning to Care for Ourselves and Each Other
CP-208

S132: The Theory and Practice of Analytical Chemistry in the Classroom
CP-211

S45: 3D Printing in Chemical Education: Engaging Students and Creating Tools for Active Learning
CP-220

S47: Beyond Confirmatory Experiences: Teaching in the Chemistry Laboratory
CP-222

S34: Activation Barriers to Well-being: Challenges and Approaches to Promoting Well-being for Students, Faculty, and Staff
CP-287

S49: Cross-Course or Whole Curriculum Reform Efforts
CP-297

S255: Biochemistry Education: Discussions of the Lecture Learning Environment
JSB-103

S206: "Message In A Bottle": How Do We Reach Generation Z in Class?
JSB-203

S159: Beyond Open Educational Resources (OER): User Experience, Benefits, Challenges and Opportunities
JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Copper: Two Inquiries to Begin and End the School Year
JSB-243

Facilitating Lesson Plan Development for Chemistry Outreach Opportunities
JSB-244

Tuesday, 30 July

7am

Breakfast
Champions Kitchen, inside Gatton Student Center

8am

Workshop and Demo Prep
JSB-258

8:30am

S229: ELIPSS and Beyond: Celebrating the work and impact of 2023 James Flack Norris Awardees Renée Cole, Juliette Lantz, and Suzanne Ruder
CP-103

S66: Views from the Classrooms of Award Winning Chemistry Teachers
CP-111

S164: Inside the Division of Chemical Education
CP-139

S59: Engaging Students & Curriculum Development in Large Classes
CP-153

S61: Engaging Students in Organic Chemistry
CP-155

S83: Developing Mechanistic Reasoning in Organic Chemistry: Research and Practice
CP-179

S82: Small Teaching - Making Modest but Powerful Changes to Improve Student Learning
CP-183

S239: Exploration of Student-centered Assessments in Chemistry Education
CP-201

S233: Computers in Chemical Education
CP-208

S132: The Theory and Practice of Analytical Chemistry In the Classroom
CP-211

S75: Alternative Pathways in General Chemistry: Meeting the Needs of Varied Student Populations
CP-220

S47: Beyond Confirmatory Experiences: Teaching in the Chemistry Laboratory
CP-222

S114: Integrating Humanities into Chemistry Education
CP-287

S60: Promoting Global Collaboration in Chemistry Education: Insights from International Initiatives
CP-297

S254: Biochemistry Education: Discussions of the Laboratory Learning Environment
JSB-103

S21: Grading for Growth
JSB-121

S188: Process Oriented Guided Inquiry Learning (POGIL) in the Classroom and laboratory
JSB-203

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

A Tale of Two Platforms: Using Achieve and Smart Worksheets in Labs
JSB-218

Making the Most of the Syllabus: Centering Learning from the Start
JSB-108

An ACS Exams committee experience: Writing and editing exam items as well as considering partial credit assignment of incorrect responses in the writing process
JSB-114

LibreTexts: Building your OER textbook for your class
JSB-231

The POGIL Project Workshop: Introduction to POGIL Labs
JSB-243



Continued from **Tuesday, 30 July**

Art and Archaeology-Inspired Chemistry Labs and Activities

JSB-244

Real Intelligence (Still) Beats Artificial Intelligence: Engaging Students with Inquisitive Molecular Modeling

JSB-337

Summative rubric evaluation for the assessment of mechanism questions in the second-year organic chemistry course sequence

JSB-347

Backward-Design Your Laboratory Course

JSB-357

8:35am

S242: Integrating Green Chemistry and Sustainability into Chemistry Education

CP-114

10am

Break

10:15am

S229: ELIPSS and Beyond: Celebrating the work and impact of 2023 James Flack Norris Awardees Renée Cole, Juliette Lantz, and Suzanne Ruder

CP-103

S66: Views from the Classrooms of Award Winning Chemistry Teachers

CP-111

S242: Integrating Green Chemistry and Sustainability into Chemistry Education

CP-114

S164: Inside the Division of Chemical Education

CP-139

S59: Engaging Students & Curriculum Development in Large Classes

CP-153

S83: Developing Mechanistic Reasoning in Organic Chemistry: Research and Practice

CP-179

S158: Designing and Facilitating Chemistry Learning Environments Anchored in Phenomena

CP-183

S239: Exploration of Student-centered Assessments in Chemistry Education

CP-201

S233: Computers in Chemical Education

CP-208

S132: The Theory and Practice of Analytical Chemistry In the Classroom

CP-211

S75: Alternative Pathways in General Chemistry: Meeting the Needs of Varied Student Populations

CP-220

S47: Beyond Confirmatory Experiences: Teaching in the Chemistry Laboratory

CP-222

S114: Integrating Humanities into Chemistry Education

CP-287

S60: Promoting Global Collaboration in Chemistry Education: Insights from International Initiatives

CP-297

S254: Biochemistry Education: Discussions of the Laboratory Learning Environment

JSB-103

S21: Grading for Growth

JSB-121

S124: George R. Hague Memorial AP/IB Chemistry Symposium

JSB-203

S37: Chemistry Education Research: Undergraduate Student Research Symposium

JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium

JSB-321

Beyond "verbatim" transcription: Using techniques from applied linguistics to enhance the analysis of classroom talk in chemistry education research

JSB-108

11:45am

Lunch

2pm

S167: Playing Fun-tastic Games in Chemistry

CP-103

S230: Honoring Laura Trout: Making POGIL at the High School Level a Reality

CP-111

S242: Integrating Green Chemistry and Sustainability into Chemistry Education

CP-114

S164: Inside the Division of Chemical Education

CP-139

S59: Engaging Students & Curriculum Development in Large Classes

CP-153

S298: Present and Future Directions in Organic Chemistry Laboratory Courses

CP-155

S83: Developing Mechanistic Reasoning in Organic Chemistry: Research and Practice

CP-179

S158: Designing and Facilitating Chemistry Learning Environments Anchored in Phenomena

CP-183

S239: Exploration of Student-centered Assessments in Chemistry Education

CP-201

S233: Computers in Chemical Education

CP-208

S98: Effective Approaches to Inclusive Chemistry Education

CP-211

S136: Data-driven Approaches for Using Interactive Online Courseware to Improve Learning and Increase Equity

CP-220



Continued from **Tuesday, 30 July**

S47: Beyond Confirmatory Experiences: Teaching in the Chemistry Laboratory
CP-222

S114: Integrating Humanities into Chemistry Education
CP-287

S228: Multilingual Learners in Chemistry
CP-297

S253: Biochemistry Education in Honor of Vicky Minderhout
JSB-103

S174: Disrupting Grading
JSB-121

S124: George R. Hague Memorial AP/IB Chemistry Symposium
JSB-203

S37: Chemistry Education Research: Undergraduate Student Research Symposium
JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Classroom Exercises for General and Organic Chemistry Involving Wildlife Forensics and Food Fraud
JSB-108

ACS Custom Exams: How you can build and use an ACS exam that fits your needs while still having national data for comparison.
JSB-114

ADAPT: LibreTexts Online Homework System
JSB-231

The POGIL Project Workshop: Student-Centered Learning in the Laboratory: The Science Writing Heuristic Approach
JSB-243

A Culminating General Chemistry Laboratory Experiment that Reviews Key Learning Goals Using Natural Pigments
JSB-244

Reducing Barriers to Learning with Digital Chemistry Notebooks
JSB-337

Aligning laboratory experiments with learning objectives for focused formative assessment
JSB-347

Active Learning in Organic Chemistry: Backward Design
JSB-357

3:30pm

Break

3:45pm

S167: Playing Fun-tastic Games in Chemistry
CP-103

S230: Honoring Laura Trout: Making POGIL at the High School Level a Reality
CP-111

S242: Integrating Green Chemistry and Sustainability into Chemistry Education
CP-114

S164: Inside the Division of Chemical Education
CP-139

S59: Engaging Students & Curriculum Development in Large Classes
CP-153

S298: Present and Future Directions in Organic Chemistry Laboratory Courses
CP-155

S83: Developing Mechanistic Reasoning in Organic Chemistry: Research and Practice
CP-179

S158: Designing and Facilitating Chemistry Learning Environments Anchored in Phenomena
CP-183

S131: Engaging Students using the Chemistry of Beverage Alcohol
CP-201

S233: Computers in Chemical Education
CP-208

S98: Effective Approaches to Inclusive Chemistry Education
CP-211

S136: Data-driven Approaches for Using Interactive Online Courseware to Improve Learning and Increase Equity
CP-220

S47: Beyond Confirmatory Experiences: Teaching in the Chemistry Laboratory
CP-222

S114: Integrating Humanities into Chemistry Education
CP-287

S228: Multilingual Learners in Chemistry
CP-297

S174: Disrupting Grading
JSB-121

S124: George R. Hague Memorial AP/IB Chemistry Symposium
JSB-203

S37: Chemistry Education Research: Undergraduate Student Research Symposium
JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Writing equitable assessments: Strategies for chemistry educators and chemistry education researchers to construct more accessible and inclusive assessments
JSB-108

Wednesday, 31 July

7am

Breakfast
Champions Kitchen, inside Gatton Student Center



Continued from **Wednesday, 31 July**

8am

Workshop and Demo Prep
JSB-258

8:30am

S303: Teaching Chemical Safety In The Classroom/Laboratory
CP-103

S275: Integrating Forensic Science Courses Into the Curriculum and Growing Forensic Science Programs
CP-111

S268: Greener Practices for Organic Chemistry Labs
CP-114

S164: Inside the Division of Chemical Education
CP-139

S59: Engaging Students & Curriculum Development in Large Classes
CP-153

S84: Active Learning in Organic Chemistry
CP-155

S76: Mixing It Up With Informal Chemistry Education: An Unconventional Chemistry Circus - Where Formal Meets Fun!
CP-183

S131: Engaging Students using the Chemistry of Beverage Alcohol
CP-201

S252: Connecting Course Based and Traditional Research Experiences
CP-208

S40: Communities of Practice Transforming Chemistry Education
CP-211

S75: Alternative Pathways in General Chemistry: Meeting the Needs of Varied Student Populations
CP-220

S31: Current Research on the Undergraduate Chemistry Laboratory
CP-222

S114: Integrating Humanities into Chemistry Education
CP-287

S42: Scaffolding and Assessing Professional Skills and Science Practices in the Undergraduate Curriculum: Addressing the 2023 ACS Guidelines
CP-297

S271: Pedagogical Innovations for Upper Division Labs
JSB-103

S174: Disrupting Grading
JSB-121

S299: Artificial Intelligence in Chemistry Education
JSB-203

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Inventorying in-lab opportunities to engage in expert-like thinking
JSB-108

Introduction to Machine Learning in Chemistry using Python. Part 1: Working with a data set and building a chemistry machine learning model. Part 2: Building data sets and cheminformatics models
JSB-114

Writing Competitive Grant Proposals
JSB-221

The POGIL Project Workshop: Classroom Facilitation
JSB-231

From Seed to Tree: Integrating Racial, Social, and Environmental Justice Principles into your Chemistry Curriculum
JSB-243

3D Printable Resources for Engaging Students in the Exploration of Instrument Design and Performance: Inexpensive and User-Friendly Instrument Kits for STEM Educators
JSB-244

Active Learning in Organic Chemistry: Improve student learning and engagement with formative assessment and collaborative learning
JSB-337

Transitioning from Excel to Python for Chemistry Lab Data Analysis
JSB-347

Integrating Open Educational Resources (OER) into the Chemistry Curriculum with OpenStax and Aktiv Chemistry
JSB-357

10am

Break

10:15am

S204: Innovations, Practices, and Challenges in Large Enrollment Laboratory Courses
CP-103

S275: Integrating Forensic Science Courses Into the Curriculum and Growing Forensic Science Programs
CP-111

S268: Greener Practices for Organic Chemistry Labs
CP-114

S164: Inside the Division of Chemical Education
CP-139

S59: Engaging Students & Curriculum Development in Large Classes
CP-153

S84: Active Learning in Organic Chemistry
CP-155

S244: Research Investigations in STEM Identity in Chemistry Learning Environments
CP-179

S76: Mixing It Up With Informal Chemistry Education: An Unconventional Chemistry Circus - Where Formal Meets Fun!
CP-183



Continued from **Wednesday, 31 July**

S131: Engaging Students using the Chemistry of Beverage Alcohol
CP-201

S138: Course-based Undergraduate Research Experiences (CUREs): Assessments, Barriers and Opportunities
CP-208

S40: Communities of Practice Transforming Chemistry Education
CP-211

S75: Alternative Pathways in General Chemistry: Meeting the Needs of Varied Student Populations
CP-220

S31: Current Research on the Undergraduate Chemistry Laboratory
CP-222

S57: Art and Archaeology as a Vehicle to Teach Core Chemical Concepts
CP-287

S42: Scaffolding and Assessing Professional Skills and Science Practices in the Undergraduate Curriculum: Addressing the 2023 ACS Guidelines
CP-297

S271: Pedagogical Innovations for Upper Division Labs
JSB-103

S174: Disrupting Grading
JSB-121

S299: Artificial Intelligence in Chemistry Education
JSB-203

S74: Engaging Students in Physical Chemistry
JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Engaging Organic Chemistry Students Using an Effective Active-Learning Approach
JSB-108

11:45am

Lunch

2pm

S204: Innovations, Practices, and Challenges in Large Enrollment Laboratory Courses
CP-103

S163: ChatGPT in the Classroom: Empowering Educators with AI
CP-114

S164: Inside the Division of Chemical Education
CP-139

S84: Active Learning in Organic Chemistry
CP-155

S244: Research Investigations in STEM Identity in Chemistry Learning Environments
CP-179

S38: Team-Based Learning: Implementation, Practice, and Evaluation
CP-183

S194: Trends in GOB Chemistry
CP-201

S138: Course-based Undergraduate Research Experiences (CUREs): Assessments, Barriers and Opportunities
CP-208

S40: Communities of Practice Transforming Chemistry Education
CP-211

S75: Alternative Pathways in General Chemistry: Meeting the Needs of Varied Student Populations
CP-220

S31: Current Research on the Undergraduate Chemistry Laboratory
CP-222

S57: Art and Archaeology as a Vehicle to Teach Core Chemical Concepts
CP-287

S20: ChemEd X: Engaging with Contributors
CP-297

S276: Designing and Implementing CUREs for 1st and 2nd year Chemistry Courses
JSB-103

S72: Re-envisioning Grading and Assessments for Enhanced Student's Learning Experience
JSB-121

S74: Engaging Students in Physical Chemistry
JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Do we test what we want to test?: From learning outcomes to an assessment plan to using assessment results to inform classroom and programmatic targets
JSB-108

The POGIL Project Workshop: Teaching computational chemistry using Chemcompute
JSB-231

The POGIL Project Workshop: Development and Implementation of Guided Inquiry Experiments for Physical Chemistry
JSB-244

OK I know about active learning but how do I do it?
JSB-337

Introduction to IONiC / VIPeR: Using and Sharing Inorganic Chemistry Education Resources
JSB-347

Enhancing Assessment of Student Learning in Your CURE
JSB-357

3:30pm

Break



Continued from **Wednesday, 31 July**

3:45pm

S204: Innovations, Practices, and Challenges in Large Enrollment Laboratory Courses
CP-103

S163: ChatGPT in the Classroom: Empowering Educators with AI
CP-114

S231: Active Learning in the Organic Chemistry Laboratory
CP-153

S84: Active Learning in Organic Chemistry
CP-155

S244: Research Investigations in STEM Identity in Chemistry Learning Environments
CP-179

S38: Team-Based Learning: Implementation, Practice, and Evaluation
CP-183

S194: Trends in GOB Chemistry
CP-201

S138: Course-based Undergraduate Research Experiences (CUREs): Assessments, Barriers and Opportunities
CP-208

S75: Alternative Pathways in General Chemistry: Meeting the Needs of Varied Student Populations
CP-220

S31: Current Research on the Undergraduate Chemistry Laboratory
CP-222

S57: Art and Archaeology as a Vehicle to Teach Core Chemical Concepts
CP-287

S20: ChemEd X: Engaging with Contributors
CP-297

S276: Designing and Implementing CUREs for 1st and 2nd year Chemistry Courses
JSB-103

S72: Re-envisioning Grading and Assessments for Enhanced Student's Learning Experience
JSB-121

S74: Engaging Students in Physical Chemistry
JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Thursday, 1 August

7am

Breakfast
Champions Kitchen, inside Gatton Student Center

8:30am

S106: AI and Machine Learning as Agents of Change in Chemistry Education
CP-114

S231: Active Learning in the Organic Chemistry Laboratory
CP-153

S84: Active Learning in Organic Chemistry
CP-155

S261: STEM Outreach
CP-183

S194: Trends in GOB Chemistry
CP-201

S138: Course-based Undergraduate Research Experiences (CUREs): Assessments, Barriers and Opportunities
CP-208

S176: Lessons Learned as a Chemistry Lecture/Lab Coordinator
CP-211

S195: Big 10 Gen Chem Labs: Advances, Innovations, and Challenges
CP-222

S57: Art and Archaeology as a Vehicle to Teach Core Chemical Concepts
CP-287

S203: Learning from Failure
CP-297

S72: Re-envisioning Grading and Assessments for Enhanced Student's Learning Experience
JSB-121

S74: Engaging Students in Physical Chemistry
JSB-213

S267: Chemistry Education Research: Graduate Student Research Symposium
JSB-321

Real Intelligence (Still) Beats Artificial Intelligence: Engaging Students with Inquisitive Molecular Modeling
JSB-108

WebMO Hands-On Workshop
JSB-114

Chemistry with Unity
JSB-243

Aligning ELIPSS transferable skill rubrics with assessment needs
JSB-337

Development and Implementation of a Learning Model Where Students Experience the Scientific Research Process Through Bioinformatic Protein Modeling
JSB-347

Online certification courses to help experimental graduate students incorporate molecular modeling into their research
JSB-357

10am

Break



Continued from **Thursday, 1 August**

10:15am

S106: AI and Machine Learning as Agents of Change in Chemistry Education

CP-114

S231: Active Learning in the Organic Chemistry Laboratory

CP-153

S84: Active Learning in Organic Chemistry

CP-155

S261: STEM Outreach

CP-183

S194: Trends in GOB Chemistry

CP-201

S138: Course-based Undergraduate Research Experiences (CUREs): Assessments, Barriers and Opportunities

CP-208

S176: Lessons Learned as a Chemistry Lecture/Lab Coordinator

CP-211

S195: Big 10 Gen Chem Labs: Advances, Innovations, and Challenges

CP-222

S57: Art and Archaeology as a Vehicle to Teach Core Chemical Concepts

CP-287

S203: Learning from Failure

CP-297

S72: Re-envisioning Grading and Assessments for Enhanced Student's Learning Experience

JSB-121

S74: Engaging Students in Physical Chemistry

JSB-213