Technical Symposia At-a-Glance

Sunday, July 31, 2016 Afternoon Sessions

S1a: Active learning in organic chemistry

Organizers: Cathy Welder (Dartmouth College), Jennifer Muzyka (Centre College), and Robert Rossi (Rowan College at Gloucester County)

1:30 - 4:30 pm McKee L0151

S2a: Becoming a chemical professional

Organizers: Cheryl Frech (University of Central Oklahoma), Luis Montes (University of Central Oklahoma)

1:30 - 4:30 pm McKee 0333

S3a: Chemical education research: Affective-Motivation, Gender, Attitudes, Collaboration

Organizers: Vickie Williamson (Texas A & M University), Diana Mason (University of North Texas), Robert Shelton (Texas A & M - San Antonio), Jerry Suits (University of Northern Colorado)

1:30 - 4:30 pm MICH L0110

S4: Chemical education research: Project design and data collection techniques

Organizers: Amy Johnson (Eastern Michigan University), Oluwatobi (Tobi) Odeleye (SDSU)

1:30 - 4:30 pm MICH L0108

S5: Collaborations: The bonds that strengthen two-year college chemistry faculty in today’s learning environments

Organizers: Pam Clevenger (Itawamba Community College), Julie Ellefson (Harper College), Kathy Carrigan (Portland Community College)

1:30 - 4:30 pm McKee 0221

S6a: Developing electronic resources for chemical education

Organizers: Luis Montes (University of Central Oklahoma), Amina El-Ashmawy (Collin College)

1:30 - 4:30 pm Ross L1010
S7a: Engaging students in Physical Chemistry

Organizers: Craig Teague (Cornell College), David Gardner (Lander University)

1:30 - 4:30 pm  Ross L1090

S8a: General Papers - Demonstrations and Activities in Chemistry

Organizers: Matt Miller (South Dakota State University), Julie Smist (Springfield College)

1:30 - 4:30 pm  McKee 0425

S9: Instrumentation for the modern chemistry teaching laboratory

Organizer: Gordon Bain (Thermo Fisher Scientific)

1:30 - 4:30 pm  UC- Columbine A

S10a: Interactive forum on practical strategies and active learning approaches to teaching and learning general chemistry and organic chemistry

Organizers: Deb Exton (University of Oregon), Charles Atwood (University of Utah), Thomas Greenbowe (University of Oregon)

1:30 - 4:30 pm  McKee L0150

S11: Message in a Bottle: How do we reach millennial students?

Organizer: Jim Zubricky (University of Toledo)

1:30 – 4:30 pm  Ross L1040

S12: Models and modeling in introductory chemistry

Organizers: Laura Slocum (Heathwood Hall Episcopal School) and Larry Dukerich (AMTA)

1:30 – 4:30 pm  McKee L0152

S13: Modern experiments for inorganic chemistry

Organizer: David Heroux (Saint Michael's College)

1:30 – 4:30 pm  Ross 2295

S14: Optimizing laboratory experience

Organizer: Vishakha Monga (University of British Columbia)

1:30 – 4:30 pm  Ross L1060
S15a: Science outreach beyond the classroom
Organizer: Graeme R. A. Wyllie (Concordia College)
1:30 -4:30 pm Ross 2275

S16: Social networking in chemical education research (SNiCER): Using social media to communicate, teach and research in chemical education
Organizers: Tanya Gupta (South Dakota State University), Clarissa Sorensen-Unruh (CNM Community College)
1:30 – 4:30 pm McKee 0135

S17a: What's new in GOB chemistry?
Organizer: Laura Frost (Florida Gulf Coast University)
1:30 – 4:30 pm McKee 0424

Sunday, July 31, 2016 Evening Poster Session

S18a: General Posters - Research and Outreach Part 1
Organizers: Matt Miller (South Dakota State University), Julie Smist (Springfield College)
7:00 – 8:00 pm University Center Ballrooms
Monday, August 1, 2016 Morning Sessions

S19a: A day in the life of my classroom

Organizers: Amy Johnson (Eastern Michigan University), Oluwatobi (Tobi) Odeleye (SDSU)

8:30 – 11:30 pm  
UC - Columbine A

S1b: Active learning in organic chemistry

Organizers: Cathy Welder (Dartmouth College), Jennifer Muzyka (Centre College), and Robert Rossi (Rowan College at Gloucester County)

8:30 – 11:30 am  
McKee L0151

S20a: Addressing underrepresented groups in STEM

Organizer: Daniel Cruz-Ramirez de Arellano (University of South Florida)

8:30 – 11:30 am  
UC - Spruce ABC

S2b: Becoming a chemical professional

Organizers: Cheryl Frech (University of Central Oklahoma), Luis Montes (University of Central Oklahoma)

8:30 – 11:30 am  
McKee 0333

S21a: CCWCS as a catalyst for curriculum and pedagogical reform: Faculty development and communities of scholars

Organizer: David Collard (Georgia Institute of Technology), Pat Hill, Lawrence Kaplan (Williams College), Jerry Smith

8:30 – 11:30 pm  
UC - Columbine B

S3b: Chemical Education Research: Qualitative and Mixed Methods

Organizers: Vickie Williamson (Texas A & M University), Diana Mason (University of North Texas), Robert Shelton (Texas A & M - San Antonio), Jerry Suits (University of Northern Colorado)

8:30 – 11:30 am  
MICH L0110
S6b: Developing electronic resources for chemical education

Organizers: Luis Montes (University of Central Oklahoma), Amina El-Ashmawy (Collin College)

8:30 – 11:30 am       Ross L1010

S22 Ethanol

Organizer: Roger Barth (West Chester University)

8:30 – 11:30 am       Ross 2295

S23: Facing the challenges of a first-year teacher of chemistry

Organizer: Adam Boyd (ACS - AACT)

8:30 – 11:30 pm       McKee L0152

S10b: Interactive forum on practical strategies and active learning approaches to teaching and learning general chemistry and organic chemistry

Organizers: Deb Exton (University of Oregon), Charles Atwood (University of Utah), Thomas Greenbowe (University of Oregon)

8:30 – 11:30 am       McKee L0150

S24a: Liberal arts in the chemistry classroom: Making connections to improve learning, engagement, and teaching

Organizers: Garland Crawford (Mercer University), Kathryn Kloeppe (Mercer University)

8:30 – 11:30 am       Ross 0275

S25: Once upon an animation: Looking for connections between laboratory stories and scenarios partnered with visualization practice

Organizers: Resa Kelly (San José State University), Sevil Akaygun, Sarah Hansen (Columbia University). Adrian Villalta Cerdas

8:30 – 11:30 am       McKee 0221

S15b: Science outreach beyond the classroom

Organizer: Graeme R. A. Wyllie (Concordia College)

8:30 – 11:30 pm       Ross 2275
S26a: Student-centered learning with a focus on improving process skills in the classroom and laboratory

Organizer: Gail Webster (Guilford College)

8:30 – 11:30 am     Ross L1040

S27: The first two years and the 2015 ACS guidelines

Organizer: Susan Shih (College of DuPage)

8:30 – 11:30 am     Ross L1060

S28: Toxicology for chemists: Techniques and models for integrating concepts into chemistry courses and programs

Organizers: Any Cannon (Beyond Benign) and Doug Raynie (South Dakota State University)

8:30 – 11:30 am     McKee 0135

S29a: Using chemical education research to inform teaching strategies and the design of instructional materials

Organizer: Renee Cole (University of Iowa)

8:30 – 11:30 am     MICH L0108

S17b: What's new in GOB chemistry?

Organizer: Laura Frost (Florida Gulf Coast University)

8:30 – 11:30 am     McKee 0424

S18b: General Posters- Classroom and Laboratory Activities in High School, Physical, Analytical, and General Chemistry

Organizers: Matt Miller (South Dakota State University), Julie Smist (Springfield College)

9:30 – 10:30 am     University Center Ballrooms

S18c: General Posters- Classroom and Laboratory Activities in High School, Physical, Analytical, and General Chemistry

Organizers: Matt Miller (South Dakota State University), Julie Smist (Springfield College)

11:00 am – noon     University Center Ballroom
Monday, August 1, 2016 Afternoon Sessions

S19b: A day in the life of my classroom

Organizers: Amy Johnson (Eastern Michigan University), Oluwatobi (Tobi) Odeleye (SDSU)

2:45 – 5:45 pm  
UC - Columbine A

S30: ACS guidelines for approved chemistry programs - The new macromolecular, supramolecular, mesoscale and nanoscale requirement

Organizer: Thomas J. Wenzel (Bates College)

2:45 – 5:45 pm  
McKee 0333

S20b: Addressing underrepresented groups in STEM

Organizer: Daniel Cruz-Ramirez de Arellano (University of South Florida)

2:45 – 5:45 pm  
UC - Spruce ABC

S31: Authentic research experiences in the first and second year curriculum

Organizers: Nichole Powell (Oxford College of Emory University), Brenda Harmon (Oxford College of Emory University)

2:45 – 5:45 pm  
McKee 0221

S21b: CCWCS as a catalyst for curriculum and pedagogical reform: Faculty development and communities of scholars

Organizer: David Collard (Georgia Institute of Technology), Pat Hill, Lawrence Kaplan (Williams College), Jerry Smith

2:45 – 5:45 pm  
Ross 0090

S3c: Chemical Education Research: Instrument Design and Use

Organizers: Vickie Williamson (Texas A & M University), Diana Mason (University of North Texas), Robert Shelton (Texas A & M - San Antonio), Jerry Suits (University of Northern Colorado)

2:45 – 5:45 pm  
MICL L0110
S32a: Chemistry and community outreach - Ideas, events, issues
Organizer: Paul Morgan (Butler University)
2:45 – 5:45 pm, Ross 2275

S6c: Developing electronic resources for chemical education
Organizers: Luis Montes (University of Central Oklahoma), Amina El-Ashmawy (Collin College)
2:45 – 5:45 pm, Ross L1010

S33a: Engaging students in organic chemistry: Classroom activities
Organizer: Barbara Murray (University of Redlands) Patricia Kreke (Mt. St. Mary’s University), Steven Fleming (Temple University), and Stephanie Brouet
2:45 – 5:45 pm, McKee L0150

S7b: Engaging students in Physical Chemistry
Organizers: Craig Teague (Cornell College), David Gardner (Lander University)
2:45 – 5:45 pm, Ross L1090

S34: Homework: Past, present and future
Organizer: John Penn (West Virginia University), Michelle Richards-Babb (West Virginia University), Erik Epp (University of Minnesota)
2:45 – 5:45 pm, McKee 0135

S35a: Initiatives for introductory student success
Organizers: Aimee Miller (Millersville University), Laura Anna (Montgomery College)
2:45 – 5:45 pm, McKee 0425

S36a: Present and future directions in organic chemistry laboratory courses
Organizers: Noel Paul (The Ohio State University), Christopher Callam (The Ohio State University)
2:45 – 5:45 pm, McKee L0151
S37: PrOGeCTeS: Projects in the chemistry classroom
Organizer: Roxie Allen (St. John's School), Amiee Modic (Katy High School), Kathleen Kitzmann (Mercy High School)
2:45 – 5:45 pm Mckee L0152

S26b: Student-centered learning with a focus on improving process skills in the classroom and laboratory
Organizer: Gail Webster (Guilford College)
2:45 – 5:45 pm Ross L1040

S38: Teaching inorganic and general chemistry with VIPEr learning objects
Organizers: Anne Bentley (Lewis & Clark College), Hilary Eppley, Lori Watson
2:45 – 5:45 pm Ross 2295

S39: Teaching undergraduate organic chemistry with biological emphasis - Ideology, methodology and challenges
Organizers: Animesh Aditya (Purdue University), Marc Loudon
2:45 – 5:45 pm Ross L1060

S29b: Using chemical education research to inform teaching strategies and the design of instructional materials
Organizer: Renee Cole (University of Iowa)
2:45 – 5:45 pm MICH L0108

S18d: General Poster Session: Instructional Methods in the Classroom
Organizers: Matt Miller (South Dakota State University), Julie Smist (Springfield College)
4:00 – 5:00 pm University Center Ballroom
**Tuesday, August 2, 2016 Morning Sessions**

S40: Accessible instruction and participation in the undergraduate science course for students with vision impairment or loss

Organizer: Alfred T. D'Agostino (Notre Dame of Maryland University)

9:45 am – 12:30 pm  McKee L0150

S1c: Active learning in organic chemistry

Organizers: Cathy Welder (Dartmouth College), Jennifer Muzyka (Centre College), and Robert Rossi (Rowan College at Gloucester County)

9:45 am – 12:30 pm  McKee L0151

S41a: Application of "learning how to learn" in the chemistry curriculum

Organizer: Sylvia Esjornson (Southwestern Oklahoma State University)

9:45 am – 12:30 pm  McKee 0333

S42a: Big ideas in higher education: Things worth making our own or just more initiative fatigue - 1

Organizer: Keith S. Anliker (IUPUI), Lin Zhu

9:45 am – 12:30 pm  Ross 2295

S43a: Biochemistry education: Discussions of the lecture learning environment

Organizers: Thomas Bussey (University of California, San Diego), Rodney Austin (Geneva College)

9:45 am – 12:30 pm  Ross L1090

S21c: CCWCS as a catalyst for curriculum and pedagogical reform: Faculty development and communities of scholars

Organizer: David Collard (Georgia Institute of Technology), Pat Hill, Lawrence Kaplan (Williams College), Jerry Smith

9:45 am – 12:30 pm  Ross 0090

S3d: Chemical Education Research: Instructor Factors and Improvement
Organizers: Vickie Williamson (Texas A & M University), Diana Mason (University of North Texas), Robert Shelton (Texas A & M - San Antonio), Jerry Suits (University of Northern Colorado)

9:45 am – 12:30 pm MICH L0110

S44a: Collaborative technology in the chemistry classroom: Innovations, challenges and practices
Organizers: Brett McCollum (Mount Royal University), Julia Chamberlain (UC Davis)

9:45 am – 12:30 pm Ross 2090

S45a: Effective teaching in environmental chemistry
Organizers: Levi Mielke (University of Indianapolis), Katherine Stickney (University of Indianapolis)

9:45 am – 12:30 pm Ross L1060

S46a: Engaging students in analytical chemistry
Organizer: Albert D. Dukes III (Lander University)

9:45 am – 12:30 pm UC - Columbine A

S47a: Fostering success in general chemistry
Organizers: Kari Stone (Benedictine University), Sarah Shaner (Benedictine University)

9:45 am – 12:30 pm McKee 0221

S48a: Implementing research experiences into the undergraduate chemistry curriculum
Organizers: David Goode (Mercer University), Garland Crawford (Mercer University ), Supaporn Kradtap Hartwell (Xavier University)

9:45 am – 12:30 pm Ross 2275

S35b: Initiatives for introductory student success
Organizers: Aimee Miller (Millersville University), Laura Anna (Montgomery College)

9:45 am – 12:30 pm McKee 0425

S49: Introducing organic chemistry in high school
Organizer: Ester Hines (Billerica Memorial High School)
9:45 am – 12:30 pm McKee L0152

S50a: Knowledge is constructed in the mind of the learner: Commemoration of the 70th birthday of George Bodner

Organizers: Gautam Bhattacharyya (Missouri State University), Daniel Domin (Dominican University)

9:45 am – 12:30 pm UC - Spruce ABC

S51: Providing supplemental help to science students

Organizer: Heather Sklenicka (Rochester Community and Technical College)

9:45 am – 12:30 pm McKee 0135

S26c: Student-centered learning with a focus on improving process skills in the classroom and laboratory

Organizer: Gail Webster (Guilford College)

9:45 am – 12:30 pm Ross L1040

S29c: Using chemical education research to inform teaching strategies and the design of instructional materials

Organizer: Renee Cole (University of Iowa)

9:45 am – 12:30 pm MICH L0108

S52a: Web-Based Resources: Learning Analytics and Labs

Organizers: Robert Belford (ULAR), John Penn, Jennifer Muyzka (Centre College), Dan Branan (Western Governors University),

9:45 am – 12:30 pm Ross L1010

S19e: General Posters: Classroom and Laboratory Activities in High School, Organic, Inorganic, and Biochemistry

Organizers: Matt Miller South Dakota State University, Julie Smist (Springfield College)

10:00 – 11:00 am University Center Ballroo
Tuesday, August 2, 2016 Afternoon Sessions

S41b: Application of "learning how to learn" in the chemistry curriculum
Organizer: Sylvia Esjornson (Southwestern Oklahoma State University)
1:30 – 4:30 pm McKee 0333

S53: Best practices in using chemistry animations and simulations inside and outside of the classroom
Organizers: Deborah Herrington (Grand Valley State University), Jessica VandenPlas (Grand Valley State University), Ryan Sweeder (Michigan State University)
1:30 – 4:30 pm MICH L0108

S42b: Big ideas in higher education: Things worth making our own or just more initiative fatigue - 1
Organizer: Keith S. Anliker (IUPUI), Lin Zhu
1:30 – 4:30 pm Ross 2295

S21d: CCWCS as a catalyst for curriculum and pedagogical reform: Faculty development and communities of scholars
Organizer: David Collard (Georgia Institute of Technology), Pat Hill, Lawrence Kaplan (Williams College), Jerry Smith
1:30 – 4:30 pm Ross 0090

S3e: Chemical Education Research: Instructor Factors and Improvement
Organizers: Vickie Williamson (Texas A & M University), Diana Mason (University of North Texas), Robert Shelton (Texas A & M - San Antonio), Jerry Suits (University of Northern Colorado)
1:30 – 4:30 pm MICH L0110
S32b: Chemistry and community outreach - Ideas, events, issues
Organizer: Paul Morgan (Butler University)
1:30 – 4:30 pm Ross 2090

S46b: Engaging students in analytical chemistry
Organizer: Albert D. Dukes III (Lander University)
1:30 – 4:30 pm UC - Columbine A

S33b: Engaging students in organic chemistry: Throughout the course
Organizer: Barbara Murray (University of Redlands) Patricia Kreke (Mt. St. Mary’s University), Steven Fleming (Temple University), and Stephanie Brouet
1:30 – 4:30 pm McKee L0150

S7c: Engaging students in Physical Chemistry
Organizers: Craig Teague (Cornell College), David Gardner (Lander University)
1:30 – 4:30 pm Ross L1090

S54a: Flipped classroom application in the university chemistry class
Organizer: Zangyuan Own (Providence University)
1:30 – 4:30 pm Ross L1040

S55: Food chemistry
Organizer: Keith Symcox (University of Tulsa)
1:30 – 4:30 pm McKee 0135

S48b: Implementing research experiences into the undergraduate chemistry curriculum
Organizers: David Goode (Mercer University), Garland Crawford (Mercer University), Supaporn Kradtap Hartwell (Xavier University)
1:30 – 4:30 pm Ross 2275
S50b: Knowledge is constructed in the mind of the learner: Commemoration of the 70th birthday of George Bodner

Organizers: Gautam Bhattacharyya (Missouri State University), Daniel Domin (Dominican University)

1:30 – 4:30 pm
UC - Spruce ABC

S24b: Liberal arts in the chemistry classroom: Making connections to improve learning, engagement, and teaching

Organizers: Garland Crawford (Mercer University), Kathryn Kloepper (Mercer University)

1:30 – 4:30 pm
McKee 0425

S36b: Present and future directions in organic chemistry laboratory courses

Organizers: Noel Paul (The Ohio State University), Christopher Callam (The Ohio State University)

1:30 – 4:30 pm
McKee L0151

S56: Teaching chemistry at minority-serving institutions

Organizers: Renee Beeton (Adams State University), Ales Leontyev (Adams State University)

1:30 – 4:30 pm
McKee 0221

S57: Views from the classrooms of award winning chemistry teachers

Organizer: Deanna Cullen (Whitehall High School)

1:30 – 4:30 pm
McKee L0152

S52b: Web-Based Resources: Interactive Visualizations and Databases

Organizers: Robert Belford (ULAR), John Penn, Jennifer Muyzka (Centre College), Dan Branan (Western Governors University),

1:30 – 4:30 pm
Ross L1010
**Wednesday, August 3, 2016 Morning Sessions**

S1d: Active learning in organic chemistry

Organizers: Cathy Welder (Dartmouth College), Jennifer Muzyka (Centre College), and Robert Rossi (Rowan College at Gloucester County)

8:30 – 11:30 am  McKee L0151

S58a: Alternative pathways to a chemistry curriculum: What did you do and what did you learn from your experience?

Organizer: Ehren Bucholtz (St. Louis College of Pharmacy)

8:30 – 11:30 am  Ross 0090

S43b: Biochemistry education: Discussions of the lecture learning environment

Organizers: Thomas Bussey (University of California, San Diego), Rodney Austin (Geneva College)

8:30 – 11:30 am  Ross L1090

S3f: Chemical Education Research: Misconceptions

Organizers: Vickie Williamson (Texas A & M University), Diana Mason (University of North Texas), Robert Shelton (Texas A & M - San Antonio), Jerry Suits (University of Northern Colorado)

8:30 – 11:30 am  MICH L0110

S59a: Chemical education research: Graduate student research symposium

Organizers: Jennifer Schmidt-McCormack (University of Iowa), Sara Johnson

8:30 – 11:30 am  MICH L0108

S60: Emphasizing a conceptual approach to understanding energy

Organizer: Larry Dukerich (AMTA)

8:30 – 11:30 am  McKee L0150
S54b: Flipped classroom application in the university chemistry class

Organizer: Zangyuan Own (Providence University)

8:30 – 11:30 am  
Ross L1040

S47b: Fostering success in general chemistry

Organizers: Kari Stone (Benedictine University), Sarah Shaner (Benedictine University)

8:30 – 11:30 am  
McKee 0221

S8b: General Papers: College Chemistry Instruction: Methods and strategies

Organizers: Matt Miller (South Dakota State University), Julie Smist (Springfield College)

8:30 – 11:30 am  
McKee 0425

S61a: George Hague memorial AP chem symposium day

Organizer: Harvey Gendreau (Laboratory Safety Institute)

8:30 – 11:30 am  
McKee L0152

S62a: Green chemistry in the curriculum and beyond

Organizers: Susan Sutheimer (Green Mountain College), Meghna Dilip (Worcester State University), Andy Dicks (University of Toronto), Loyd Bastin (Widener University)

8:30 – 11:30 am  
Ross L1060

S48c: Implementing research experiences into the undergraduate chemistry curriculum

Organizers: David Goode (Mercer University), Garland Crawford (Mercer University), Supaporn Kradtap Hartwell (Xavier University)

8:30 – 11:30 am  
Ross 2275

S63: Issues in teaching and learning in a general, organic, and biochemistry (GOB) course

Corina Brown (University of Northern Colorado)

8:30 – 11:30 am  
McKee 0424
S64a: Metacognition and self-regulated learning in the chemistry classroom

Organizers: Ingrid Ulbrich (Colorado State University), Seth Anthony (Oregon Institute of Technology)

8:30 – 11:30 am Ross 2295

S65: New directions in academic lab safety

Organizers: Dave Finster (Wittenberg University), Sammye Sigmann (Appalachian State University), Alicia Paterno (Duquesne University)

8:30 – 11:30 am McKee 0135

S66a: Putting the framework into practice: Incorporating and evaluating scientific practices and cross-cutting concepts in chemistry

Organizers: Jessica Reed (University of Wisconsin-Milwaukee), Justin Carmel (Michigan State University)

8:30 – 11:30 am McKee 0333

S67a: Strategies in STEM student retention

Organizer: Graeme Wyllie (Concordia College)

8:30 – 11:30 am McKee 0424

S52c: Web-Based Resources: Electronic Textbooks and Resources

Organizers: Robert Belford (ULAR), John Penn, Jennifer Muyzka (Centre College), Dan Branan (Western Governors University),

8:30 – 11:30 am Ross L1010


**Wednesday, August 3, 2016 Afternoon Sessions**

S1e: Active learning in organic chemistry

Organizers: Cathy Welder (Dartmouth College), Jennifer Muzyka (Centre College), and Robert Rossi (Rowan College at Gloucester County)

2:45 – 5:45 pm  McKee L0151

S58b: Alternative pathways to a chemistry curriculum: What did you do and what did you learn from your experience?

Organizer: Ehren Bucholtz (St. Louis College of Pharmacy)

2:45 – 5:45 pm  Ross 0090

S68a: Biochemistry education: Discussions of the laboratory environment

Organizers: Kimberley Linenberger (Kennesaw State University), Jeff Raker (University of South Florida)

2:45 – 5:45 pm  Ross L1090

S3g: Chemical Education Research: Concept Development and Performance

Organizers: Vickie Williamson (Texas A & M University), Diana Mason (University of North Texas), Robert Shelton (Texas A & M - San Antonio), Jerry Suits (University of Northern Colorado)

2:45 – 5:45 pm  MICH L0110

S59b: Chemical education research: Graduate student research symposium

Organizers: Jennifer Schmidt-McCormack (University of Iowa), Sara Johnson

2:45 – 5:45 pm  MICH L0108

S32c: Chemistry and community outreach - Ideas, events, issues

Organizer: Paul Morgan (Butler University)

2:45 – 5:45 pm  Ross 2090
S44b: Collaborative technology in the chemistry classroom: Innovations, challenges and practices
Organizers: Brett McCollum (Mount Royal University), Julia Chamberlain (UC Davis)
2:45 – 5:45 pm          UC - Columbine A

S69: Developing and supporting chemistry teachers and their teaching practices
Organizer: Sarah Boesdorfer (Illinois State University)
2:45 – 5:45 pm          Ross L1040

S45b: Effective teaching in environmental chemistry
Organizers: Levi Mielke (University of Indianapolis), Katherine Stickney (University of Indianapolis)
2:45 – 5:45 pm          McKee 0135

S70: Equilibrium and acids/bases: How are these taught in a high school classroom?
Organizer: Brenda Royce (University High School)
2:45 – 5:45 pm          McKee L0150

S54c: Flipped classroom application in the university chemistry class
Organizer: Zangyuan Own (Providence University)
2:45 – 5:45 pm          Ross L1010

S47c: Fostering success in general chemistry
Organizers: Kari Stone (Benedictine University), Sarah Shaner (Benedictine University)
2:45 – 5:45 pm          McKee 0221

S61a: George Hague memorial AP chem symposium day
Organizer: Harvey Gendreau (Laboratory Safety Institute)
2:45 – 5:45 pm          McKee L0152
S62b: Green chemistry in the curriculum and beyond

Organizers: Susan Sutheimer (Green Mountain College), Meghna Dilip (Worcester State University), Andy Dicks (University of Toronto), Loyd Bastin (Widener University)

2:45 – 5:45 pm  Ross L1060

S24c: Liberal arts in the chemistry classroom: Making connections to improve learning, engagement, and teaching

Organizers: Garland Crawford (Mercer University), Kathryn Kloeppe (Mercer University)

2:45 – 5:45 pm  McKee 0425

S64b: Metacognition and self-regulated learning in the chemistry classroom

Organizers: Ingrid Ulbrich (Colorado State University), Seth Anthony (Oregon Institute of Technology)

2:45 – 5:45 pm  Ross 2295

S71: Nanotechnology for general chemistry courses

Organizer: David Katz (Educator/Consultant)

2:45 – 5:45 pm  Ross 2275

S66b: Putting the framework into practice: Incorporating and evaluating scientific practices and cross-cutting concepts in chemistry

Organizers: Jessica Reed (University of Wisconsin-Milwaukee), Justin Carmel (Michigan State University)

2:45 – 5:45 pm  McKee 0333
Thursday, August 4, 2016 Morning Sessions

S68a: Biochemistry education: Discussions of the laboratory environment

Organizers: Kimberley Linenberger (Kennesaw State University), Jeff Raker (University of South Florida)

8:30 – 11:30 am  Ross L1090

S3h: Chemical Education Research: Concept Development and Performance

Organizers: Vickie Williamson (Texas A & M University), Diana Mason (University of North Texas), Robert Shelton (Texas A & M - San Antonio), Jerry Suits (University of Northern Colorado)

8:30 – 11:30 am  MICH L0110

S59c: Chemical education research: Graduate student research symposium

Organizers: Jennifer Schmidt-McCormack (University of Iowa), Sara Johnson

8:30 – 11:30 am  MICH L0108

S33c: Engaging students in organic chemistry: Lab activities

Organizer: Barbara Murray (University of Redlands) Patricia Kreke (Mt. St. Mary’s University), Steven Fleming (Temple University), and Stephanie Brouet

8:30 – 11:30 am  McKee L0150

S8c: General Papers: Teaching chemistry internationally or at a distance

Organizers: Matt Miller (South Dakota State University), Julie Smist (Springfield College)

8:30 – 11:30 am  McKee 0221

S8d: General Papers: Laboratory Activities

Organizers: Matt Miller (South Dakota State University), Julie Smist (Springfield College)

8:30 – 11:30 am  McKee 0425
S62c  Green chemistry in the curriculum and beyond

Organizers: Susan Sutheimer (Green Mountain College), Meghna Dilip (Worcester State University), Andy Dicks (University of Toronto), Loyd Bastin (Widener University)

8:30 – 11:30 am  Ross L1060

S72: How and why we do chemical demonstrations

Organizer: Dave Finster (Wittenberg University)

8:30 – 11:30 am  Ross 2275

S73: Interdisciplinary research: The best of both (or more!) worlds

Stephanie Ryan (American Institutes for Research), Thomas Bussey (University of California, San Diego)

8:30 – 11:30 am  McKee L0151

S74: Rules of engagement: Effective student interactive engagement that promotes learning

Organizers: Lisa Hibbard (Spelman College) and Leyte Winfield (Spelman College)

8:30 – 11:30 am  McKee 0333

S6b: Strategies in STEM student retention

Organizer: Graeme Wyllie (Concordia College)

8:30 – 11:30 am  McKee 0424

S75: Teaching in the general chemistry lab

Organizer: Steven Brown (University of Arizona)

8:30 – 11:30 am  Ross 2295

S76: The use of technology to enhance student learning

Organizers: Doug Ragan (Hudsonville High School), Erica Posthuma-Adams (University High School of Indiana)

8:30 – 11:30 am  McKee L0152