

HalChem XI, Johns Hopkins University 2024

Tuesday September 3, 2024

Glass Pavilion, Homewood Campus, JHU

17:00- onwards check-in + reception

Session 1 Steven Rokita (Chair)

18:30-18:40 Welcome

18:40-19:00 Vito Lippolis, *Introduction to HalChem*

19:00-19:20 Józef Drabowicz, *Tribute to JC Martin*

19:20-20:10 Jack Burkert, *Short History of Baltimore*

20:10-22:00 casual dinner and refreshments
(courtesy of the Krieger School, JHU)

Wednesday September 4, 2024

Salon B & C, Scott-Bates Commons, 2nd floor
3301 N. Charles St, Johns Hopkins University

8:30-9:00 light breakfast (courtesy of Thermo Fisher)

Session 2 Claudio Santi (Chair)

9:00-9:35 (II-1) David Vicic, *Simplifying Fluoroalkylation Chemistry with Nickel*

9:35-10:10 (II-2) Ying-Yeung Yeung, *Catalytic Asymmetric Halogenations and Their Synthetic Applications*

10:10-10:45 (II-3) Cody Pitts, *Strain-Release Pentafluorosulfanylation: Strange Molecules Doing Stranger Things*

10:45-11:05 break, refreshments (courtesy of JOC)

Session 3 Boris Nachtsheim (Chair)

11:05-11:40 (III-1) Satoshi Minakata, *Cyclic Halonium-Catalyzed Diastereodivergent 1,2-Diamination of Various Alkenes*

11:40-12:15 (III-2) Scott Miller, *Halogen Handles in Stereo-chemically Quixotic Asymmetric Catalysis*

12:15-12:50 (III-3) Xiongyi Huang, *Engineering Nonheme Iron Enzymes to Catalyze Abiotic Halogenation and Pseudohalogenation Reactions*

12:50-13:20 lunch (courtesy of MilliporeSigma)

13:20-14:10 poster session (1)

Wednesday September 4, 2024

Salon B & C, Scott-Bates Commons, 2nd floor
3301 N. Charles St, Johns Hopkins University

Session 4 Florence Williams (Chair)

14:10-14:45 (IV-1) Giuseppe Resnati, *Fluorine in Crystal Engineering*

14:45-15:20 (IV-2) Thomas Lectka, *Fun with Fluorine: What Happens when C-F Bonds Are Forced into Tight Places*

15:20-15:55 (IV-3) Markus Etzkorn, *Tailoring the Fluorination Pattern in a Polycyclic Cage Hydrocarbon*

15:55-16:30 break, refreshments (courtesy of Avantor)

Session 5 Satoshi Minakata (Chair)

16:30-17:05 (V-1) Francesca Mangiavacchi, *A Journey Towards Fluorinated Pharmacological Chaperones*

17:05-17:40 (V-2) Boris Nachtsheim, *Exploring the Frontiers of Halogen Bonding in Catalysis: From N-Heterocyclic Iodonium Salts to Oxidized Thyrosine Hormone Derivatives*

17:40-18:15 (V-3) Pierangelo Metrangolo, *Biomimetic Design of Novel Structural Biomaterials through Halogenation*

Dinner (on your own)

Thursday September 5, 2024

Salon B & C, Scott-Bates Commons, 2nd floor
(3301 N. Charles St)

8:30-9:00 light breakfast (courtesy of Thermo Fisher)

Session 6 Sarah Wengryniuk (Chair)

9:00-9:35 (VI-1) Vito Lippolis, *Bond Valence Model: the Occam's Razor for a Starting Approach to the Interpretation of Weak Interactions such as Halogen Bonding*

9:35-10:10 (VI-2) Craig Bayse, *Halogen Bonding from the Bonding Perspective with Applications to Iodothyronine Deiodinase Activity and Inhibition*

10:10-10:45 (VI-3) Vishal Yadav, *Nonheme Iron Halogenases: Traversing the Bridge between Synthetic Inorganic Chemistry and Enzymology*

Thursday September 5, 2024

Salon B & C, Scott-Bates Commons, 2nd floor
(3301 N. Charles St)

10:45-11:05 break, refreshments

Session 7 Ying-Yeung Yeung (Chair)

11:05-11:40 (VII-1) G.B. Hammond, *The Unprecedented Electrophilic Trifluoromethylthiolation Properties of 1-Methyl-4-(trifluoromethylthio)piperazine (MTTP)*

11:40-12:15 (VII-2) Kazuaki Ishihara, *Oxidative Dearomative Coupling of Low-Reactive Arenols Using Hypohalite Catalysis*

12:15-12:50 (VII-3) Sarah Wengryniuk, *N-Heterocyclic I(III) Reagents as a Platform for Oxidative Amination*

12:50-13:20 lunch (courtesy of Jasco)

13:20-14:10 poster session (2)

Session 8 Márcio Santos Silva (Chair)

14:10-14:45 (VIII-1) Jared Lewis, *Identifying and Engineering Flavin-Dependent Halogenases for Selective Catalysis*

14:45-15:20 (VIII-2) Claudio Santi, *Molecular Iodine as a Versatile Catalyst/Reagent in Organoselenium Mediated Reaction*

15:20-15:55 (VIII-3) Józef Drabowicz, *Cyclic and Acyclic Compounds Containing Stereogenic Hetero(carbon)-atoms Built Using Perfluorocumyl Alcohol as a Key Substrate: Syntheses, Chirality, Structural Determination and Reactivity*

16:00 free time/visit neighboring Baltimore Museum of Art

18:15 Bus pick up in front of the Baltimore Museum of Art, Art Museum Drive for travel to the Baltimore Aquarium (Aquarium: 501 E. Pratt St., Baltimore, MD 21202)

18:30 Stroll through the Aquarium (open bar)

19:30 Banquet at the Aquarium (courtesy of I₂ producers)

21:30 Bus returns to Homewood campus

Friday September 6, 2024

Salon B & C, Scott-Bates Commons, 2nd floor

3301 N. Charles St

8:30-9:00 light breakfast

Session 9 Cody Pitts (Chair)

9:00-9:35 (IX-1) Florence Williams, *Boron Trihalides as Versatile Reagents in Synthetic Strategy*

9:35-10:10 (IX-2) Francesc Teixidor, *Challenges of Aromatic Stability: The Role of Noncovalent X...X (X= halogen) Interactions in [B₁₂X₁₂]²⁻ Compounds*

10:10-10:45 (IX-3) Márcio Santos Silva, *NMR Technique for the Identification of Halogen-Selenium Intermediates*

10:45-11:05 break, refreshments
(courtesy of the Fluorine Division, ACS)

Session 10 Vito Lippolis (Chair)

11:05-11:40 (X-1) Tatsuo Kaiho, *Iodine Production and Industrial Application*

11:40-11:55 (P-1) Nathaniel Garrison, *Variable Reaction Manifolds in the Reactions Between Epoxides and Selectfluor*

11:55-12:10 (P-5) Cecilia Scimmi, *HOCl catalytically generated in situ for the synthesis of Thiosulfonates and Thiosulfonates*

12:10-12:25 (P-8) James Zhang, *Biocatalytic generation of trifluoromethyl radicals by nonhaem iron enzymes for enantioselective alkene difunctionalization*

12:25-12:35 Wrap up (Stevem Rokita and)

12:35-13:35 lunch

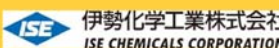
13:35 depart

A very BIG thank you to our sponsors!

Platinum Sponsor



Gold Sponsors



Silver Sponsors



Bronze Sponsors



Additional Sponsors



Local staff:

Clare Bindel, Jess Harris

Student assistance:

Ekroop Cheema, Yu-Ju (Crystal) Peng



HalChem XI

11th International Meeting On Halogen Chemistry



September 3 - 6, 2024



Johns Hopkins University, Baltimore, Maryland USA