**29th International Symposium on the Organic Chemistry of Sulfur**

**Scientific Schedule July 14, 2022**

‘v’ denotes virtual presentation

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| Sunday July 17 evening |  |  |
| 6:30 PM |  |
| **Registration and Opening Mixer** | Summerlee Science Complex Atrium[https://www.google.ca/maps/search/summerlee+science+centre/@43.5305172,-80.2273362,16.03z](https://www.google.ca/maps/search/summerlee%2Bscience%2Bcentre/%4043.5305172%2C-80.2273362%2C16.03z)  |
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| Monday July 18 |  |  |
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| prior to 8:50 AM |  |  |
| **Registration** | ROZH Concourse |
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| 8:50 AM |  |  |
| **Opening Ceremonies** | ROZH 102 |  |
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| **Plenary and Invited lectures** | ROZH 102 |  |
| **Chair: Eric Block** |
| 9:20 AM | P1 | **Samir Z. Zard**Ecole Polytechnique, Palaiseau, France*Sulfur Chemistry in Action. New Perspectives for Organic Synthesis*  |
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| 10:20 AM | Coffee |  |
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| **Chair: Hideki Yorimitsu** |
| 10:40 AM | I1v | **Anita Maguire** University College Cork, Cork, Ireland*Synthesis and Reactivity of a-Diazosulfones and a-Diazosulfoxides*  |
| 11:20 AM | I2 | **J. Caleb Hethcox**Merck & Co., Inc. Rahway, USA*Development of a Nickel-Catalyzed C-S Coupling Reaction with Application to the Manufacture of Active Pharmaceutical Ingredients*  |
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| 12:00 PM |  | Lunch Creelman Hall |
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| **Industrial chemistry lectures** | ROZH 102 |  |
| **Chair: Rohen Prinsloo** |
| 1:20 PM | Ind1 | **Jean-Philippe Chauvin**Arkema Inc, King of Prussia, USA *Sustainable Sulfur-Based Solutions at Arkema* |
| 1:50 PM | Ind2 | **Catherine Mineur**Bruno Bock, Marschacht, Germany*Bruno Bock Thiochemicals: Production of Organic Divalent Sulfur Chemicals*  |
| 2:20 PM | Ind3 | **Jason Kreider and Shawn Childress**Chevron Phillips Chemical Co., Bartlesville, USA*Sulfur Chemicals Production and Applications* |
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| 2:50 PM | Coffee |  |
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| **Contributed Oral Communications****Session A** | ROZH 102 |  (Parallel session with **Contributed Oral Session B)** |
| **Chair: Jason Kreider** |
| 3:10 PM | OA1 | **Rohen Prinsloo**Alberta Sulphur Research Ltd/University of Calgary, Calgary, Canada *Sulfur Recovery and CS2 Destruction in a Proof-of-Concept Liquid Phase Process on Commercial Alumina and Titania* |
| 3:30 PM | OA2v | **Elvira Spatolisano**Politecnico di Milano, Milan, Italy*The HydroClaus Process: A Novel Technology for Valuable Sulfur Production* |
| 3:50 PM | OA3 | **Yang Chen**McMaster University, Hamilton, Canada*Oligosulfide Reduction by Hydrosilanes Allows Complete Devulcanization of Used Automobile Tire Rubber* |
| 4:10 PM | OA4 | **Terry Shing-Bong Lou**Scripps Research, La Jolla, USA *Ni-Electrocatalytic Sulfinylation of Aryl Halides with SO2* |
| 4:30 PM | OA5 | **Michael Saley**University of Guelph, Guelph, Canada *Reduction of N-Arylsulfonylphthalimides* |
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| **Contributed Oral Communications****Session B** | ROZH 105 |  (Parallel session with **Contributed Oral Session A)** |
| **Chair: Marc MacKinnon** |
| 3:10 PM | OB1v | **Stéphane Perrio** ENSICaen–Unicaen, Caen, France*Synthesis of Cyclopentene-derived Spirooxindoles Enabled by an Organocatalytic Sulfinate Ammonium Ion-Pairing Approach* |
| 3:30 PM | OB2 | **Damian Antoniak**University of Warsaw, Warsaw, Poland*Novel Transformations of Nitroarenes Using Sulfur and Selenium Stabilized Carbanions* |
| 3:50 PM | OB3v | **Noah Bissonnette**Princeton University, Princeton, New Jersey*Decatungstate-Catalyzed C(sp3)–H Sulfinylation: Rapid Access to Diverse Organosulfur Functionality* |
| 4:10 PM | OB4v | **Patrick Walsh**University of Pennsylvania, Philadelphia, USA*Sulfenate Anions Organocatalysts* |
| 4:30 PM | OB5 | **Adam Riddell**University of Guelph, Guelph, Canada*N-Sulfanylimides as the Sulfur Source for Alkyl Allenyl Sulfoxides via [2,3]-Sigmatropic Rearrangement* |
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| 4:50 PM  |  |  |
| **In-person Poster Session 1** | ROZH Concourse |
|  | PA1 **Jeanne L. Bolliger**Oklahoma State University, Stillwater, USA*Synthesis of Sulfur Heterocycles by C–H Bond Functionalization of Disulfide Intermediates*PA2 **Ziad Moussa**United Arab Emirates University, Al Ain, UAE*Solvent- and Temperature-Controlled Regioselective Catalytic Synthesis of Potentially Bioactive Imidazolidineiminodithiones*PA3 **Stephen Lindahl**Brown University, Providence, USA*Thiomonosaccharide-based Donor Systems of Reactive Sulfur Species: Chemistry and Applications*PA4 **Janique Charlebois**University of Ottawa, Ottawa, Canada*Kinetic Study of Chloroacetamide Warheads Relating Reaction Rates to Thiol pKa*PA5 **Kazuya Kanemoto**Tohoku University, Sendai, Japan*Acid-Mediated Desulfurilative Sulfonylthiolation of Arenes Using SS-Morpholino Dithiosulfonate*PA6 **Lana Hiscock**Wilfred Laurier University, Waterloo, Canada*Luminescent Thioethers, Sulfoxides, and Sulfones Based on 1,4-Dicyano Substituted Aromatic Heterocycles.*PA7 **Mukaila Ibrahim**University of Guelph, Guelph, Canada*Chelating Thiatriazinyls as Potential New Spin-Bearing Ligands*PA8 **Scott Sammons**University of Guelph, Guelph, Canada*Diastereoselective Alkylations of N-Protected β-Amino Sulfenate Anions*PA9 **Brenden Fay** University of Guelph, Guelph, Canada*Towards the Synthesis of Sulfur-Containing Curcuminoids to Combat Alzheimer’s Disease* |
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| 7:00 PM |  |  |
| **‘On the town’****mixer** |  | **Beertown Public House, 433 Stone Road W** |
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| Tuesday July 19 |  |  |
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| 7:30-8:30 AM |  |  |
| **Virtual Poster session 1** |  |  |
|  | PA10v **Long Yin Lam**Hong Kong Polytechnic University, Hong Kong SAR, China *Copper-Catalyzed Green Synthesis of Aryl Thioethers and Sulfonamides*PA11v **Mihaela Gulea**University of Strasbourg, Strasbourg, France*Synthesis of New N/S-Containing Compounds by Pd-Catalyzed Tandem Reactions*PA12v **Jozef Drabowicz**Jan Dlugosz University, Czestochowa, Poland*Attempts to Oxidize Sulfides under Mechanochemical Conditions: Synthetic and Stereochemical Aspects*and posters PA1 through PA9 |
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| **Contributed Oral Communications****Session A** | ROZH 102 | (Parallel session with **Contributed Oral Session B)** |
| **Chair: J.-P. Chauvin** |
| 9:00 AM | OA6v | **Xuefeng Jiang**East China Normal University, Shanghai, China*Organosulfur Chemistry* |
| 9:20 AM | OA7v | **Bo Peng**Zhejiang Normal University, Jinhua City, China *The Rearrangement of Aryl Sulfoxides with Nitriles* |
| 9:40 AM | OA8v | **Jiajing Tan**Beijing University of Chemical Technology, Beijing, China *When Aryne Chemistry Meets Organosulfur Compounds* |
| 10:00 AM | OA9v | **Cong Ma**Hong Kong Polytechnic University, The Chinese University of Hong Kong, Hong Kong SAR, China*Thioether-Based Inhibitors of the Protein-Protein Interaction Between Bacterial RNA Polymerase and Sigma Factor as First-In-Class Antimicrobial Drug Candidates* |
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| **Contributed Oral Communications****Session B** | ROZH 105 |  (Parallel session with **Contributed Oral Session A)** |
| **Chair: Catherine Mineur** |
| 9:00 AM | OB6v | **Akio Kamimura**Yamaguchi University, Ube, Japan *Preparation and Physical Properties of Sulfur-derivatives of 2-Sulfanylhydroquinone Dimer* |
| 9:20 AM | OB7 | **Derek Schipper**University of Waterloo, Waterloo, Canada*Dehydration Polymerization and N-Oxide S-O Chalcogen Bonding for Conjugated Organic Materials* |
| 9:40 AM | OB8 | **Michela Lupi**University of Florence, Florence, Italy*Synthesis and Chiroptical Properties of Polymers Bearing Enantiopure Thia-Bridged Triarylamine[4]Helicene Pending Units* |
| 10:00 AM | OB9v | **Tanmay Chatterjee**Birla Institute of Technology and Science, Pilani (BITS Pilani),, Hyderabad, India*Development of Iodine-Catalyzed, Sustainable Sulfenylative Annulation Strategies with 2-Alkynyl Biaryls to Access 9-Sulfenylphenanthrenes and Polycyclic Heteroaromatics* |
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| 10:20 AM | Coffee |  |
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| **Plenary and Invited lectures** | ROZH 102 |  |
| **Chair: Ken Maly** |
| 10:40 AM | I3v | **Françoise Colobert**University of Strasbourg, Strasbourg, France*Atropisomerism: a gate to modern drugs* |
| 11:20 AM | I4 | **Stefano Menichetti**University of Florence, Florence, Italy*Thia-Bridged Triarylamine[4]Helicenes: Sulfur Synergism for Stereoselective Synthesis and Smart Materials* |
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| 12:00 PM | Lunch |  |
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| **Chair: Jakob Magolan** |
| 1:20 PM | P2 | **Derek Pratt**University of Ottawa, Ottawa, Canada*Radical Reactions of Hydropersulfides and Polysulfides: Applications in Synthesis, Industrial Chemistry and Relevance in Biology* |
| 2:20 PM | I5 | **Marcel Mayor**University of Basel, Basel, Switzerland *Sulfur: Interconnecting Functional Molecules and Solid-State Electrodes* |
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| 3:00 PM | Coffee |  |
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| **Contributed Oral Communications****Session A** | ROZH 102 |  (Parallel session with **Contributed Oral Session B)** |
| **Chair: France-Isabelle Auzanneau** |
| 3:20 PM | OA10 | **Guangdong Yang**Laurentian University,Sudbury, Canada *Hydrogen Sulfide Signaling and Muscle Health* |
| 3:40 PM | OA11v | **Timothé Maujean**Université de Strasbourg, Strasbourg, France*Catalyst-free Thia-Diels-Alder Click Reaction for the Labelling of Peptides* |
| 4:00 PM | OA12v | **Shawn Collins**Université de Montréal, Montréal, Canada*Syntheses of Alkynyl Sulfides* |
| 4:20 PM | OA13 | **Jiechun Zhu**Laurentian University, Sudbury, Canada*Hydrogen Sulfide Reverses TNFα-induced MMP Hyperactivity and Elastin Degradation in Smooth Muscle Cells* |
| 4:40 PM | OA14 | **Sarah Watt**University of Ottawa, Ottawa, Canada *Acrylamide Active Site Warheads: A Mechanistic Study of Thiol Addition to N-Phenyl Acrylamide, Relating Reactivity to Thiol pKa* |
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| **Contributed Oral Communications****Session B** | ROZH 105 |  (Parallel session with **Contributed Oral Session A)** |
| **Chair: Masahiro Miura** |
| 3:20 PM | OB10 | **Georg Manolikakes**TU Kaiserslautern, Germany *Synthesis of Sulfones and Sulfonamides via Visible-Light Driven Fixation of Sulfur Dioxide* |
| 3:40 PM | OB11 | **Ting Wang**State University of New York at Albany, Albany, USA*Synthetic Applications of Light Induced Sulfur Radicals* |
| 4:00 PM | OB12 | **Jonathan Andrews**University of Oxford, Stevenage, UK *Sulfinates from Amines: A Radical Approach to Alkyl Sulfonyl Derivatives via Donor-Acceptor Activation of Pyridinium Salts* |
| 4:20 PM | OB13 | **Zijun Wu**University of Ottawa, Ottawa, Canada*Radical Disulfuration Strategies Provide Unique Routes to Unsymmetrical Disulfide* |
| 4:40 PM | OB14v | **Elena Pruteanu**University of Bern, Bern, Switzerland*Radical Hydroalkylation Modification of Forskolin Complex Scaffold* |
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| 5:00 PM |  |  |
| **In-person Poster Session 2** | ROZH Concourse |
|  | PB1 **Marc MacKinnon**University of Regina, Regina, Canada *Sodium Sulfide on Coal Fly Ash (Na2S/CFA): A New Reagent for the Synthesis of Dithia[3.3]cyclophanes*PB2 **Matthew Hill**University of Guelph, Guelph, Canada*Synthetic Diversity in Sulfur Chemistry: Facile Pathways to Alternate Heteroatom Exchange Products*PB3 **Jonathan Andrews**University of Oxford, Oxford, UK*Rapid Access to Aza-Sulfur Functionality via Decarboxylative Radical Addition to Sulfinylamine Reagents*PB4 **Hayato Asanuma**Chuo University, Tokyo, Japan*Development of Bilateral Disulfurating Platform Molecule for Accessing Diverse Unsymmetrical Disulfides*PB5 **Adam Riddell**University of Guelph, Guelph, Canada*Examining the Role of Proximal Boron Functionalities in the S-Alkylation of Sulfenic Acid Anions*PB6 **Elizabeth Lach**McMaster University, Hamilton, Canada*Use of Hexafluoroisopropyl Sulfamate (HFIPS) for the Synthesis of Sulfamate- and Sulfamide Inhibitors of Metallo-β-Lactamases*PB7 **Nikki Ritchie**McMaster University, Hamilton, Canada*Hydrolysis of Vinyl Sulfides to Aldehydes via Intermediate Cyclic Acetals*PB8 **Zijun Wu**University of Ottawa, Ottawa, Canada*Radical Disulfuration Strategies Provide Unique Routes to Unsymmetrical Disulfide*PB9 **Matthew Smith**University of Guelph, Guelph, Canada*Computational Analysis of the Effect of Axial Chirality and Steric Bulk on Diastereoselective Alkylations of Allenyl Sulfenates*  |
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| Wednesday July 20 |  |  |
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| 7:15-8:15 AM |  |  |
| **Virtual Poster session 2** |  |  |
|  | PB10v **Shotaro Otaka**Tokyo Institute of Technology, Tokyo, Japan*Isolable Cysteine Sulfenyl Iodide Stabilized by a Molecular Cradle*PB11v **Mercedes Zurro**University of Alcalá, Madrid, Spain*Tunable Photocatalytic Oxosulfonylation and Chlorosulfonylation of Methylacrylamides. Synthesis of Bicalutamide*and posters PB1 through PB9 |
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| **Plenary and Invited lectures** | ROZH 102 |  |
| **Chair: Fabien Gagosz** |
| 8:40 AM | P3v | **Jinbo Hu**Chinese Academy of Sciences, Shanghai, China*Good Partnership between Sulfur and Fluorine: Sulfur-Based Fluorination, Fluoroalkylation, and Fluoroolefination Reagents for Organic Synthesis*  |
| 9:40 AM | I6 | **Thomas G. Back**University of Calgary, Calgary, Canada*Some New Aspects of Redox Chemistry of Sulfur and Selenium Compounds* |
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| 10:20 AM | Coffee |  |
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| **Chair: Georg Manolikakes** |
| 10:40 AM | I7v | **James Bull**Imperial College London, UK*Synthesis of aza-S(VI) Motifs as Design Options in Drug Discovery* |
| 11:20 AM | I8v | **Noureddine Khiar**CSIC/University of Seville, Seville, Spain *Smart Nanomaterials Derived from Amphiphilic Thioglycosides: Design, Synthesis and Bioapplications* |
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| 12:00 PM | Lunch | Boxed lunch for excursioners |
|  |  | Lunch for others at Creelman Hall |
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| 1:00 PM |  | Excursion to Niagara Falls |
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| Thursday July 21 |  |  |
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| **Plenary and Invited lectures** | ROZH 102 |  |
| **Chair: James Gauld** |
| 8:40 AM | P4v | **Ruma Banerjee**University of Michigan, Ann Arbor, USA*Sulfide Signaling and Complex II Reversal Using Fumarate as A Terminal Electron Acceptor* |
| 9:40 AM | I9v | **Zhengbiao Zhang**Soochow University, Suzhou, China*Thiol Chemistry for Precision Polymer Synthesis* |
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| 10:20 AM | Coffee |  |
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| **Chair: Derek Schipper** |
| 10:40 AM | I10 | **Daniel B. Werz**Technical University of Braunschweig, Braunschweig, Germany*Adventures with Sulfur and Selenium in Cyclopropane and Aryne Chemistry*  |
| 11:20 AM | I11 | **Hideki Yorimitsu**Kyoto University, Kyoto, Japan*Aromatic Metamorphosis of Thiophenes* |
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| 12:00 PM | Lunch | Creelman Hall |
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| 1:20 PM |  |  |
| **Contributed Oral Communications****Session A** | ROZH 102 |  (Parallel session with **Contributed Oral Session B)** |
| **Chair: Marcel Mayor** |
| 1:20 PM | OA15v | **Hendrik Mengers**Aachen University, Aachen, Germany*Measuring Volatile Sulfur-Containing Allicin in the Gas-Phase using SESI-Orbitrap MS* |
| 1:40 PM | OA16 | **Ryan Johnson**University of Guelph, Guelph, Canada*Unravelling the Chemosensing Mechanism by the 7-(Diethylamino)Coumarin-Hemicyanine Hybrid: Interplay Between Reactive Oxygen and Sulfur Species* |
| 2:00 PM | OA17 | **Clément Rulmont**Laboratory of Coordination Chemistry of CNRS, Toulouse, France. *New Specific Copper (I) Chelators in Alzheimer’s Disease Context* |
| 2:20 PM | OA18 | **Kristian Vasa**University of Florence, Florence, Italy*Synthesis of Ditocopheryl Sulfides and Disulfides* |
| 2:40 PM | OA19 | **Kenneth Maly**Wilfrid Laurier University, Waterloo, Canada*Synthesis, Self-Assembly, and Photodegradation of Triphenylene and Dibenz[a,c]anthracene Thioimides* |
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| **Contributed Oral Communications****Session B** | ROZH 105 |  (Parallel session with **Contributed Oral Session A)** |
| **Chair: Derek Pratt** |
| 1:20 PM | OB15v | **Boris Maryasin**University of Vienna, Vienna, Austria*In Silico Organosulfur Chemistry* |
| 1:40 PM | OB16v | **Jyoti Sharma**New Jersey Institute of Technology, Newark, USA*Computational Investigations on the Reactions of Elemental Sulfur with Nucleophiles* |
| 2:00 PM | OB17 | **Eric Nicol**University of Guelph, Guelph, Canada*Elimination Reactions of beta-Borosulfoxides: A Computational Investigation of Mechanism and Stability* |
| 2:20 PM | OB18 | **Dmitry Saraev**University of Ottawa, Ottawa, Canada*A General Model for Studying Thiol Oxidation in Aqueous Buffer* |
| 2:40 PM | OB19 | **Oliver Turque**Brooklyn College, City University of New York, New York, USA*A Twist on Disulfide S–S Bond Rotation Facilitated by Singlet Oxygen On- and Off-loading* |
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| 3:00 PM | Coffee |  |
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| **Contributed Oral Communications****Session A** | ROZH 102 |  (Parallel session with **Contributed Oral Session B)** |
| **Chair: Ting Wang** |
| 3:20 PM | OA20v | **Christian Knittl-Frank**University of Vienna, Vienna, Austria*Gold(I)-Catalyzed Cycloisomerization of Sulfur Ylides to Dihydrobenzothiepines* |
| 3:40 PM | OA21 | **Jeanne L. Bolliger**Oklahoma State University, Stillwater, USA*Oxidative Cyclization Leading to Charged Sulfur-Containing Tricyclic Heteroarenes* |
| 4:00 PM | OA22v | **Eoghan McGarrigle**University College Dublin, Dublin, Ireland*Synthesis of Pyridylsulfonium Salts and their Application in Sulfur-Mediated bis-Heteroaryl Synthesis* |
| 4:20 PM | OA23 | **Meghan Fragis**McMaster University, Hamilton, Canada*Improved Route to Thioalkyl Phosphonium Salts Enables Application of Vinyl Sulfides as Masked Aldehydes and Ketones in Fischer Indole Synthesis* |
| 4:40 PM | OA24 | **Adrian L. Schwan**University of Guelph, Guelph, Canada*Non-bonding Interactions can Direct Selective Sulfenate Alkylation Chemistry* |
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| **Contributed Oral Communications****Session B** | ROZH 105 |  (Parallel session with **Contributed Oral Session A)** |
| **Chair: Tom Back** |
| 3:20 PM | OB20v | **Roberto Tinelli** University of Vienna, Vienna, Austria*Direct Synthesis of α-Amino Acid Derivatives via Hydrative Amination of Alkynes* |
| 3:40 PM | OB21 | **Fabien Gagosz**University of Ottawa, Ottawa, Canada*Revisiting (3+2) Cycloadditions – Application to Thiophene Synthesis* |
| 4:00 PM | OB22v | **Michael Andresini**University of Bari Aldo Moro, Bari, Italy*Synthesis and Transformations of Sulfinamidines and Sulfinimidate Esters* |
| 4:20 PM | OB23 | **Masahiro Miura** Osaka University, Osaka, Japan*Utilization of Sulfur Function in Directed Catalytic C-H Transformation* |
| 4:40 PM | OB24v | **Damiano Tanini**University of Florence, Florence, Italy*Chalcogen-Catalysed on Water Oxidation of Anilines* |
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| 6:30 PM  | University Club, University Centre: **Gala Banquet** |
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| Friday July 22 |  |  |
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| **Plenary and Invited lectures** | ROZH 102 |  |
| **Chair: Jeanne Bolliger** |
| 9:00 AM | P5v | **Emanuela Licandro**University of Milan, Milan, Italy*Thiahelicenes: A Continuing Source of Inspiration* |
| 10:00 AM | I12v | **Mario Leclerc**Université Laval, Québec, Canada *Green Monomers and Polymers for Green Energy* |
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| 10:40 AM | Coffee |  |
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| **Chair: Stefano Menichetti** |
| 11:00 AM | P6 | **Kei Goto**Tokyo Institute of Technology, Tokyo, Japan*Design and Application of Molecular Cavities for Modeling Cysteine-derived Reactive Intermediates* |
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| 12:00 PM |  |  |
| **Closing Ceremonies** | ROZH 102 |  |