



# THIRD INTERNATIONAL SYMPOSIUM ON C-H ACTIVATION



Université de Montréal  
3200 Jean Brillant Street  
Montreal, QC H3T 1J4



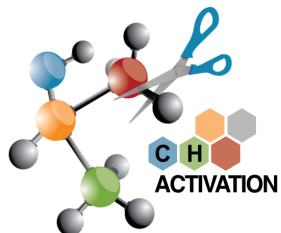
[ischa3.umontreal.ca](http://ischa3.umontreal.ca)

## SCIENTIFIC PROGRAM

MAY 30 – JUNE 2, 2016  
UNIVERSITÉ DE MONTRÉAL

Université   
de Montréal





Université de Montréal, Montréal, QC, Canada

THIRD INTERNATIONAL SYMPOSIUM  
ON C–H ACTIVATION

May 30 – June 2, 2016

MESSAGE FROM THE ISCHA3 CO-CHAIRS

On behalf of the organizing committee, we are very pleased to welcome you to Montréal, Québec, Canada for the third edition of the International Symposium on C–H Activation (ISCHA3). Following the successes of the two previous international symposia, held in Beijing, China (2012) and Rennes, France (2014), we will showcase this year the increasing breadth of scientific disciplines that benefit from technologies to activate C–H bonds. The symposium will feature invited lectures from world-class leaders in the fields of:

- ✓ Total Synthesis and Late Stage Functionalization;
- ✓ Materials Science and Energy Conversion;
- ✓ Emerging Technologies;
- ✓ Mechanistic Considerations of C–H Functionalization;
- ✓ Catalytic Methods for C–H Functionalization;
- ✓ Biomimetic C–H Functionalization.

ISCHA3 will bring together a dynamic group of scientists from around the world, drawing from both academia and industry. It will feature **41** oral presentations divided into **21** invited lectures and **20** short oral lectures. As well, **70** poster presentations will contribute to the program, delivered over **2** poster sessions. This symposium would not have been possible without the support of our generous sponsors, who will be showcased during the poster sessions, so please stop by to visit their booths.

Do not hesitate to contact us (or any of our dedicated co-organizers and volunteers) if you need assistance during your stay in Montréal. We hope that you will find some time to enjoy the vibrant and exciting city of Montréal.



*André Charette*

Prof. André B. Charette



*C. J. Li*

Prof. Chao-Jun Li

## LOCAL ORGANIZING COMMITTEE

**André B. Charette** (Co-Chair), Université de Montréal

**Chao-Jun Li** (Co-Chair), McGill University

**Hélène Lebel**, Université de Montréal

**Jean-Philip G. Lumb**, McGill University

**Audrey Moores**, McGill University

## SPECIAL THANKS TO OUR VOLUNTEERS

**Barbara Bessis**, Administrative Assistant, Université de Montréal

**France Desfossés**, Administrative Assistant, Université de Montréal

**Vanessa Kairouz**, CREATE–Continuous Flow Coordinator, Université de Montréal

**Clément Audubert**, Ph.D. Student, Université de Montréal

**Guillaume Benoit**, Ph.D. Student, Université de Montréal

**Alexanne Bouchard**, M.Sc. Student, Université de Montréal

**Maroua Khalifa**, Ph.D. Student, Université de Montréal

**Maxime Manneveau**, M.Sc. Student, Université de Montréal

**Sylvain Taillemaud**, Ph.D. Student, Université de Montréal

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**HAVE A GREAT SYMPOSIUM.**

## GENERAL INFORMATION

### REGISTRATION

Registration will take place from **11 am to 1 pm on May 30** at the Jean Brillant Building, next to the Auditorium Room **B-2285** (2<sup>nd</sup> floor). All attendees must wear their name badge on site at all times.

### VENUES

Lectures will be presented in the Auditorium Room **B-2285**, located on the 2<sup>nd</sup> floor of the Jean Brillant Building at Université de Montréal. The poster sessions will be held in the corridors adjacent to the Auditorium Room **B-2285**.

### COCKTAIL DINNER

The welcome cocktail dinner will be served from **7 pm to 9 pm on May 30** at **Cafeteria Chez Valère** (facing Auditorium Room B-2285). Drinks will be served along with appetizer bites.

### LUNCHES

Two lunches will be provided at **Cafeteria Chez Valère** on **May 31** and **June 1**. Please refer to the menu on the next page and use the tickets provided in your registration package.

### PHOTO TAKING

To keep a souvenir of your visit, a group picture has been scheduled on **June 1, right before lunch** (around 12:30 pm). Please be aware that other photos will be taken throughout the symposium. These photos will eventually be shared with attendees on the ISCHA3 website.




### DINNER CRUISE BANQUET

Those who have signed up for the dinner cruise will be offered transportation by bus from Université de Montréal to go the Old Port of Montréal. Boarding will start at **6:30 pm**, and the river boat will depart on time at **7 pm** (cruise will last 2 h 30).

### TRANSPORTATION

We encourage you to use public transportation to commute from Downtown Montréal (where most hotels are located) to Université de Montréal. Detailed directions can be found on our website in the accommodation and transportation sections.

### INTERNET

Wi-Fi will be available either via  **eduroam** (for academics) or via the **UdeM avec cryptage**   wireless network (for external industrials) using a temporary login and password available upon request at registration desk. Each seat in the auditorium room is equipped with an electrical socket so you can plug in your own laptop and stay connected.

### SMOKING POLICY

According to the Tobacco Act of Quebec, smoking (including electronic cigarette) is prohibited within all closed spaces of Université de Montréal. Further, the Act stipulates that *“smoking is prohibited outdoors **within a 9-meter radius** from any door leading to (...) a university building.”* **The only designated smoking area will be outside of the Jean Brillant Building (first floor).**

## LUNCH MENU



TUESDAY, MAY 31, 2016

**STARTER** Cream of Spinach

**MAIN DISH**  Veal Patty with Onions Fondue; *or*



Fillet of Sole Amandine with Lemon Sauce; *or*



Fresh Tomato and Feta Quiche

**SIDE DISH** Basmati Rice *or* Buttered Yellow Beans

**DESSERT** Dessert of the Day

**DRINK** Fountain Beverage, Coffee or Tea

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WEDNESDAY, JUNE 1, 2016

**STARTER** Minestrone Soup

**MAIN DISH**  Braised Duck Leg in Orange Sauce; *or*



Grilled salmon Fillet with Pesto; *or*



Vegetarian Couscous

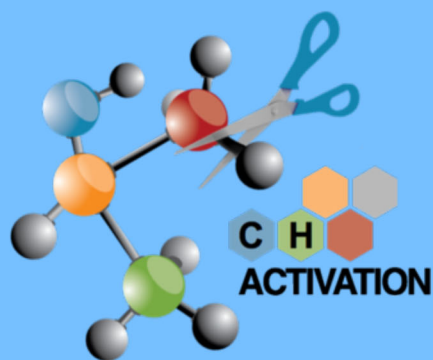
**SIDE DISH** Mashed Potato and Leek Puree *or* Mini Carrots with Chive Butter

**DESSERT** Dessert of the Day

**DRINK** Fountain Beverage, Coffee or Tea

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# THIRD INTERNATIONAL SYMPOSIUM ON C–H ACTIVATION

**Jean Brillant Building, Room B-2285**  
3200 Jean Brillant Street  
Montréal, QC H3T 1J4



Street View of Jean Brillant Building

## HOW TO GET TO ISCHA3

The ISCHA3 conferences will take place in auditorium room **B-2285** located on the 2<sup>nd</sup> floor of the Jean-Brillant Building.

### Access by public transportation



Bus: 11, 51, 119 166 or 368.

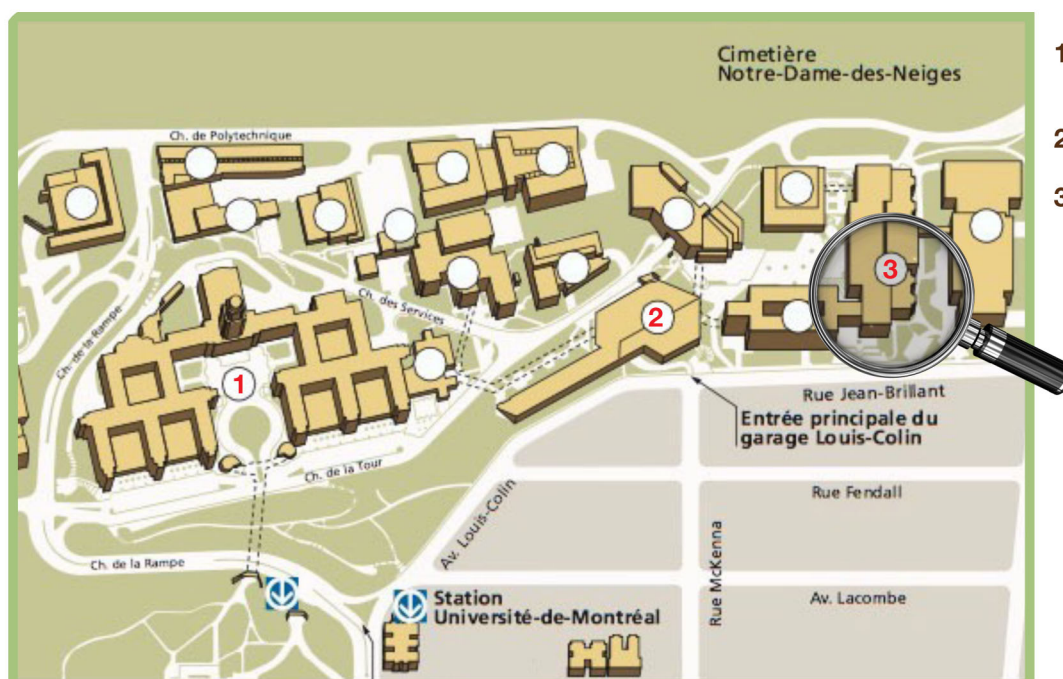


Université-de-Montréal Station (blue line).

### Visitor parking



Louis Colin Garage: 5255 Louis Colin Avenue





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We are currently recruiting scientists to work within our Process Chemistry department. Candidates must have a PhD in chemistry or chemical engineering and 0-10 years of industrial or other relevant professional experience.

**Come and visit  
our booth on  
Monday, May 30th  
at 6:15 PM or  
Tuesday, May 31st  
at 1:30 PM.**

[www.merck.com/careers](http://www.merck.com/careers)

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- ▶ Fast experiments
- ▶ Green chemistry

## ISCHA3 PROGRAM

MONDAY, MAY 30, 2016

11:00 am – 01:00 pm

REGISTRATION

01:00 pm – 01:15 pm

WELCOME AND OPENING REMARKS

► **SESSION CHAIR: HÉLÈNE LABEL**

01:15 pm – 02:00 pm

IL01

**RSC-Green Chemistry Sponsored Lecture**

**Christian Bruneau** (Université de Rennes 1)

*“Regioselective Functionalization of Saturated Cyclic Amines Involving  $sp^3C-H$  Bond Activation and Hydrogen Transfers”*



02:00 pm – 02:45 pm

IL02

**Fumitoshi Kakiuchi** (Keio University)

*“Chelation-Assisted Catalytic C-H Functionalization by Means of Electrochemical Oxidation”*

02:45 pm – 03:30 pm

IL03

**Frédéric-Georges Fontaine** (Université Laval)

*“Metal-Free Catalysts for the Borylation of Heteroarenes”*

03:30 pm – 03:45 pm

COFFEE BREAK

03:45 pm – 04:30 pm

IL04

**Theodore Betley** (Harvard University)

*“Iron Catalyzed C-H Bond Amination Using High-Spin Complexes”*

04:30 pm – 05:15 pm

IL05

**Timothy Cernak**, Merck Research Laboratories

*“Chemical Space Exploration with C-H Functionalization and Other Technologies”*

05:15 pm – 06:00 pm

IL06

**Mark Lautens** (University of Toronto)

*“C-H Activation: From the Catellani Reaction to Carbohalogenation and Beyond”*

06:00 pm – 06:15 pm

IN01

**Mostafa Hatam** (Chemical Abstract Service)

*“A One-of-a-Kind New Solution to Search and Compare the Largest Collection of Analytical as well as Synthetic Methods”*

06:15 pm – 07:15 pm

POSTER SESSION 1 (PO01 to PO35)

07:00 pm – 09:00 pm

WELCOME COCKTAIL DINNER (Cafeteria Chez Valère)

▶ **SESSION CHAIR: ANDRÉ B. CHARETTE**

- 08:30 am – 09:15 am **IL07** **John Hartwig** (University of California at Berkeley)  
*“Approaches to Selective Functionalization of C–H Bonds in Small and Complex Molecules”*
- 09:15 am – 10:00 am **IL08** **Rudi Fasan** (University of Rochester)  
*“Exploring the C(sp<sup>3</sup>)–H Space in Bioactive Molecules with Engineered P450 Catalysts”*
- 10:00 pm – 10:45 pm **IL09** **CREATE-Continuous Flow Science Sponsored Lecture**  
**C. Oliver Kappe** (University of Graz)  
*“Merging C-H Activation and Flow Technology – Enabling the Scalable Synthesis of Pharmaceuticals”*
- 
- 10:45 am – 11:00 am **COFFEE BREAK**
- 11:00 am – 11:45 am **IL10** **Shun-Ichi Murahashi** (Osaka University)  
*“Functionalization of sp<sup>3</sup>C-H bonds with Transition-metal Catalysts and Organocatalysts”*
- 11:45 am – 12:30 pm **IL11** **M. Christina White** (University of Illinois)  
*“The Functionalization of C–H Bonds”*

12:30 pm – 01:30 pm **LUNCH (Cafeteria Chez Valère)**

01:30 pm – 02:30 pm **POSTER SESSION 2 (PO36 to PO70)**

▶ **SESSION CHAIR: JEAN-PHILIP G. LUMB**

- 02:30 pm – 02:50 pm **OR01** **Peter Maligres** (Merck Research Laboratories)  
*“A Robust Kilo-Scale Synthesis of Doravirine”*
- 02:50 pm – 03:10 pm **OR02** **William D. Jones** (University of Rochester)  
*“Heterolytic C–H and N–H/O–H Activation by First Row Transition Metal Complexes”*
- 03:10 pm – 03:30 pm **OR03** **Giovanni Poli** (Université Pierre et Marie Curie)  
*“Intramolecular Pd-Catalyzed Dehydrogenative Allylations: Nucleopalladation vs Allylic C–H Activation”*
- 03:30 pm – 03:50 pm **OR04** **Xiuling Cui** (Huaqiao University)  
*“Some Strategies on the C–H Activation Avoiding External Oxidants”*
- 03:50 pm – 04:10 pm **OR05** **Naoto Chatani** (Osaka University)  
*“Nickel(II)-Catalyzed Methylation of C–H Bonds: Phenyltrimethyl-Ammonium Salts and Dicumyl Peroxide as Methylating Reagents”*
- 04:10 pm – 04:30 pm **COFFEE BREAK**

TUESDAY, MAY 31, 2016

► **SESSION CHAIR: JEAN-PHILIP G. LUMB (CONT.)**

- 04:30 pm – 04:50 pm      **OR06**    **A. Stephen K. Hashmi** (Heidelberg University)  
*“Gold Catalysis: New C–H Insertion Processes”*
- 04:50 pm – 05:10 pm      **OR07**    **Jean-Nicolas Desrosiers** (Boehringer Ingelheim Inc.)  
*“Nickel-Catalyzed C-3 Direct Arylation of Pyridinium Ions for the Synthesis of 1-Azafluorenes”*
- 05:10 pm – 05:30 pm      **OR08**    **Joanna Wencel-Delord** (Université de Strasbourg)  
*“Sulfoxide as Handful Tool for Stereoselective C–H Activation”*
- 05:30 pm – 05:50 pm      **OR09**    **Xavier Ottenwaelder** (Concordia University)  
*“Biomimetic Nitrene Transfer from Nitrosoarenes to Phenols”*
- 05:50 pm – 06:10 pm      **OR10**    **Jarl Ivar van der Vlugt** (University of Amsterdam)  
*“C–H Amination Involving Redox-Active Ligand Mediated One-Electron Transfer”*

WEDNESDAY, JUNE 1, 2016

► **SESSION CHAIR: AUDREY MOORES**

- 08:30 am – 09:15 am      **IL12**    **Thomas J. Colacot** (Johnson Matthey)  
*“Systematic Investigation of the Development of Iridium Precatalysts for C–H Borylation”*
- 09:15 am – 10:00 am      **IL13**    **Mohammad Movassaghi** (Massachusetts Institute of Technology)  
*“Complex Alkaloid Total Synthesis”*
- 10:00 am – 10:45 am      **IL14**    **CREATE-Green Chemistry Sponsored Lecture**  
**Magnus Rueping** (KAUST Catalysis Center)  
*“Visible Light Driven Photo(redox) Catalysis for C–H Functionalizations”*



- 10:45 am – 11:00 am      **COFFEE BREAK**
- 11:00 am – 11:45 am      **IL15**    **Zhang-Jie Shi** (Peking University)  
*“Oxidative Coupling Based on C–H Bond Activation”*
- 11:45 am – 12:30 pm      **IL16**    **Jin-Quan Yu** (The Scripps Research Institute)  
*“Ligand-Accelerated C–H Activation Reactions: Distance and Geometry”*
- 12:30 pm – 12:40 pm      **GROUP PICTURE TAKING**
- 12:40 pm – 01:40 pm      **LUNCH (Cafeteria Chez Valère)**

► **SESSION CHAIR: SHAWN COLLINS**

- 
- |                     |             |   |
|---------------------|-------------|---|
| 01:40 pm – 02:00 pm | <b>OR11</b> | <p><b>Timothy Hurst</b> (Queen's University)<br/> <i>"Total Synthesis of Isoprekinamycin and Prefluostatin via a Double Directed remote Metalation (DreM) Cyclization"</i></p>          |
| 02:00 pm – 02:20 pm | <b>OR12</b> | <p><b>Brenton DeBoef</b> (University of Rhode Island)<br/> <i>"The Role of Design, Serendipity, and Scientific Competition in the Development of Oxidative Coupling Reactions"</i></p>  |
| 02:20 pm – 02:40 pm | <b>OR13</b> | <p><b>Masahiro Miura</b> (Osaka University)<br/> <i>"Construction of Benzo-Fused Heteroarenes by Rhodium-Catalyzed Dehydrogenative Annulation"</i></p>                                  |
| 02:40 pm – 03:00 pm | <b>OR14</b> | <p><b>Basker Sundararaju</b> (Indian Institute of Technology Kanpur)<br/> <i>"Cobalt Catalyzed C–H Bond Functionalization"</i></p>  |
| 03:00 pm – 03:20 pm | <b>OR15</b> | <p><b>David L. Davies</b> (University of Leicester)<br/> <i>"Mechanistic Investigations of Catalytic C–H Functionalization: A Combined Experimental and Computational Approach"</i></p> |
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|---------------------|---------------------|--|
| 03:20 pm – 03:40 pm | <b>COFFEE BREAK</b> |  |
|---------------------|---------------------|--|
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- |                     |             |   |
|---------------------|-------------|---|
| 03:40 pm – 04:00 pm | <b>OR16</b> | <p><b>Chengjian Zhu</b> (Nanjing University)<br/> <i>"Photoredox Catalyzed C–H Bond Functionalization and Access to Fluorinated Compounds"</i></p>  |
| 04:00 pm – 04:20 pm | <b>OR17</b> | <p><b>Christophe Hoarau</b> (INSA &amp; Université de Rouen)<br/> <i>"Functional and Structural Diversity in Catalytic C–H Functionalization: Progress with <math>\alpha</math>-alcoylated Cinnamic Acids and Arylidene Imidazolones"</i></p> |
| 04:20 pm – 04:40 pm | <b>OR18</b> | <p><b>Zoltán Novák</b> (Eötvös University)<br/> <i>"Mild and Efficient Palladium-Catalyzed Direct Trifluoroethylation of Aromatic Systems by C–H Activation"</i></p>  |
| 04:40 pm – 05:00 pm | <b>OR19</b> | <p><b>In Su Kim</b> (Sungkyunkwan University)<br/> <i>"Rh(III)-Catalyzed Synthesis and Functionalization of N-Heterocycles via C–H Bond Activation"</i></p>   |
| 05:00 pm – 05:20 pm | <b>OR20</b> | <p><b>Akhilesh Kumar Verma</b> (University of Delhi)<br/> <i>"Novel Approach to Functionalized Carbazoles from Indoles/Styrylindoles via Pd(II)-Catalyzed Triple/Double C–H Functionalization"</i></p>  |
- 
- |                     |  |  |
|---------------------|--|--|
| 05:30 pm – 06:30 pm | <b>BUS TO OLD PORT AND BOARDING ON RIVER BOAT</b>    |  |
| 07:00 pm – 09:30 pm | <b>DINNER CRUISE BANQUET (Selected Participants)</b> |  |
-

► **SESSION CHAIR: CHAO-JUN LI**

- |                     |             |  |
|---------------------|-------------|--|
| 08:30 am – 09:15 am | <b>IL17</b> | <b>Henri Doucet</b> (Université de Rennes 1)<br><i>“Regioselectivity and Functional Group Tolerance in Pd Catalyzed Direct Arylation of (Hetero)Aromatics”</i>   |
| 09:15 am – 10:00 am | <b>IL18</b> | <b>Robert H. Crabtree</b> (Yale University)<br><i>“Blue Solution’: Hydrocarbon Oxidation and Structural Study”</i>   |
| 10:00 am – 10:45 am | <b>IL19</b> | <b>Kian Tan</b> (Novartis Institutes of Biomedical Research)<br><i>“Substrate and Catalyst Controlled Regioselective C–H Functionalization of Five-Membered Heterocycles”</i>                              |
| 10:45 am – 11:00 am |             | <b>COFFEE BREAK</b>  |
| 11:00 am – 11:45 am | <b>IL20</b> | <b>Christine K. Luscombe</b> (University of Washington)<br><i>“Preparation of an Arylated Alkylthiophene Monomer via C–H Activation for Use in PEPSI Catalyzed Controlled Chain Growth Polymerization”</i> |
| 11:45 am – 12:30 pm | <b>IL21</b> | <b>Douglas W. Stephan</b> (University of Toronto)<br><i>The Evolution from FLPs to Electrophilic Phosphonium Cations and Hydrodefluorination and C–F Functionalization</i>                                 |
| 12:30 pm – 12:45 pm |             | <b>CLOSING REMARKS</b>   |
-

POSTER SESSION 1  
Monday, May 30, 2016 from 6:15 pm to 7:15 pm

- 
- PO01** **Christopher J. Teskey** (University of Manchester)  
*"Ruthenium Catalyzed meta-Selective C–H Bromination"*
- 
- PO02** **Michael J. Lopez** (Osaka University)  
*"Catalytic C(sp<sup>3</sup>)-H Hydroalkylation of Internal Alkynes Using 2,6-Dimethyl-N-Heterocycles Catalyzed by a Cationic Alkylhafnium Complex"*
- 
- PO03** **Carolyn L. Ladd** (Université de Montréal)  
*"Palladium-Catalyzed Intramolecular Direct Functionalization of Cyclopropanes: Access to Novel Fused Heterocycles"*
- 
- PO04** **Manuel Hofer** (University of Zurich)  
*"Mechanistic Insights into the Au-Catalyzed Alkynylation of Arenes: Evidence for Au<sup>I</sup>/Au<sup>III</sup> Redox Catalytic Cycles"*
- 
- PO05** **Xi-Jie Dai** (McGill University)  
*"En Route to A Practical Primary Alcohol Deoxygenation"*
- 
- PO06** **Jennifer Melanson** (Queen's University)  
*"General Synthesis of Polysubstituted  $\beta$ -Naphthols by a Directed Remote Metalation Strategy"*
- 
- PO07** **Qingquan Lu** (Westfälische Wilhelms-Universität Münster)  
*"Control Over Organometallic Intermediate Enables Cp\*Co(III) Catalyzed Switchable Cyclization to Quinolines and Indoles"*
- 
- PO08** **Taejoo Jeong** (Sungkyunkwan University)  
*"A Convenient Synthesis of 3-Acyl-(2H)-Indazoles via C–H Addition and Cyclization of Azobenzenes with  $\alpha$ -Keto Aldehydes under Rh(III)-catalyst"*
- 
- PO09** **Pierre Garcia** (OmegaChem Inc.)  
*"Phosphoramidate Tantalum Catalyzed Hydroaminoalkylation: Room Temperature and Solvent Free C–H Functionalization of Amines"*
- 
- PO10** **Hayato Tsurugi** (Osaka University)  
*"ortho-C–H Bond Vinylation of Arylimido Ligands Bridging Two Titanium Centers"*
- 
- PO11** **Johan Bartholoméüs** (Université de Montréal)  
*"C–H Propargylic Amination Using Rhodium Dimers"*
- 
- PO12** **Zhenni Ma** (École Polytechnique Montréal)  
*"Catalytic Partial Oxidation of Methane Over Pt/Rh Catalysts Supported on FeCralloy"*
- 
- PO13** **Christopher A. Bradley** (Mount St. Mary's University)  
*"Factors Dictating sp<sup>2</sup> and sp<sup>3</sup> C–H Bond Activation at Cp\*Co(I) Centers"*
-



POSTER SESSION 1  
Monday, May 30, 2016 from 6:15 pm to 7:15 pm

- 
- PO14** **Seth M. McAfee** (University of Calgary)  
*"C–H Bond Activation with a Silica-Supported Catalyst for the Synthesis of Extended pi-Conjugated Organic Small Molecules for Use in Organic Electronics"*
- 
- PO15** **Antoine Douchez** (Université de Montréal)  
*"Towards the Synthesis of 1,3,4-Benzotriazepin-2-ones and Pyrrolo[1,2][1,3,4]benzotriazepin-6-ones Turn Mimics"*
- 
- ~~**PO16** **Bhavin V. Dipaliya** (National Institute of Pharmaceutical Education and Research)  
*"Transition Metal Catalyzed Direct Ortho-Aroylation of Arene C–H Bonds Through Aerobic Oxidative Coupling Reaction"*~~
- 
- PO17** **Kenneth Virgel N. Esguerra** (McGill University)  
*"A General Platform for the Synthesis of 1,2-Oxy-Amino Arenes by a Bio-Inspired Coupling of Phenols and Amines"*
- 
- PO18** **Craig W. Cavanagh** (University of Manchester)  
*"Iron-Mediated Oxidative C–H Coupling of Arenes and Alkenes Directed by Sulfur: A Novel Route to Dihydrobenzofurans"*
- 
- PO19** **Emna Azek** (Université de Montréal)  
*"Computational Mechanistic Study of Rhodium-Catalyzed C–H Amination Reactions Using N-Mesyloxycarbamates"*
- 
- PO20** **Jabrane Jouha** (Université d'Orléans/Université Sultan Moulay Slimane)  
*"One-Pot Synthesis of Polysubstituted Tetrahydronaphthyridines via Michael Addition and Inverse Electron Demand Diels–Alder Reaction"*
- 
- PO21** **Étienne Rochette** (Université Laval)  
*"Recent Development in the Metal-Free Catalytic Csp<sup>2</sup>-H Bond Activation and Borylation by Frustrated Lewis Pairs"*
- 
- PO22** **Satyasheel Sharma** (Sungkyunkwan University)  
*"Rh(III)-Catalyzed Allylation of Enol Carbamates with Allylic Carbonates"*
- 
- PO23** **Connor Yap** (University of Nottingham)  
*"Metal-Catalyzed trans-Carbometallative Cyclizations of Alkynyl Electrophiles"*
- 
- PO24** **Pierre Querard** (McGill University)  
*"Gold Catalyzed Tandem Reactions of Amide-Aldehyde-Alkyne Coupling and Cyclization Synthesis of 2,4,5-Trisubstituted Oxazoles"*
- 
- PO25** **Andreas Lerchen** (Universität Münster)  
*"Cobalt(III)-Catalyzed Redox-Neutral Synthesis of Unprotected Indoles Featuring an N–N Bond Cleavage"*
-

POSTER SESSION 1  
Monday, May 30, 2016 from 6:15 pm to 7:15 pm

- 
- PO26** **John Fu Cullen** (Queen's University)  
*"A Directed ortho Metalation Approach to Unusually Substituted Indazole Heterocycles"*
- 
- PO27** **Jihye Park** (Sungkyunkwan University)  
*"C7-Allylation of Indolines with Allylic Carbonates Under Rhodium Catalysis"*
- 
- PO28** **Thomas Johnson** (University of Toronto)  
*"Rhodium-Catalyzed Desymmetrative Redox Isomerization of Cyclohexa-2,5-Dienols"*
- 
- PO29** **Carina Sollert** (Uppsala University)  
*"Ruthenium Catalyzed C-H Silylation of Unprotected Gramines, Tryptamines and Their Congeners"*
- 
- PO30** **Maroua Khalifa** (Université de Montréal)  
*"Rhodium-Catalyzed Intramolecular C-H Amination: Synthesis of Chiral Oxazolidinones from N-Mesyloxycarbamates"*
- 
- PO31** **Sriram Tyagarajan** (Merck & Co.)  
*"Harnessing the Power of C-H Functionalization in Drug Discovery"*
- 
- PO32** **Jevgenijs Tjutris** (McGill University)  
*"An Electrophilic Approach to the Palladium-Catalyzed Carbonylative C-H Functionalization of Heterocycle"*
- 
- PO33** **Sang Hoon Han** (Sungkyunkwan University)  
*"Synthesis of Cinnolin-3(2H)-ones with Azobenzenes and  $\alpha$ -Diazo Esters under Rhodium Catalysis"*
- 
- PO34** **Sang Hoon Han** (Sungkyunkwan University)  
*"Direct Access to  $\beta$ -Aryl Carbonyl Compounds using Indolines and Allylic Alcohols via Rh(III)-Catalyzed C-H Alkylation"*
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- PO35** **Ritwika Ray** (Indian Institute of Technology Bombay)  
*"Efficient Iron Catalyzed Anti-Markonikov Oxidation of Terminal Olefins"*
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- PO36** **Abhinanda Kundu** (Osaka University)  
*"Direct Aminomethylation for an ortho-C–H Bond of N-Heteroaromatic Compounds Catalyzed by Triamido Complexes of Group 3 Metals"*
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- PO37** **Éric Lévesque** (Université de Montréal)  
*"General C–H Functionalization Strategy for the Synthesis of Full-Color-Tunable High Stokes Shift Benzo[a]imidazo[2,1,5-c,d]indolizines Fluorophores"*
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- PO38** **Krupal P. Jethava** (National Institute of Pharmaceutical Education and Research)  
*"Scope of Successive C–H Functionalizations in Arylpyridines: Utilizing Methyl Group as Latent Carbonyl Functionality"*
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- PO39** **Roopender Kumar** (University of Zurich)  
*"Synthesis and Reactivity of Stable Gold(III)-Fluorides"*
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- PO40** **Mingxin Liu** (McGill University)  
*"Silver Catalyzed Aerobic Oxidation of Aldehyde in Water"*
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- PO41** **Magnus J Johansson** (AstraZeneca R&D)  
*"Development of Heterogeneous and Homogeneous Catalysts for Directed C–Halogenation Reactions"*
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- PO42** **Taejoo Jeong** (Sungkyunkwan University)  
*"Rhodium(III)-Catalyzed C–H Amidation for the synthesis of N-Sulfonylamidated and Amidated Azobenzenes"*
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- PO43** **Taejoo Jeong** (Sungkyunkwan University)  
*"Rhodium(III)-Catalyzed Facile and Efficient Construction of C2-Amidated Indoles"*
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- PO44** **Maxime Manneveau** (Normandie Université)  
*"Palladium(II)-Catalyzed Direct Trifluoromethylthiolation of Unactivated C(sp<sup>3</sup>)-H Bonds"*
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- PO45** **Steffen Greßies** (Westfälische Wilhelms-Universität Münster)  
*"Cooperative Lewis Acid/Cp\*Co<sup>III</sup> Catalyzed C–H Bond Activation for the Synthesis of Isoquinolin-3-ones"*
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- PO46** **Wenbo Liu** (McGill University)  
*"A Redox Neutral and pH Neutral Transition Metal-Free Protocol to Synthesize Benzofuran"*
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- PO47** **Karthik Devaraj** (Uppsala University)  
*"Synthesis of Aryne Precursors via Catalytic C–H Silylation"*
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- PO48** **Yuxuan Li** (Concordia University)  
*"Mechanistic Insight into the Copper-Catalyzed Aerobic Oxygenation of Phenols"*
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- PO49** **Neeraj Kumar Mishra** (Sungkyunkwan University)  
*"Rh(III)-Catalyzed Alkylation and Indole Formation of Anilines with Diazo Compounds via C–H Bond Activation"*
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- PO50** **Ohhyeon Kwon** (McGill University)  
*"Exploring Ligand Effects in the Copper-Catalyzed Aerobic ortho-Oxygenation of Phenols"*
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- PO51** **Jihye Park** (Sungkyunkwan University)  
*"Site-Selective C-7 Acylation of Indolines with Aldehydes under Pd(II) Catalysis"*
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- PO52** **Jihye Park** (Sungkyunkwan University)  
*"C–H Functionalization of 2-Arylbenzothiazoles with  $\alpha$ -Diazo Compounds"*
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- PO53** **Szabolcs Kovács** (Eötvös University)  
*"Palladium Catalyzed Direct Trifluoroethylation of Aromatic Ureas with the Utilization of Hypervalent Iodonium Salt: Synthetic Applications and Mechanistic Studies"*
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- PO54** **Michael Schnürch** (Technische Universität Wien)  
*"Expansion of the Concept of Nonlinear Effects in Catalytic Reactions Beyond Asymmetric Catalysis"*
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- PO55** **Alain Y. Li** (McGill University)  
*"Microwave-Assisted Synthesis of Magnetically Recoverable Silver-Iron Oxide (Ag-Fe<sub>3</sub>O<sub>4</sub>@CMC) Nanocatalysts for Carbonyl Compounds Hydrogenation"*
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- PO56** **Sang Hoon Han** (Sungkyunkwan University)  
*"Selective C–H Functionalization of Indolines and Indoles with Easily Accessible Cyano Source Using Rh(III) Catalyst"*
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- PO57** **Luis C. Misal Castro** (Osaka University)  
*"Chelation-Assisted Nickel-Catalyzed Oxidative Annulation via Double C–H Bond Activation/Alkyne Insertion Reaction"*
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- PO58** **Corinne Gosmini** (École Polytechnique – Université Paris-Sarclay)  
*"Cobalt-Catalyzed Reductive Cross-Coupling Involving Benzyl Chlorides"*
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- PO59** **Sahaj Gupta** (Queen's University)  
*"An Iridium-Catalyzed ortho selective C–H Borylation of Tertiary Benzamides"*
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- PO60** **Lu Li** (McGill University)  
*"An Efficient Solar-Powered System for Reversible Hydrogen Storage based on Organic Hydrocarbons"*
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- PO61** **Nopporn Thasana** (Chulabhorn Research Institute)  
*"Synthesis of a Promising Antitumor Indolobenzazocin-8-one Using Palladium-Catalyzed Intramolecular C–H Activation"*
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POSTER SESSION 2

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- PO62** **R. Garrison Kinney** (McGill University)  
*"A Palladium Catalyzed Carbonylative C–H Functionalization of Arenes"*
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- PO63** **Radim Hrdina** (Justus-Liebig University)  
*"Pd(OAc)<sub>2</sub> Catalyzed C–H Bond Arylation of Diamondoids"*
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- ~~**PO64** **M'hamed Boudraa** (Université Mentouri de Constantine)  
*"C–S Bond Cleavage in Benzothiazole and S–S Bond Formation"*~~
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- PO65** **Zheng Huang** (McGill University)  
*"C–H Functionalization on ortho-Quinone and Its Applications on Synthesis"*
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- PO66** **Felix Klauck** (Westfälische Wilhelms-Universität Münster)  
*"Cross-Dehydrogenative Coupling of Thiols with Indoles Using a Cp\*Co(III)-Catalyst-Cu/Lewis-Acid Cooperative System"*
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- PO67** **Davit Zargarian** (Université de Montréal)  
*"Nickel-Mediated Cyclometallation of Aryl-phosphinites and Subsequent C–H Functionalization: Exploration of the Kinetics and Regioselectivity of C–H Nickelation"*
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- PO68** **Lukasz Pilarski** (Uppsala University)  
*"Boryl (Hetero)Aryne Precursors: Synthesis via C–H Activation and Orthogonal Reactivity"*
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- PO69** **Marc Moselage** (Georg-August Universität)  
*"C–H Alkenylations with Alkenyl Acetates, Phosphates, Carbonates and Carbamates by Versatile Cobalt Catalysis at 23 °C"*
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- PO70** **Sophie Régnier** (Université de Montréal)  
*"Expedient Synthesis of 3-Aminoimidazo[1,2-a]pyridines from  $\alpha$ -Aminopyridyl Amides"*
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