

Session 3 | Long Talks | Moderator: Rowshyra Castañeda

- 2:00 **Tim Jiang** | Zhao Lab, Biological Sciences
HSP90C Functions in the Thylakoid Targeting of PsbO1 Through Interaction with the Thylakoid Targeting Peptide
- 2:15 **Carina Carianopol** | Gazzarrini Lab, Biological Sciences
The SnRK1 Interaction Network Plays a Role in Salt Stress Response in Arabidopsis thaliana
- 2:30 **Cindy Yang** | Arhonditsis Lab, Physical & Environmental Sciences
Predicting the Likelihood of a Regime Shift in Cootes Paradise with Statistical & Mathematical Models

Session 3 | Short Talks | Moderator: Rowshyra Castañeda

- 2:50 **Samantha Lauby** | McGowan Lab, Biological Sciences
Temperature and tactile stimulation alter stress-related gene expression in the neonatal rat brain
- 2:57 **Lori vandenEnden** | Simpson Lab, Chemistry
Changes in Soil Organic Matter Composition with Long-Term Forest Soil Warming and Nitrogen Addition
- 3:04 **John Virgin** | Smith Lab, Physical & Environmental Sciences
The Influence of Atmospheric Halogenated Ozone Depleting Substances on Arctic Amplification
- 3:11 **Mouly Rahman** | McGowan Lab, Biological Sciences
Effects of Early Life Stress on Offspring HPA Axis Development and Behaviour
- 3:18 **Aime Kayembe** | Mitchell Lab, Physical & Environmental Sciences
Defining the Influence of Channel Complexity on the Distribution of Trace Metals in Suspended Sediments in Salt Impacted Urban Streams
- 3:25 Break (Meeting Place)

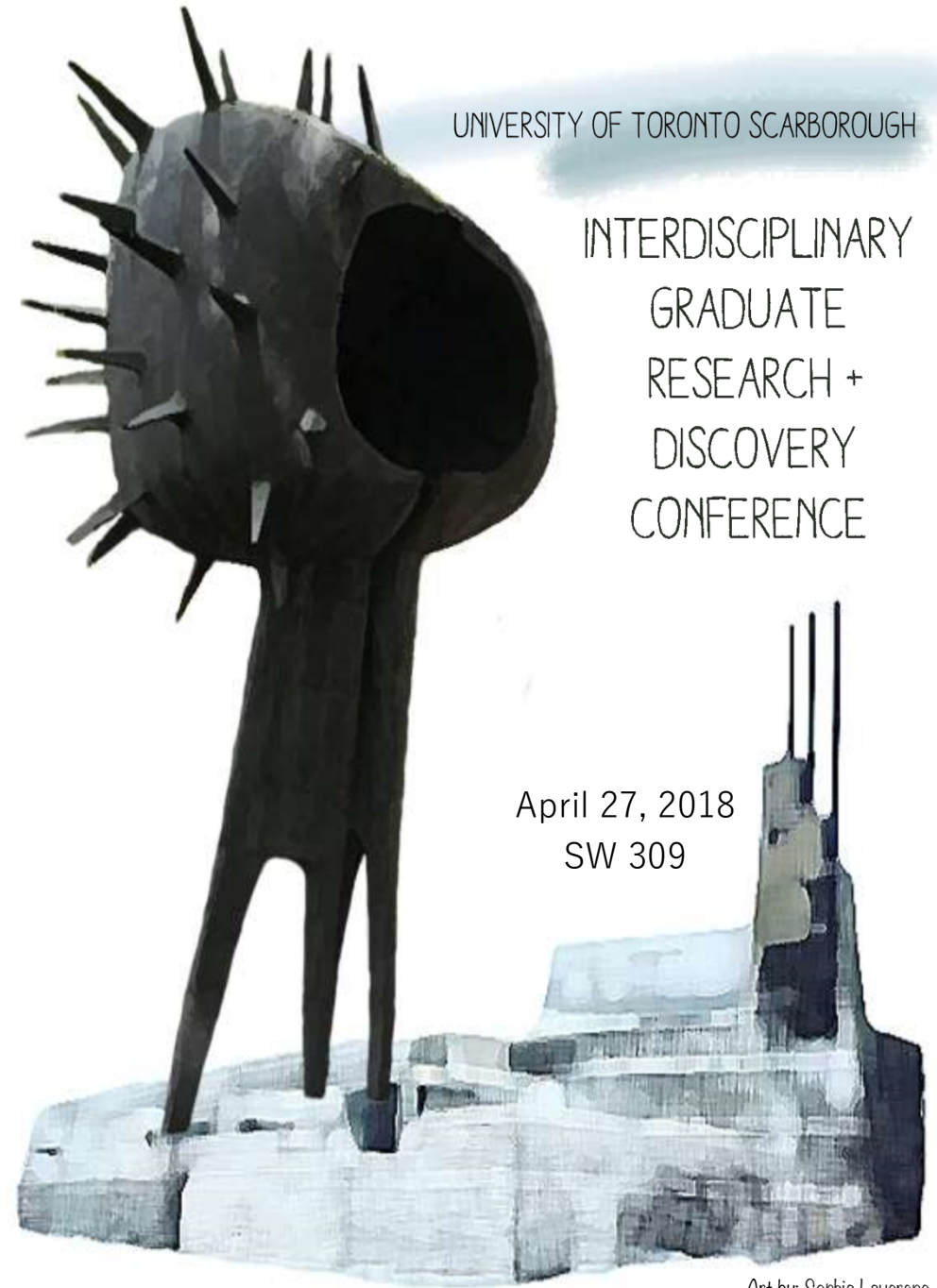
Session 4 | Long Talks | Moderator: Nishant Singh

- 3:40 **Darwin Sodhi** | Cadotte Lab, Biological Sciences
The Effect of Dog Strangling Vine on Invaded Communities
- 3:55 **Joshua Guerrero** | Lowman Lab, Physical & Environmental Sciences
The Influence of Curvature on Convection in a Temperature-Dependent Viscosity Fluid: Implications for the 2D and 3D Modeling of Moons
- 4:10 **Alexander Van Nynatten** | Chang/Lovejoy, Biological Sciences
Positive Selection and Red-Shifting Substitutions in the Rhodopsin Gene of a Globally Distributed Family of Fishes Making Evolutionary Transitions into Freshwater
- 4:25 **Noelle Stratton** | Klenk/Mandrak, Physical & Environmental Sciences
Selling Success: Portrayals of Invasive Species Management and the Potential to Under Estimate Risk
- 4:40 Closing Remarks
- 5:00 Social (Meeting Place)

UNIVERSITY OF TORONTO SCARBOROUGH

INTERDISCIPLINARY
GRADUATE
RESEARCH +
DISCOVERY
CONFERENCE

April 27, 2018
SW 309



Art by: Sophia Lavergne

IGRAD UTSC 

8:30 Registration & Breakfast (SW309/Meeting Place)

9:00 Opening Statements

Session 1 | Long Talks | Moderator: Lori VandenEnden

9:20 **Catherine Scott** | Andrade Lab, Biological Sciences
You Take the High Road and I'll take the Silk Road: Male Widow Spiders Find Faster by Following Silk Trails of Rivals

9:35 **Zoe Francis** | Inzicht Lab, Psychology
Neural and Behavioural Patterns of Within-Task and Between-Task Mental Fatigue

9:50 **Monica Mowery** | Andrade Lab, Biological Sciences
Understanding Invasiveness: An Integrated Assessment of Traits Leading to Invasion Success in Widow Spiders

10:05 **Juan Sebastian Vargas Soto** | Molnar Lab, Biological Sciences
Parasite Transmission Between Wild and Domestic Carnivores Around Protected Areas

10:20 Break (Meeting Place)

Session 2 | Long Talks | Moderator: Darwin Sodhi

10:35 **Brian Pentz** | Klenk Lab, Physical & Environmental Sciences
Can RFMOs Manage Fisheries During Climate Change?

10:50 **Vera Kovacevic** | M. Simpson Lab, Chemistry
Investigation of Daphnia magna Sub-Lethal Exposure to Organophosphate Esters in the Presence of Dissolved Organic Matter Using ¹H NMR-Based Metabolomics

11:05 **Conor Anderson** | Gough Lab, Physical & Environmental Sciences
An Efficient Method for Choosing the Best Sub-Ensemble of Climate Models for ΔT Projections

Session 2 | Short Talks | Moderator: Darwin Sodhi

11:25 **Katherine Balasingham** | Lovejoy Lab, Physical & Environmental Sciences
Detecting Evidence of Positive Selection in Key Osmoregulatory Genes in Freshwater and Marine Beloniformes

11:32 **Piryanka Sasidharan** | Zhang Lab, Chemistry
A New Family of Small Manganese(III) Porphyrin Based MRI Contrast Agents and the Analyses of the Binding to Human Serum Albumin

11:39 **Nishant Singh** | Andrade Lab, Biological Sciences
Social Evolution in Black Widow Spiders

11:46 **Huan Tong** | M. Simpson Lab, Chemistry
Influences on Quantity and Quality of Dissolved Organic Matter by Land-Use Differences

11:53 **Meghan Brady** | Arhonditsis Lab, Physical & Environmental Sciences
Understanding the Role of Sediment Diagenesis and How It's Captured by Mechanistic Models Applied to Lake Erie

12:00 Lunch & Posters Session (Meeting Place)

Poster 1 **Raj Bhagat** | Silcox Lab, Anthropology
Locomotor Agility and Hearing Sensitivity Reconstruction from the Inner Ear of Cantius sp.

Poster 2 **Bebe Fatima Sultani** | Simpson Lab, Chemistry
Forest Management Practices Alter Soil Organic Matter Degradation and Composition in the Silviculture Treatments for Ecosystem Management in the Sayward (STEMS) Experimental Forest

Poster 3 **Diana Bonea** | Gazzarrini/Zhao Lab, Biological Sciences
Investigation into the Post-Translational Regulation of Proteasome Complex Assembly in Arabidopsis thaliana During Abiotic Stresses

Poster 4 **Sadia Riaz** | Ito Lab, Psychology
Roles of Infralimbic and Prelimbic Cortices in Contextual Biconditional Discrimination Memory Retrieval

Poster 5 **David Nguyen** | Ito/Erb Lab, Psychology
Dissociative Effects of Dorsomedial Striatum D1 and D2 Receptor Antagonism in the Regulation of Innate and Learned Approach-Avoidance Conflict Decision-Making

Poster 6 **Vanessa Luzuriaga-Aveiga** | Weir Lab, Biological Sciences
The Role of Ecological Differentiation in Accelerating Trait Evolution in Neotropical Birds

Poster 7 **Dylan Yeates** | Ito/Lee Lab, Psychology
The Functional Segregation of the Dentate Gyrus in Learned Approach-Avoidance Conflict Decision Making

Poster 8 **Alexa Zayadi** | Sullan Lab, Physical & Environmental Sciences
Differential Mechanisms of Bacterial Adhesion in Response to Substrate Stiffness

1:00 **Keynote Talk**

Kevin Von Appen | Ontario Science Centre

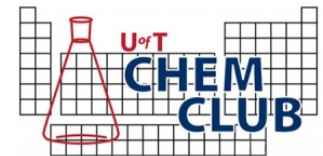
Playing with Strings: Science Communication Breakthroughs: Why We Need them, Why They're Hard (and Why They're So Much Fun)



Kevin von Appen | Director of Science Communication at the Ontario Science Centre

"My passion is around engaging people with science and technology and finding 'breakthrough' moments when true science communication can happen – and so I care a lot about what we've discovered about science literacy in Canada as well."

Kevin von Appen is Director of Science Communication at the Ontario Science Centre. He oversees the Centre's science writing and translation for exhibits and audiovisual presentations, online science communication initiatives, floor Hosts and operations for the KidSpark children's museum and the Science Centre's Weston Family Innovation Centre. He also directs the ongoing development of a "HotZone" featuring daily live presentations on current science news, and the Science Centre's "Inventorium" project, which features partner and start up-driven maker spaces. He began his career in the 1980s as a crime and environment reporter at The Hamilton Spectator and is a published playwright.



Office of the Vice-Principal Research

