
*7th Conference on Natural
Channel Systems*



NATURAL CHANNELS

**Balance:
Balancing Driving and
Resisting Forces to Achieve
Project Goals**

2023 Program

June 25th - 28th, 2023

University of Guelph

Guelph, Ontario

Welcome and Co-Chairs' Remarks

The day has finally arrived! After a global pandemic, postponed events and 5 years of planning we are so happy to welcome you to the 7th Natural Channel Systems Conference.

The theme for this event is Balance: Balancing Driving and Resisting Forces to Achieve Project Goals. These forces may be physical, social or financial. One thing is certain, working in the field of natural channels is a balancing act.

Balance is often posed as an 'either or'. This week, we challenge you to think of Balance as 'and also'. A natural channel has water and sediment that moves through the system, these are dynamic processes, and come with uncertainty. Balance requires us to be brave and embrace uncertainty to ensure we don't lose the 'and also'.

We are excited to have amazing keynote speakers to help frame the conversation around balance and to include diverse perspectives into the conference. We had a great response to the call for abstracts which has resulted in a full and informative schedule, with over 60 oral and poster presentations! This means there are numerous opportunities to engage with and learn about the current state of practice across the Natural Channels community. We challenge you to keep in your minds throughout this week – what could we have done better? What will we do better next time?

As co-chairs we feel that one thing we absolutely can do better as a community is to build stronger partnerships with our Indigenous neighbours. Gary Pritchard ~Giniw (Golden Eagle), the Principal Indigenous ecologist and engagement specialist at 4 Directions of Conservation Consulting Services has been invited to lead a discussion about Indigenous world views on reclaiming, restoring and rewilding nature and to examine how Western approaches to natural channel systems challenge Indigenous Rights.

In addition to state-of-the-science technical content and idea sharing, networking opportunities are a key reason for attending and participating in conferences. In response to feedback in the past, we are very much looking forward to the first Natural Channel Systems banquet on Tuesday evening. After dinner, we are excited to hear from Dr. Rob de Loë about how art can be an effective way to start conversations about the importance of natural channel systems. Rob's beautiful photographs will be on display throughout the conference as well as at the banquet.

We would sincerely like to thank Dr. Peter Wilcock, Dr. Paul Villard, Mark Heaton, Jeff Vandenberg and

the Royal Ontario Museum for providing training workshop opportunities this year. We hope that this has helped to meet the demand of our community for training related to sediment transport, fish passage design, and aquatic community surveying and identification techniques. We would also like to thank Mairin Scannell for leading a very engaging early career networking event.

Finally, thank you to our dedicated conference organizing committee, program committee, session leads and volunteers for your many and significant contributions to making this a successful event.

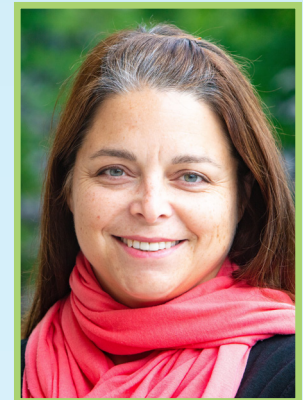
Sincerely,

Sally and Jackie



Sally-Beth Betts

Credit Valley
Conservation



Dr. Jaclyn Cockburn

University of Guelph

Conference Organizing Committee

Christina Bright	Toronto and Region Conservation Authority
Jeff Hirvonen	GeoProcess Research Associates
Jack Imhof	Trout Unlimited Canada (Retired)
Josie Mielhausen	GeoProcess Research Associates
Patrick Padovan	GEO Morphix Ltd.
Mariëtte Pushkar	Matrix Solutions Inc.
John Stille	Toronto and Region Conservation Authority

Monday, June 26, 2023	
8:00 - 8:45	Registration, Coffee, Continental Breakfast (Rozanski Foyer)
8:45 - 9:15	Introductory Remarks (Rozanski Hall - Room 101)
9:15 - 10:15	Keynote 1 (Rozanski Hall - Room 101) Silvia D'Amelio, Trout Unlimited Canada
10:15 - 10:40	Refreshment Break with Exhibitors (Rozanski Foyer)
10:40 - 12:10	Concurrent Sessions (Rozanski Hall - Rooms 101 and 103)
12:10 - 13:20	Lunch (Creelman Hall)
13:20 - 15:00	Concurrent Sessions (Rozanski Hall - Rooms 101 and 103)
15:00 - 15:25	Refreshment Break with Exhibitors (Rozanski Foyer)
15:25 - 17:15	Concurrent Sessions (Rozanski Hall - Rooms 101 and 103)
17:15 - 18:00	Poster Session [speed round ~17:30-17:55] (Rozanski Foyer)
18:00 - 19:30	Wine & Cheese (Rozanski Foyer)
Tuesday, June 27, 2023	
8:00 - 8:50	Registration, Coffee, Continental Breakfast (Rozanski Foyer)
8:50 - 9:00	Introductions (Rozanski Hall - Room 101)
9:00 - 11:00	Invited Engagement (Rozanski Hall - Room 101) Gary Pritchard, 4 Directions of Conservation Consulting Services
11:00 - 11:20	Refreshment Break with Exhibitors (Rozanski Foyer)
11:20 - 12:45	Concurrent Sessions (Rozanski Hall - Rooms 101 and 103)
12:45 - 14:00	Lunch (Creelman Hall)
14:00 - 15:05	Keynote 2 (Rozanski Hall - Room 101) Cynthia Graham, City of Hamilton
15:05 - 15:30	Refreshment Break with Exhibitors (Rozanski Foyer)
15:30 - 17:10	Concurrent Sessions (Rozanski Hall - Rooms 101 and 103)
18:30 - 21:30	Conference Banquet [ticket required] (Cutten Club)
Wednesday, June 28, 2023	
8:30 - 9:10	Registration, Coffee, Continental Breakfast (Rozanski Foyer)
9:10 - 10:15	Keynote 3 (Rozanski Hall - Room 101) Peter Wilcock, Utah State University
10:15 - 10:45	Refreshment Break with Exhibitors (Rozanski Foyer)
10:45 - 12:05	Concurrent Sessions (Rozanski Hall - Rooms 101 and 103)
12:05 - 12:15	Bio Break (Rozanski Hall)
12:15 - 13:15	Concurrent Sessions (Rozanski Hall - Rooms 101 and 103)
13:15 - 13:45	Presentation Awards, Thank Yous and Closing Remarks (Rozanski Hall - Room 101)

Keynote Speakers

Monday, June 26, 2023 - 9:15

Silvia D'Amelio

Implementing with balance: a restoration perspective



Silvia D'Amelio, Chief Executive Officer at Trout Unlimited Canada, Calgary, Alberta

As a prominent conservationist and aquatic biologist, Silvia holds a Bachelor's and Master's degree from the University of Toronto and Trent, respectively. She has worked as a fisheries biologist, researcher, restoration ecologist and senior manager in government, consulting and most notably in the conservation sector. In her 18 years at Trout Unlimited Canada, she has envisioned and spearheaded numerous fisheries research projects, restoration and educational programs. Her work has advanced society's ability to identify and remediate areas of aquatic degradation through the practical application of science and innovative techniques. Beyond the awards many of these projects have received, she notes that her greatest accomplishments are in the partnerships built, native fish populations re-established, water quality improvements in support of human health, habitat creation and protection of endangered species. Currently, Silvia holds the position of CEO with Trout Unlimited Canada where she mentors staff as well as volunteers across the country in the restoration and

conservation of aquatic habitats, influences policy and legislation at provincial and federal levels, unites stakeholders, educates the public on the importance of aquatic systems and propels change and growth in the conservation world.

Tuesday, June 27, 2023 - 9:00

Gary Pritchard ~Giniw (Golden Eagle)

Is Western Conservation still harming Indigenous Peoples?



Gary Pritchard ~Giniw (Golden Eagle), Principal, Indigenous Ecologist and Engagement Specialist, 4 Directions of Conservation Consulting Services

As a Conservation Ecologist & Indigenous Engagement/Placemaking Specialist from Curve Lake First Nation, Ontario, Gary has had the privilege to work on behalf of Indigenous peoples throughout Ontario and Canada. He has travelled and worked in almost 300 Indigenous communities throughout Canada and the northern United States. He has brought a wealth of knowledge to both his Indigenous and non-Indigenous clientele performing a wide variety of services including: Indigenous Community Planning, land-use/traditional knowledge studies, Indigenous lead conservation and restoration, Ecological Monitoring using Two-eyed Seeing, Indigenous Place-making, capacity building, expert testimony, mediation between western science and traditional science and subject matter expert on behalf of Indigenous communities.

Keynote Speakers Continued

Tuesday, June 27, 2023 - 14:00

Cynthia Graham

Stronger, Together



Cynthia Graham, landscape architect, Public Works, Environmental Services, City of Hamilton

Cynthia is a registered landscape architect who has worked in municipal practice for the City of Hamilton for 18 years, overseeing park, trail and open space design and construction. She leads a team of 13 professional staff to ensure that the residents and visitors to Hamilton have access to high quality outdoor recreation spaces, and recently was in an acting Director role for Environmental Services division which oversees all parks and cemeteries, forestry, and horticulture. She graduated from the University of Guelph with an undergrad in Environmental Science, and again 3 years later with a Masters in Landscape Architecture. Throughout her career, she has tried to marry both science and art to balance the needs of nature with the needs of humanity. She was an elected councillor for the Ontario Association of Landscape Architects (OALA) from 2017-2022, and is the co-chair of the Municipal Outreach Committee, as well a member of the executive and board of the Canadian Society of Landscape Architects (CSLA) as the chair of the Finance and Risk Management committee with her term to end in March 2023. In recent years, she and her team in Hamilton have pushed for Low Impact Development features, including stormwater capture on park development projects. In March 2020, her article on shoreline protection work in Hamilton was published in Municipal World magazine and in May 2021 about how parks are essential to healthy cities.

Wednesday, June 28, 2023 - 9:10

Peter Wilcock

Triple Beam: Balancing water and sediment drivers with channel behavior and project goals



Dr. Peter Wilcock, Dept. of Watershed Sciences, Utah State University

Prof. Wilcock received his PhD in Earth Science at MIT in 1987 and specializes in erosion and sedimentation processes and their application to stream and watershed restoration and management. His research spans grain-scale mechanics, sediment-channel interactions at the reach scale, and the control and management of sedimentation at the watershed scale. Applications include channel restoration, reservoir and channel response to dam removal, and reservoir operations for downstream channel maintenance. He has worked extensively in experimentation, field observation, and computer simulation of sediment systems and has published more than 100 peer-reviewed articles. Dr. Wilcock has provided expert and litigation consultation to industry and government agencies. After serving on the faculty of the Whiting School of Engineering at the Johns Hopkins University for 27 years, he joined Utah State University in 2014 as Head of the Watershed Sciences Department in the Quinney College of Natural Resources. Prof. Wilcock is a Fellow of the American Geophysical Union and received the Hans Albert Einstein Award from the American Society of Civil Engineers for outstanding contributions to the understanding of sediment transport in gravel-bed rivers.

Monday, June 26, 2023

	Room 101	Room 103
10:40 - 12:10	Channeling Innovation: From ideas to implementation (pt 1) Leads: Jason Krompart (Beacon Environmental) & Rhonneke Van Riezen (AECOM) 10:40 Towards an Integrated Approach to Natural Channel Decision Making: How data and modeling intertwine Les Stanfield, Ecohealth Solutions 11:10 An Integrated Approach for Classification and Characterization of Watercourses and Headwater Drainage Features John McDonald, Matrix Solutions Inc. 11:30 *An Analytical Approach for Natural Channel Design Decision-making and Morphology Monitoring Corey Dawson, Dalhousie University (Agricultural Campus) 11:50 Assessment of bed variability in Ontario streams Bryce Molder, GEO Morphix Ltd.	The Port Lands Flood Protection & Enabling Infrastructure Project: Waterfront Toronto, City of Toronto, Toronto & Region Conservation Authority Lead: Shannon Baker (Waterfront Toronto) 10:40 The Port Lands Flood Protection Infrastructure Project: Meaning Beyond the Channel Netami Stuart, Waterfront Toronto 10:50 Integrating Public Access With the New River System at the Port Lands Flood Protection and Enabling Infrastructure Project (PLFP) Neil Budzinski, Michael Van Valkenburgh Associates Inc., Landscape Architects 11:00 River channel and riparian wetland design considerations for the Port Lands Flood Protection Project (PLFP) Martin Melchior, Interfluve 11:10 Design and Construction of Risk Management Measures in the New Don River Valley Joey Herrington, Waterfront Toronto 11:20 Port Lands Flood Protection and Enabling Infrastructure Project: A Construction Perspective David Kirkland, EllisDon 11:30 Discussion

*Early career presentation

	Room 101	Room 103
13:20 - 15:00	Channeling Innovation: From ideas to implementation (pt 2) Leads: Jason Krompart (Beacon Environmental) & Rhonneke Van Riezen (AECOM) 13:20 *Cohesive Stream Boundaries of Southern Ontario: Characterization of Resistance to Erosion (What we're missing) Cal Jefferies, GeoProcess Research Associates and University of Waterloo 13:40 *Form Versus Bed Roughness: A Methodology Comparison of Southwestern Ontario Stream Designs Chris Muirhead, GHD Limited 14:00 Design of a Novel Bedload Transport Monitoring Station and Field Implementation in a Rural Stream in Southern Ontario Matthew Iannetta, GeoProcess Research Associates 14:20 Evaluating the use of action cameras to observe fish in shallow, ice-covered streams Lindsay Davis, GEO Morphix Ltd. 14:40 The Use of Drone Surveys in Fluvial Geomorphic Assessments and Channel Design Ian Smith & Ahmed Siddiqui, GEI Consultant Ltd.	Overcoming Unexpected Challenges: Design, implementation & post-construction Leads: Michael Lawson (GEO Morphix Ltd) & Jason Krompart (Beacon Environmental) 13:20 Channel restoration in a hurry: emergency restoration after large train derailments Dan Murray & Jeff Doucette, GHD Limited 13:40 After the Landslide – Lessons in Field Fit Design and Construction Heather Amirault, Stantec Consulting Ltd. 14:00 Restoring Habitat and a Natural Channel in a Gravel Extraction Area Ed Gazendam, Water's Edge 14:20 Anatomy of a Failed Stream Restoration Project in BC Brad Fairley, 5 Smooth Stones Restoration 14:40 Restoring Fish Passage in the Eagle River after 100 Years Lucas Warner, 5 Smooth Stones Restoration Inc.

*Early career presentation

Monday, June 26, 2023 Continued

	Room 101	Room 103
15:25 - 17:15	Design Parameters: Balancing approaches and setting (pt 1) Leads: Cailey McCutcheon (GeoProcess Research Associates) & Imran Khan (Momentum Earth Sciences Ltd.)	Success Through Infrastructure Failure: A review of natural channel restoration in urban systems Leads: John Stille (Toronto and Region Conservation Authority) and Dean Woolley (Active Innovation Research Inc.)
	Erosion Thresholds Revisited: Benchmarking Common Methodologies Against Sediment Transport and Temporal Morphologic Data in Southern Ontario Streams Ben Plumb, GeoProcess Research Associates	Integrating Urban Natural Channel Restoration and EcoPark Design: Solutions for Ageing Infrastructure and Outdated Practices Clifton Coppolino & Karley Cianchino, Toronto and Region Conservation Authority & City of Brampton
	Vegetation Impacts on Roughness and Stage Discharge Relationships in Small Vegetation Controlled Streams Patrick Padovan, GEO Morphix	A Trip Down Memory Lane: Insight Gained and Lessons Learned Jeff Prince, Matrix Solutions
	The Times They Are A-Changing: Design Discharge Considerations in a Changing Climate Scott Cowan, Stantec Consulting Ltd	Farewell Creek: A Design-Build Case Study in Achieving Natural Channel Goals Ed Gazendam, Water's Edge
	Understanding the driving and resisting forces on the urbanized, high-energy, cobble-boulder bedded, Ellis Creek Leif Burge, Stantec Consulting Ltd	Lessons Learned from Restoring Urban Streams in Metro Detroit Rob Myllyoja, Environmental Consulting & Technology, Inc. (ECT)
	Lessons Learned: Design Considerations for Long Term Stability and Function of Riffles in 'Natural' Channel Design Chris Cummings, Matrix Solutions Inc.	Urban Channel Design: Constraints, Opportunities and Lessons Learned Mariette Pushkar, Matrix Solutions Inc.

Poster Session

Speed Session Round - Hear poster presenters give a ~3 minute overview of their work

Monday, June 26, 2023 (17:15 - 18:00)		
17:30 - 17:35	*A river's connective tissue: Lab observations of particle pathways and riffle formation during floods	Lukas Mueller University of Waterloo
17:35 - 17:40	Modelling the effects of urbanization on river channel morphology	Victoria Barlow University of Western Ontario
17:40 - 17:45	*Investigating River Ice Thickness and Analyzing Ice Breakup Flooding Events for Canadian Rivers	Karl Grambow University of Guelph
17:45 - 17:50	*Amaolo Nature Sanctuary Stream and Floodplain Mapping and Restoration Design for the Hamilton Naturalists' Club	Camille Chouinard Niagara College
17:50 - 17:55	*Investigating river channel morphology and sediment transport using drone footage photogrammetry	David Nguyen University of Guelph
No speed session	Investigating ice-impacted fluvial processes in a small riffle-pool sequence in Southern Ontario	Karine Smith University of Guelph

*Early career presentation

Tuesday, June 27, 2023

	Room 101	Room 103
11:20 - 12:45	Role of Machine Learning & Modelling in Fluvial Geomorphology Leads: Adeyemi Olusola (York University) & Corey Dawson (Dalhousie University)	Success Through Resilience: Planning for resilient municipal infrastructure (pt 1) Leads: Hazel Breton, Daniel McCreery, Devin Coone & Geoff Cole (City of Toronto)
	11:20 *Predicting River Morphology Classification Cody Kupferschmidt, University of Guelph	11:20 Elements of a Toronto Geomorphic Systems Master Plan Environmental Assessment Daniel McCreery; Rob Amos; Jacob Ursulak, City of Toronto and Aquafor Beech Ltd
	11:40 Predicting river discharge characteristics using deep learning algorithms Adeyemi Olusola, York University	11:50 How Climate Change Will Impact Hydraulics and Erosion Rates in Toronto's Mimico Creek David Kynaston, Aquafor Beech Limited
	12:00 Performance Assessment of Permeable and Top-blocked Permeable Groins-in-series in Riverbank Protection and River Training, Using 2D/3D Hydrodynamic and Sediment Transport Modeling (TUFLOW): A Case Study along the Jamuna River, Bangladesh Dr. Bahar SM, AHYDTECH Geomorphic Ltd.	12:20 Multi Objective Complex Channel Design – The Van Dusen Stream Project Devin Coone; Bill Snodgrass; Emma Schiller, City of Toronto and Aquafor Beech Ltd
	12:20 Integrated Watershed Modelling for Evaluating Cost Effectiveness of Natural Infrastructure for Mitigating Road Washouts in Parkland County, Alberta Wanhong Yang, University of Guelph	<p style="text-align: right;"><i>This session ends at 12:50</i></p>

*Early career presentation

	Room 101	Room 103
15:30 - 17:10	Design Parameters: Balancing approaches and setting (pt 2) Leads: Cailey McCutcheon (GeoProcess Research Associates) & Imran Khan (Momentum Earth Sciences Ltd.)	Success Through Resilience: Planning for resilient municipal infrastructure (pt 2) Leads: Hazel Breton, Daniel McCreery, Devin Coone & Geoff Cole (City of Toronto)
	15:30 Channel realignment and terracing to address instability in agricultural channels with sand rich alluvium Ben Miller, GEO Morphix Ltd.	15:30 Two Emergency Watercourse Restoration Projects in the City of Toronto Geoff Cole, City of Toronto
	15:50 Designing in Balance using a Two-Stage Approach Mark Hartley, Nottawasaga Valley Conservation Authority	16:00 Toronto Stream Projects – a Contractor's Prerogative George Zeppieri; Hazel Breton; Bill Snodgrass, Dynex Construction and City of Toronto
	16:10 *Three Little Pigs: A Comparison of Wood, Strawbale and Natural Bank Toes in a Natural Channel Design Erin Kelly, Stantec Consulting Ltd.	16:30 Insights into Resilience from Toronto's Stream Restoration Projects Bill Snodgrass, City of Toronto
	16:30 Gully, Ravine or Broad Valley? Important Differences for Natural Channel Design in Southern Ontario Robin McKillop, Palmer	Discussion
16:50 *Post-Construction Monitoring for Natural Channels: Approaches and Considerations for Developing Effective Monitoring Programs Chase Konecny & Andrew Doherty, Stantec Consulting Ltd.		

*Early career presentation

Wednesday, June 28, 2023

	Room 101	Room 103
10:45 - 12:05	Ecohydraulics in Design: Fish passage and habitat suitability (pt 1) Leads: Paul Villard, Lindsay Davis & John Tweedie (GEO Morphix Ltd.)	Stream Power Based Approaches to Watershed Management Leads: Sally Betts (Credit Valley Conservation) & Christina Bright (Toronto and Region Conservation Authority)
	Restoring Atlantic Salmon to Lake Ontario: Current status of fish passage in key tributaries Mark Heaton, Ontario Streams	Influence of Land Use Change on Long-Term Hydraulic Geometry of Stream Channels: The Case for Southern Ontario, Canada Joseph R Desloges, University of Toronto
	*Evaluating the swimming ability of small-bodied schooling fish for better fish passage design Kendra Vorenkamp, SUNY University at Buffalo	Using stream power to investigate sediment transport patterns across the Credit River watershed Sally Betts, Credit Valley Conservation
	*Process-based restoration of salmon spawning habitat at a lake outlet Megan Iun, University of Waterloo	Quantifying Erosion Potential in the Watershed Planning Process using a Stream Power Based Approach in TRCA Watersheds Christina Bright, Toronto and Region Conservation Authority
	Evaluating fish passage through a sequence of modified rock weirs Josie Mielhausen, GeoProcess Research Associates	*Updates to SPIN: A tool for watershed-scale erosion sensitivity analysis in urban rivers using a stream power approach Priyanka Hire, McMaster University
		*Early career presentation

	Room 101	Room 103
12:15 - 13:15	Ecohydraulics in Design: Fish passage and habitat suitability (pt 2) Leads: Paul Villard, Lindsay Davis & John Tweedie (GEO Morphix Ltd.)	Building Resilient Watersheds as Natural Infrastructure for Climate Change Adaptation Leads: Roger Phillips (Matrix Solutions Inc. & University of Toronto), Joanna Eyquem (Intact Centre on Climate Adaptation, University of Waterloo) & Quentin Chiotti (Matrix Solutions Inc.)
	Restoring Fish Passage in Sixteen Mile Creek - A 10 year Restoration Plan for Drumquin Park, Milton Alex Meeker, Conservation Halton	Towards development of evidence-based guidelines for nature-based solutions to manage flood and erosion risk in Canadian river systems Sean Ferguson, National Research Council Canada
	The effectiveness of vortex rock weirs as design elements for smaller streams in Toronto and York Region John Tweedie, GEO Morphix Ltd.	Nottawasaga River Restoration Program: A case study in applying river morphology-based solutions for implementing large-scale fish habitat restoration Fred Dobbs, Nottawasaga Valley Conservation Authority
	Balancing Stream Corridor Design: Providing Greater Variability and Resilience versus Optimization for Species or Community Specific Ecological Targets Paul Villard, GEO Morphix Ltd.	"Scaling up" Nature-based Solutions at the right scale Joanna Eyquem, Intact Centre on Climate Adaptation

Did You Know? You Can Access Session Abstracts During the Conference

QR codes will be posted on signage outside of rooms 101 and 103 giving you access to the session abstracts.

Other Information

Award of Recognition

The Natural Channels Initiative recognizes outstanding individuals who have made significant contributions to natural channel systems. Through their efforts, they have demonstrated a commitment to advancing the field of natural channel systems through research, knowledge transfer, collaboration, implementation and/or innovation. Recipients have shown exemplary leadership, dedication, and personal commitment to natural channel systems. As it has been five years since our last event, the committee will be presenting four awards this year during the conference banquet.

Hazel Breton – City of Toronto
Fred Dobbs – Nottawasaga Conservation Authority
Jack Imhof – Trout Unlimited Canada
Bill Snodgrass – City of Toronto



Banquet Speaker: Dr. Rob de Loë

People implementing natural channel systems approaches often need the support of members of their communities and other stakeholders to do their work, but those people may lack technical knowledge needed to understand or care about that work. As your Conference Banquet speaker, Dr de Loë will talk about how art might be an effective way to start conversations about the importance of natural channel systems. Dr de Loë has taken a series of photographs in and around Guelph to facilitate his talk and these photographs will be on display through the conference as well as at the banquet.

Land Acknowledgement

Acknowledging the territory on which we learn and work honours the relationship between lands/waters and the Indigenous ancestors and stewards of them. As attendees at the 7th Natural Channels Conference we offer our respect to Attawanderon people as the University of Guelph rests on their traditional territory. We also acknowledge and offer our respect to Anishinaabe, Haudenosaunee and Métis neighbours as the university and community strive to strengthen our relationships with them. We also recognize the significance of the Dish with One Spoon Covenant to this land. The Dish with One Spoon Covenant is a peace agreement made between Indigenous nations before the Europeans arrived. It characterizes our collective responsibility to each other and Mother Earth -we should take only what we need, leave enough for others and keep the dish clean*. We encourage all attendees to explore the resources at <https://whose.land> to better understand and learn more about the places we live and work.

*This acknowledgement is adapted from the University of Guelph Indigenous Resource Centre and Student Life.



#NaturalChannels

Although nothing compares to good old fashioned face-to-face conversations - hit the next best thing: **social media!**

This conference is meant to act as a place of education, so let's broaden our opportunities beyond the physical borders!



Sponsors and Exhibitors

River Level (Exhibitors)



Stream Level (Exhibitors)



Wine & Cheese Reception



WiFi



Refreshment Break



Creek Level (Exhibitors)



Brook Level



Continental Breakfasts

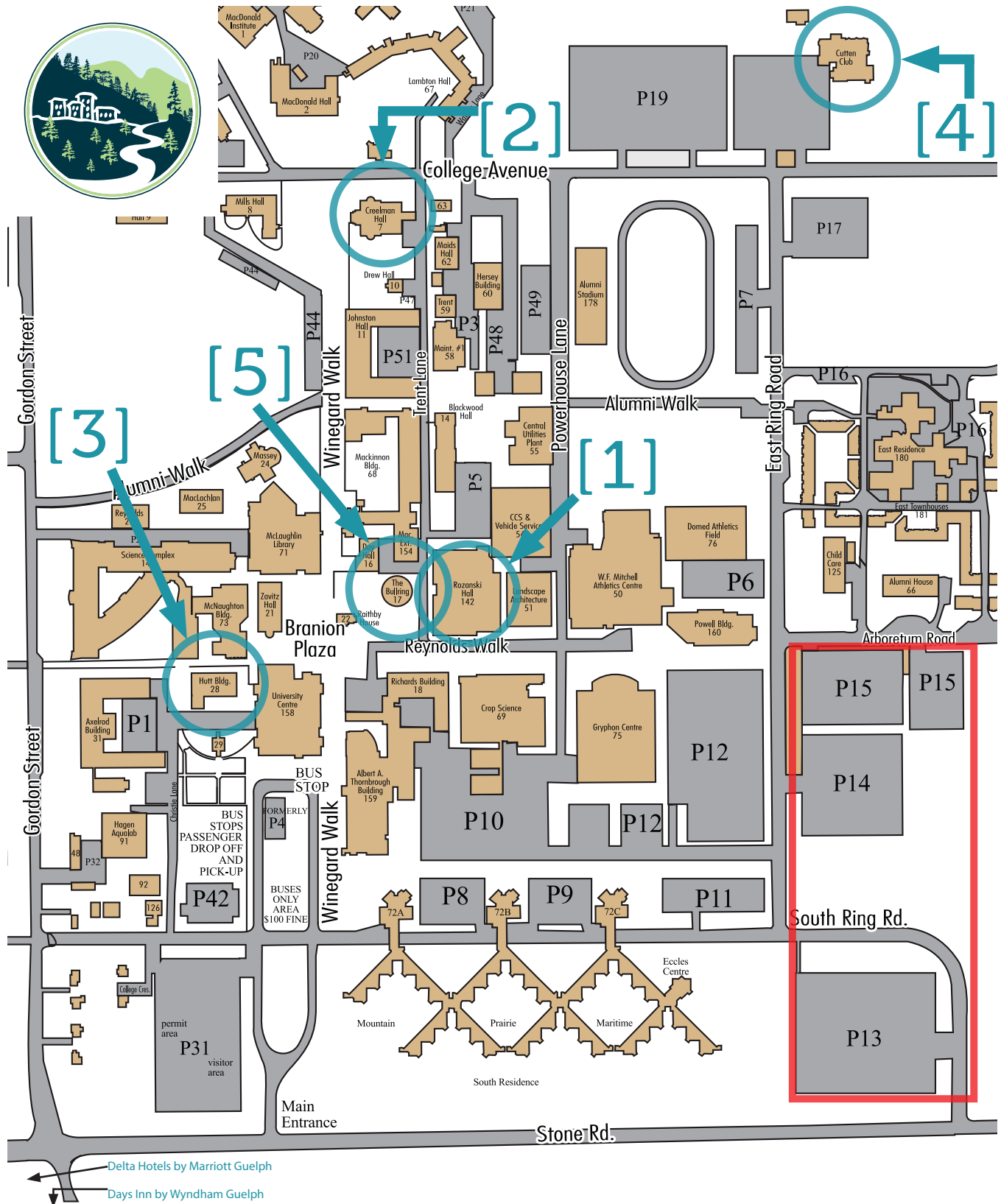


Banquet Wine



Monday Luncheon





- [1] Rozanski Hall** - Keynote Plenaries, Concurrent Sessions, Refreshment Breaks with Exhibitors, Poster Presentations, and Wine and Cheese Networking Reception take place in Rozanski Hall.
- [2] Creelman Dining Hall** - Lunches take place here on Monday June 26 and Tuesday June 27.
- [3] H.L. Hutt Building** - Saturday and Sunday Training session location.
- [4] Cutten Field** - Tuesday evening Banquet location.
- [5] The Bullring** - Sunday evening Ice-Breaker event.
- Parking** - Parking lots P13, P14, P15, and P30 (not shown on map) are available for delegates with purchased parking tickets.