

## 2019 HUMBOLDT KOLLEG ON THE THEME: TRANSITIONS

University of Ottawa, 75 Laurier Ave E, Ottawa, ON K1N 6N5

Thursday, May 9 - Sunday, May 12, 2019

### Day 1: Thursday 09 May – Arrival of delegates

7 pm – 9 pm: **Welcome Reception** Hosted by H.E. Sabine Sparwasser, Ambassador of the Federal Republic of Germany to Canada

**Location:** Ambassador's Residence, 290 Coltrin Rd, Rockcliffe Park, Ottawa ON K1M 0A5

**Signing Ceremony:** Extension of the Memorandum of Understanding between the University of Alberta and the German Alexander von Humboldt Foundation for the Humboldt Foundation Liaison Office in Canada (HFLOC)

### Day 2: Friday 10 May

**Location: uOttawa Tabaret Hall, Room TBT 333**

From 7:00 am	Registration
08:00 am – 08:30 am	Session Chair: Abdulmotaleb El Saddik, U. Ottawa – Formal welcome addresses <i>Sylvain Charbonneau, Vice President Research, U. Ottawa</i> <i>Sabine Sparwasser, Ambassador of Germany to Canada</i> <i>Katrin Amian, German Alexander von Humboldt Foundation</i> <i>Francois Cordeau, Vice President Transportation &amp; Manufacturing, National Research Council of Canada (NRC), Canada-Germany Science and Technology Cooperation Treaty Commission Co-Chair</i> <i>Matthias Ruth, Vice President Research, U. Alberta</i> <i>Chung-Wai Chow, University of Toronto, President of Humboldt Association of Canada (HAC)</i>
8:30-10:00 am	Panel Discussion in collaboration with the Royal Society of Canada Moderator: Chad Gaffield, Royal Society of Canada and uOttawa Panelists: Ted Hewitt, President SSHRC, Sabine Sparwasser, Ambassador of the Federal Republic of Germany to Canada, Carolyn Watters, National Research Council of Canada Chief Digital Research Officer, Denis Therien, Vice-President Research, Element AI Topic: Digital Tech, AI and Impact of Social Sciences – Perturbations and Limitations What technologies are going to be adopted by people? What are limitations vis a vis ethics/morals?

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10:00-10:30 am	Coffee break – Located in the open area TBT 3rd floor	
10:30 am - noon	<p>Session Chair: Robert Boyd – Plenary Talks (30 min each; multiple disciplines represented, mix of Humboldt Alumni and Canadians)</p> <ol style="list-style-type: none"> <li>1. Paul Corkum, Joint Attosecond Science Lab, U. Ottawa and National Research Council of Canada</li> <li>2. Chung-Wai Chow, Institute of Medical Science, U. of Toronto</li> </ol>	
Noon -1:30 pm	Lunch - Food served in the open area TBT 3rd floor	
1:30-3:00 pm	<p>Session Chair: Robert Boyd</p> <p>Keynote speakers:</p> <p>Gerd Leuchs, Max Planck Institute for the Science of Light, Erlangen</p> <p>Thomas Litt, Institute of Geosciences and Meteorology, U. of Bonn</p>	
3:00-3:40 pm (20 minutes each)	<p>Room TBT 325: <b>Humanities</b> – Session Chair: Gernot Wieland</p> <ol style="list-style-type: none"> <li>1. M. Herren; Transitioning from Science to Creationism: The Ancient Greek Experience</li> <li>2. T. Heyd; Pilgrimage Journey in Matsuo Bash and Alexander von Humboldt</li> </ol>	<p>Room TBT 315: <b>Science</b> – Session Chair: Zhong-Sheng (Simon) Liu</p> <ol style="list-style-type: none"> <li>1. A. D. Bandrauk; Attosecond Science- Future Control of the Quantum Nature of the Electron in Matter</li> <li>2. C. Enenkel; Proteasome Dynamics</li> </ol>
3:40-4:00 pm	Coffee break – Located in the open area TBT 3rd floor	
4:00-5:00 pm (20 minutes each)	<p>Room TBT 325: <b>Medicine</b> – Session Chair: Chung-Wai Chow</p> <ol style="list-style-type: none"> <li>1. A. Longtin; Brain Transitions Underlying Spontaneous Behaviour</li> <li>2. W. Hutchison; Transitions between rate and temporal coding of neurons in the brain and tremor in movement disorders</li> </ol>	<p>Room TBT 315: <b>Philosophy/Political Science</b> – Session Chair: Chris Orvig</p> <ol style="list-style-type: none"> <li>1. H. Adam, Political Transitions from Authoritarianism to Democracy</li> <li>2. Y. Fehige; Modern Science in Transition: Some Historical and Philosophical Perspective</li> <li>3. M. Fritsch; Transitions: space and time in philosophy</li> </ol>

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	<p>3. Julio J. Valdés; Following tumor transitions in breast cancer data using nonlinear virtual reality spaces</p>	
	<p>Room TBT 070 (Lower level of Tabaret Hall): <b>Science</b> – Session Chair: Dietmar Kennepohl</p> <ol style="list-style-type: none"> <li>1. H. Mantsch; A New Vision of our Physical World</li> <li>2. S. Pejovic; Fluid Mechanics Ambiguous - Yet 99 % of Electricity Storage in Water Reservoirs</li> <li>3. R. Smirnov; Bowley's law revisited</li> </ol>	<p>Room TBT 323: <b>Energy transition</b> – Session Chair: Rolf Mathewes</p> <ol style="list-style-type: none"> <li>1. S. Thiele; The Energy transition - from the population to renewable energy sources and energy storage</li> <li>2. S.R. Valluri; Transitioning from ‘Global warming’ peril: projected positive impact of thermoelectric materials!</li> <li>3. T. Baumgartner; Toward a Clean Energy Economy - Development of New Materials for Sustainable Energy Applications</li> </ol>
<p>5:00-7:00 pm</p>	<p>Reception hosted by Royal Society of Canada (cash bar available) Location: Tabaret Hall, Rotunda Area</p>	
<p><b>7:00 pm</b></p>	<p><b>Evening Event – Humboldt Attendees and Guests</b> Location: University of Ottawa, Tabaret Hall Room TBT 112; Session Chair: Jennifer Decker, National Research Council Canada (NRC)</p> <p>Lecture and Performance by Canadian Humboldtian <b>William Kinderman</b>, University of Illinois at Urbana-Champaign, Professor and inaugural holder of the Klein Chair in Performance Studies, School of Music, University of California, Los Angeles</p> <p>“From Desolate Strife to Ecstatic Illumination: Beethoven’s Last Sonata as an Experience of Transition” a lecture recital relating the notion of transition, and transformation, to Beethoven's final Piano Sonata in C minor, op. 111</p>	

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### Day 3: Saturday 11 May Location: uOttawa SITE Building, 800 King Edward Ave, Ottawa, ON K1N 6N5

8:30 am -9:30 am	<p>Session Chair: Chung-Wai Chow, HAC President</p> <p>Location: uOttawa SITE Building, Room STE H0104</p> <p>Humboldt Association of Canada Annual Board Meeting</p>	<p>Session Chair: Katrin Amian, Alexander von Humboldt Foundation, Germany</p> <p>Location: uOttawa SITE Building, Room STE J0106</p> <p>Information Sessions about German Alexander von Humboldt Foundation Programs and Awards</p>
9:30-10:00 am	<p>Plenary Talk – Session Chair: Abdulmotaleb El Saddik, U. Ottawa</p> <p>Location: uOttawa SITE Building, Room STE H0104</p> <p>Engineering – Jamal Deen, McMaster University – Smart Sensors, IoT and Data Analytics - Research, Trends and Opportunities</p> <p>Announcement from DAAD and DFG</p>	
10:00-11:00 am	<p>Coffee Break and Poster Session – SITE Building, STE Rotunda</p> <p>Competition for Ph.D. Students, Post-Docs and Early Career Researchers</p>	
<p>11:00 am -12:00 pm</p> <p>(20 minutes each)</p>	<p>SITE Building, Room STE F0126: <b>Science</b> – Session Chair: Andre Bandrauk</p> <ol style="list-style-type: none"> <li>1. C. Orvig; Harnessing Transitions Between Elements for Radiotheranostics</li> <li>2. J.-M. Menard; Ultrafast transitions in quantum materials</li> <li>3. R. Henriksen; Can anything transit the speed of light?</li> </ol>	<p>SITE Building, Room STE G0103: <b>Science</b> – Session Chair: Dennis Hall</p> <ol style="list-style-type: none"> <li>1. Rolf Matthewes; From fossils to forensics - a serendipitous journey</li> <li>2. A. Ramchandran; A new perspective on the wetting of a solid surface by the drops of an emulsion</li> <li>3. Zhong-Sheng (Simon) Liu: The Environmental Aftermath of Mining and Research Challenges</li> </ol>
	<p>SITE Building, STE J0106: <b>Medicine/Science</b> – Session Chair: William Hutchison</p> <ol style="list-style-type: none"> <li>1. A. Hicks; Implementation and Efficacy of the Physical Activity Guidelines for Adults with MS</li> </ol>	<p>SITE Building, Room STE H0104: <b>Societies in Transition</b> – Session Chair: Henry Mantsch</p> <ol style="list-style-type: none"> <li>1. A. E. Arias; Knowledge and science development is well supported and facilitated by immigration, individual and societal transitions</li> </ol>

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	<p>2. D. Kennepohl; Open Science: Higher Education in the 21st Century</p> <p>3. P. Selvadurai; Poro-hyperelastic Soft Tissues</p>	<p>2. M. Dack; Forgetting Nazism: Transitioning from Accomplices to Victims in Allied-Occupied Germany</p> <p>3. A. Chandler; Canada and the German Democratic Republic (GDR), 1968-1989: a Cold War Transition?</p>
12:00 pm	<p>Lunch – uOttawa SITE Building, STE Rotunda and STE H0104, 800 King Edward Ave, Ottawa, ON K1N 6N5</p> <p><b>Bus Transport to the Canada Science and Technology Museum</b> 1867 St Laurent Blvd, Ottawa, ON K1G 5A3</p>	
2 pm – 3:30 pm	<p>Lecture at Canada Science and Technology Museum (Auditorium Doors open at 1:30 pm)</p> <p>Session Chair: Chung-Wai Chow, U. Toronto</p> <p>Location: Canada Science and Technology Museum, 1867 St Laurent Blvd, Ottawa, ON K1G 5A3</p> <p>Plenary Talks and Q/A Discussion Session with Ph.D. Students, Post-Docs and Early-Career Researchers:</p> <ol style="list-style-type: none"> <li>1. <b>Lisa Leblanc</b>, Director General, and <b>David Pantalony</b>, Curator, Physical Sciences and Medicine, Canada Science and Technology Museum, Title: Transitioning from Old to New Museum</li> <li>2. <b>Alan Steele</b>, Canada’s Chief Metrologist and Director General, NRC Metrology, Title: Transition of the SI System of Units and the New Definition of the kilogram</li> </ol>	
3:30 – 4 pm	<p>Coffee break (Details TBD)</p>	
4 pm – 5 pm	<p>Group Discussions and Guided Tour of the Canada Science and Technology Museum</p> <p>- includes a Special Exhibit from Museum Archives relating to the History of Transition in Measurement Standards in Canada</p> <p>Location: Canada Science and Technology Museum, 1867 St Laurent Blvd, Ottawa, ON K1G 5A3</p> <p><b>Bus Transport to SITE building, University of Ottawa</b></p>	

**Day 4: Sunday 12 May – Departure of delegates**

**Location: uOttawa Student Residence**