IPP Annual General Meeting

Welcome

The meeting is scheduled to start at 11 am EDT on Friday 12 June
Important meeting information

- All participants should be muted unless called upon to speak
- We ask that you only activate your video if you are speaking (optional)
- Use the « raise hand » option/link at the bottom of your participant list to indicate that you would like to speak; we will call upon participants after the agenda item has been introduced
- Please use chat to post your name and affiliation as a record of attendance. Also post any questions or comments in the chat stream so these can be reviewed by the working group as they plan the follow-up actions
- We would like to record this meeting solely for the working group’s reference. Please let us know if you have any concerns by posting in chat to Host/co-Hosts only.
Agenda

• Directors Report to IPP Members and Council Election Results
• Update on NDRIO
• Update on SAP Major Resource Support Facilities
• Status of the Astroparticle Community Planning process
• Preparing for the IPP Brief to the LRP

Minutes of 2019 IPP AGM:
https://particlephysics.ca/about-ipp/governance
IPP Director’s Report
2020 Annual General Meeting of Individual Members

J. Michael Roney
12 June 2020
video-conference
<table>
<thead>
<tr>
<th>Agenda Item</th>
<th>Presenter</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSERC SAPES Chair Report</td>
<td>Thomas Gregoire</td>
<td>07:45 - 08:10</td>
</tr>
<tr>
<td>CFI Report</td>
<td>Mohamad Nasser-Eddine</td>
<td>08:10 - 08:25</td>
</tr>
<tr>
<td>TRIUMF Director Report</td>
<td>Jonathan Bagger</td>
<td>08:25 - 08:50</td>
</tr>
<tr>
<td>SNOLab Director Report</td>
<td>Nigel Smith</td>
<td>08:50 - 09:10</td>
</tr>
<tr>
<td>EuroStrategy Report</td>
<td>Brigitte Vachon</td>
<td>09:10 - 09:20</td>
</tr>
<tr>
<td>US Snowmass Process</td>
<td>Heather Logan</td>
<td>09:20 - 09:30</td>
</tr>
<tr>
<td>SAP LRPC</td>
<td>Adam Ritz</td>
<td>09:30 - 09:55</td>
</tr>
<tr>
<td>Adjourn</td>
<td></td>
<td>09:55 - 10:00</td>
</tr>
</tbody>
</table>
## IPP AGM Agenda

**Friday 12 JUNE 2020**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPP Director’s Report and Council Election Results</td>
<td>Michael Roney</td>
<td>08:00 - 08:25</td>
</tr>
<tr>
<td>Virtual Platforms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Update on New Digital Research Infrastructure Organization (NDRIO)</td>
<td>Randall Sobie</td>
<td>08:25 - 08:35</td>
</tr>
<tr>
<td>Virtual Platforms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Updates on Major Resources Support Facilities</td>
<td>Fabrice Retiere</td>
<td>08:35 - 08:50</td>
</tr>
<tr>
<td>Virtual Platforms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Status of Astroparticle Community Planning Process</td>
<td>Tony Noble</td>
<td>08:50 - 09:10</td>
</tr>
<tr>
<td>Virtual Platforms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preparation of IPP Brief for the Subatomic Physics Long Range Plan</td>
<td></td>
<td>09:10 - 09:30</td>
</tr>
<tr>
<td>Virtual Platforms</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2019-2020 IPP Council

- Erica Caden (2022) - SNOLAB
- Ken Clark (2020) - SNOLAB
- Blair Jamieson (2020) - Winnipeg
- Reda Tafirout (2021) - TRIUMF
- J. Michael Roney [Chair] (2023) - Victoria
- Bernd Stelzer (2022) - SFU
- Daniel Stolarski (2021) - Carleton

Many thanks to Ken and Blair for your contributions and dedicated service!
2020 IPP Council Elections

• Call for Nominations to Council announced April 30 by Adam Ritz, IPP Secretary-Treasurer.
• Nominations closed Monday, May 15

Candidates, in alphabetical order:

• Thomas Brunner (McGill & TRIUMF)
• Mark Hartz (TRIUMF & IPMU)
• Caio Licciardi (Laurentian)
• Rob McPherson (IPP-Victoria)

• Election took place electronically May 19-29
• Votes were tallied by independent staff
• 81 members cast at least one vote
2020 IPP Council Elections

- Call for Nominations to Council announced April 30 by Adam Ritz, IPP Secretary-Treasurer.
- Nominations closed Monday, May 15

Candidates, in alphabetical order:

- Thomas Brunner (McGill & TRIUMF)
- Mark Hartz (TRIUMF & IPMU)
- Caio Licciardi (Laurentian)
- Rob McPherson (IPP-Victoria)

Thank you Thomas, Mark, Caio and Rob for agreeing to stand for election and offer to serve our community in this important way.
2020 IPP Council Elections

2020 IPP Council Election Results:

- Thomas Brunner (McGill/TRIUMF) - 37 votes
- Mark Hartz (TRIUMF & IPMU) - 42 votes
- Caio Licciardi (Laurentian) - 16 votes
- Rob McPherson (IPP-Victoria) - 48 votes

Welcome Mark Hartz and Rob McPherson to the IPP Scientific Council for the next three years
### 2020-2021 IPP Council

<table>
<thead>
<tr>
<th>Name</th>
<th>Year</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erica Caden</td>
<td>2022</td>
<td>SNOLAB</td>
</tr>
<tr>
<td>Mark Hartz</td>
<td>2023</td>
<td>TRIUMF&amp;IPMU</td>
</tr>
<tr>
<td>Reda Tafirout</td>
<td>2021</td>
<td>TRIUMF</td>
</tr>
<tr>
<td>Rob McPherson</td>
<td>2023</td>
<td>IPP - Victoria</td>
</tr>
<tr>
<td>J. Michael Roney [Chair]</td>
<td>2023</td>
<td>Victoria</td>
</tr>
<tr>
<td>Bernd Stelzer</td>
<td>2022</td>
<td>SFU</td>
</tr>
<tr>
<td>Daniel Stolarski</td>
<td>2021</td>
<td>Carleton</td>
</tr>
</tbody>
</table>
Activities of Council

Met 9 times this year – two in-person (one at CAP Congresses)

- 2 June 2019 – old and new Council in person -CAP congress in Burnaby
- 2 July 2019
- 8 August 2019
- 24 September 2019
- 7 November 2019
- 5 December 2019
- 19 January 2020 - IPP Summer Student selection; in person in Ottawa
- 23 March 2020
- 7 May 2020
- Next meeting - old and new Council in the coming week(s)
Activities of Council

Some Council Matters in 2019-2020

• National computing infrastructure concerns: New Digital Research Infrastructure Organization – ramping up to replace CFI-supported Compute Canada (see R. Sobie’s presentation)
  – HyperK approved as an IPP Project
• IPP Project reviews and reviews of other projects of interest to IPP members
  – HyperK approved as an IPP Project
• IPP Research Scientist programme
• Maintain IPP Summer Student programme: grow support from universities
• Launch the Early Career Theory Fellowship
• Continue limited support for conferences: leverages support from universities
• Engage with Astroparticle Physics Community planning process
• MRS Resources (See F. Retriere talk)
• Begin to engage with U.S. Snowmass process
• Preparing for upcoming Long Range Plan – work on Terms of Reference and IPP Planning process
## IPP Research Scientists

<table>
<thead>
<tr>
<th>Research Scientist (Starting year)</th>
<th>Project: w/data</th>
<th>Project in Construction Phase/Future</th>
<th>Host Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Francois Corriveau (1991)</td>
<td>ATLAS</td>
<td>ILC; ATLAS upgrade</td>
<td>McGill</td>
</tr>
<tr>
<td>Christopher Hearty (1994)</td>
<td>BABAR, Belle II</td>
<td></td>
<td>UBC</td>
</tr>
<tr>
<td>Nikolina Ilic (2019)</td>
<td>ATLAS</td>
<td>ATLAS upgrade; DUNE</td>
<td>Toronto</td>
</tr>
<tr>
<td>Robert McPherson (1997)</td>
<td>ATLAS</td>
<td>ATLAS upgrade</td>
<td>Victoria</td>
</tr>
<tr>
<td>Steven Robertson (2003)</td>
<td>BABAR, Belle II, ATLAS</td>
<td>ATLAS upgrade; MATHUSLA</td>
<td>McGill</td>
</tr>
<tr>
<td>Randall Sobie (1987)</td>
<td>ATLAS, Belle II, HEPNET</td>
<td>ATLAS upgrade</td>
<td>Victoria</td>
</tr>
<tr>
<td>Richard Teuscher (2005)</td>
<td>ATLAS</td>
<td>ATLAS upgrade</td>
<td>Toronto</td>
</tr>
<tr>
<td>Alexander Wright (2012)</td>
<td>SNO+, PICO</td>
<td>PICO, SNO+</td>
<td>Queen’s</td>
</tr>
</tbody>
</table>
New Individual Members Recommended by IPP Council this past year

Mathias Danniger—Experimentalist
PhD (2013) Stockholm University Faculty, SFU

Yue Zhang—Theorist
PhD (2009) Peking University Faculty, Carleton

Silvia Scorza—Experimentalist
PhD (2009) Université Claude Bernard Lyon Research Scientist, SNOLAB

Marie-Cécile Piro—Experimentalist
PhD (2012) Université de Montréal Faculty, Alberta

Several other applications will be considered at upcoming IPP Council Meeting
Included in most recent application for IPP MRS NSERC grant renewal following consultation with the IPP theory community - starts with the FY2019 award

Fellowships, awarded in national competition, enable outstanding theory PhD students and postdocs to be present for a period between two weeks and six months at an international university, laboratory, or institute.

Purpose: encourage scientific collaboration between theorists in Canada and those abroad and enhance the career prospects of junior researchers

More information about the fellowship:
https://particlephysics.ca/research-activities/early-career-theory-fellowship/?lang=en
Three IPP Early Career Theory Fellowships were awarded in 2019, the inaugural year

- Qingwen Wang: A PhD student at Waterloo/PI who visited Caltech
- Ningqiang Song: A postdoc at Queen’s who will be visiting the Niels Bohr Institute
- Abdulrahim Al Balushi: A PhD student at Waterloo who is currently visiting the Kavli Institute for Theoretical Physics, University of California, Santa Barbara

More information about the fellows and what they will be working on can be found at
https://particlephysics.ca/research-activities/ipp-early-career-theory-fellows/

The 2020 competition will be announced in the coming months once we know when travel bans are to be lifted.
IPP Summer Student Fellowships

• May and June in Canada with a subatomic physics project supported by NSERC USRA undergraduate student programme plus supervisor’s research grant; followed by July and August at CERN participating in the CERN summer school programme of daily lectures and hands-on research in afternoons
• CERN offers positions to non-member state countries ‘at cost’
• IPP pays for travel to CERN and stipend to augment USRA funding
• Gives Canadian students unrivalled opportunity to experience CERN’s International research environment
IPP Summer Student Fellowships

• Contributions now coming from McGill, Alberta, Victoria, Toronto, Carleton
• Each provided $20k in funding to this programme to support students from their home institute or being supervised by a faculty at their home institute.
• Some funding agreements up for renewal
• McDonald Institute also contributing funds
• More university players are encouraged to join this effort
IPP Summer Student Fellowships

- IPP Scientific Council identifies excellent students from across Canada in very competitive environment
- IPP RS Steven Robertson manages this programme
- In 2020 44 applicants – seven students selected:
  - 3 BC, 1 Alberta, 2 Ontario, 1 Quebec
  - Students supervised at Carleton, SFU, Toronto, McGill & UVic before going to CERN
    - 1 finalist from non-particle physics university
    - 34% of applicants are female, 2 of 7 finalists are female

- Particular encouragement to non-CERN experiments to take students in first two months
  - 2020 projects are in ATLAS, Belle II, MoEDAL, P-One
## IPP Summer Students 2020

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Undergrad</th>
<th>Supervision</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>Matthew Ens</td>
<td>Victoria</td>
<td>SFU (Danniger)</td>
</tr>
<tr>
<td></td>
<td>Gillian Godden</td>
<td>UBC Okanagan</td>
<td>Victoria (Roney)</td>
</tr>
<tr>
<td></td>
<td>Peter Kaloyanis</td>
<td>McGill</td>
<td>McGill (Vachon)</td>
</tr>
<tr>
<td></td>
<td>Patrick Li</td>
<td>Alberta</td>
<td>Alberta (Pinfold)</td>
</tr>
<tr>
<td></td>
<td>Lucy Liu</td>
<td>Toronto</td>
<td>Toronto (Sinervo/Curtin)</td>
</tr>
<tr>
<td></td>
<td>Michael Sloan</td>
<td>Carleton</td>
<td>Carleton (Bellerive)</td>
</tr>
<tr>
<td></td>
<td>Alex Wen</td>
<td>UBC</td>
<td>Toronto (Savard)</td>
</tr>
</tbody>
</table>
IPP Summer Student Fellowships
Impact of COVID-19

9 April: CERN 2020 Summer Student programme was cancelled

CERN is planning for ‘remote’ offerings this summer:

• ‘Hackathon’ CERN Webfest 27- 28 June
• Lecture programme 6 July to 7 August (to be confirmed)
• Workshops: intro 6 July (to be confirmed) with sessions in July (aim is to have ROOT, C++, Machine learning, and few more)

CERN considering possible 8 week experience in May-June 2021 for the summer 2020 cohort – assumes travel re-open by then.

IPP would fund this, but not all students will be able to take it up.

IPP Council considering a modest cash Fellowship for 2020 IPP Summer Students
Canadian particle physicists step up to the plate to help with 2020 Summer Students with Online Summer Student Software Tools Orientation

Wednesday May 6th, 10:00 am MT
UNIX and HPC
Speaker: Thomas McElroy (McGill)

Thursday May 7th, 10:00 am MT
Programming in C++
Speaker: Sumanta Pal (UAlberta)

Friday May 8th, 10:00 am MT
ROOT
Speaker: Chris Jillings (SNOLAB)

Monday May 11th, 10:00 am MT
GEANT4
Speaker: Aleksey Sher (TRIUMF)

Tuesday May 12th, 10:00 am MT
Python
Speaker: Pietro Giampa (TRIUMF)

Wednesday May 13th, 10:00 am MT
LabVIEW
Speaker: Chris Chambers (McGill)

Wednesday May 13th, 2:00 pm MT
PYROOT Crash Course
Speaker: TBD

Thursday May 14th, 10:00 am MT
SolidWorks/CAD
Speaker: Xiao Shang (McGill)

Friday May 15th, 10:00 am MT
Statistics and Error Analysis
Speaker: Scott Oser (UBC)

Many thanks to Thomas McElroy (McGill) for organizing this!
IPP Support for Conferences

- Council has a modest budget for contributions to Canadian particle physics conferences
  - focus: encouraging student participation
  - leverage of funds from other sources
- IPP Council decided to support the following conferences in the last year
  - TRISEP 2019
  - Lepton Photon August 2019 in Toronto
  - CUPC Nov 2019 - IPP table
  - CCUWIP Jan 2020 - IPP table
  - WNPPC 2020
  - Theory Canada 2020*
  - TIPP 2020 - Whistler*
  * Cancelled due to the COVID-19 pandemic
We now have a new IPP webpage that is a more current style....
The url is now particlephysics.ca (ipp.ca re-directs to this domain)
Communications with Government of Canada and Agencies

- Meetings with
  - ISED ADM Nipun Vats, Science and Research
  - NSERC Vice President Grants and Scholarships Danika Goosney
  - NSERC President Alejandro Adem
  - CFI CEO Roseann O'Reilly Runte
    (Also contacted Chief Science Advisor Mona Nemer)
- Call for coordination and collaboration across Agencies, now including NDRIO
- Call for completion of Naylor Report implementation – in particular life-cycle stewardship
- Follow-up on HL-LHC accelerator contribution from Canada – overall CERN-Canada engagement
Communications with Government of Canada and Agencies

• Call for transparency in the process by which new NSERC Discovery Grant funds are allocated across disciplines for the sake of transparency.

• Advocate for additional funding into the Subatomic Physics Envelope more aligned with increases to NSERC’s Discovery programs it received from the Government of Canada in Budget 2018

• IPP and CINP now working together with NSERC as the bodies commissioning the Subatomic Physics Long Range Plan
  – see Adam Ritz’s presentation at CINP+IPP Joint Session yesterday

• Communicated with CFI about upcoming Long Range Plan inviting CFI to become one of the Commissioning Bodies
Focus of coming year for IPP

• **Continue to produce outstanding science !!!**
• Long Range Planning Process
• Maintain the IPP Base Programme
  – IPP Research Scientists
  – Summer Student programme: grow support from universities
  – Support for conferences: leverages support from universities
  – Early Career Fellowship Program
• Seek out additional sources of funding to augment NSERC MRS funds
  – IPP is now a Charitable Organization
  – Consider Annual Report
  – New website has been launched
• Build a database of HQP career paths after completion of training in the field
  – Part of Long Range Planning work
  – Include private sector success stories
• Build a database of Canadian industrial contracts awarded from funds granted to our field
Additional Material
<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Undergrad</th>
<th>Supervision</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>Samantha Connolly</td>
<td>Queen’s</td>
<td>Queen’s</td>
</tr>
<tr>
<td></td>
<td>Genevieve Hayes</td>
<td>Queen’s</td>
<td>UBC</td>
</tr>
<tr>
<td></td>
<td>Kaitlyn Liang</td>
<td>UT Mississauga</td>
<td>Toronto</td>
</tr>
<tr>
<td></td>
<td>Khaled Madhoun</td>
<td>Carleton</td>
<td>Carleton</td>
</tr>
<tr>
<td></td>
<td>Doris Rusu</td>
<td>Windsor</td>
<td>Victoria</td>
</tr>
</tbody>
</table>
## IPP Summer Students

<table>
<thead>
<tr>
<th>Year</th>
<th>Name</th>
<th>Undergrad</th>
<th>Supervision</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>Rabinovitch</td>
<td>Yale</td>
<td>TRIUMF</td>
</tr>
<tr>
<td>2008</td>
<td>Guindon</td>
<td>Ottawa, Waterloo, Waterloo, Queens</td>
<td>Carleton, Toronto, McMaster, Carleton</td>
</tr>
<tr>
<td></td>
<td>Illic</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Louca</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>McCarthy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>Abouzeid</td>
<td>Carleton, Victoria, McGill, McGill, UBC</td>
<td>Toronto, Victoria, Toronto, McGill, McGill</td>
</tr>
<tr>
<td></td>
<td>Dupuis</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feige</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LaFlamme</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>Krizka</td>
<td>Simon Fraser, UBC, Acadia, Victoria, Victoria</td>
<td>Toronto, Victoria, TRIUMF, Victoria, Montreal</td>
</tr>
<tr>
<td></td>
<td>Moult</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LeBlanc</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pachal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Picard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year</td>
<td>Name</td>
<td>Undergrad</td>
<td>Supervision</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------------------</td>
<td>----------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>2011</td>
<td>Buck Burke Collins-Fekete McDonald Portillo</td>
<td>Carleton Victoria Laval MacMaser Alberta</td>
<td>Carleton UBC Carleton Simon Fraser Alberta</td>
</tr>
<tr>
<td>2012</td>
<td>Abdel-Aziz Bluteau Boone Friedl Killick</td>
<td>Toronto Acadia UBC Carleton Carleton</td>
<td>Toronto TRIUMF UBC Carleton Carleton</td>
</tr>
<tr>
<td>2013</td>
<td>Abidi Hedrich Layden Rettie Waslaski</td>
<td>Toronto Thompson Rivers Waterloo Ottawa UBC</td>
<td>Carleton/UofT SFU McGill TRIUMF Toronto</td>
</tr>
<tr>
<td>2014</td>
<td>Noordeh Quenneville Strickland</td>
<td>York SFU Memorial</td>
<td>York SFU Victoria</td>
</tr>
<tr>
<td>Year</td>
<td>Name</td>
<td>Undergrad</td>
<td>Supervision</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------</td>
<td>------------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>2015</td>
<td>Dicaire Grant Morningstar Ojeda</td>
<td>Ottawa UBC, McMaster, McGill</td>
<td>Carleton TRIUMF, Toronto, McGill</td>
</tr>
<tr>
<td>2016</td>
<td>Abernathy Fascione Krupa Tomalty Trischuk</td>
<td>Queens, UBC/Okanagan, McGill, Toronto</td>
<td>St. Mary’s Queens, TRIUMF, Toronto, Carleton</td>
</tr>
<tr>
<td>2017</td>
<td>Barron Kudzman-Blais Richardson Wandler Egan</td>
<td>Alberta, Toronto, Laurentian, McGill</td>
<td>Alberta, UBC, SNOLab, Alberta, UBC</td>
</tr>
<tr>
<td>2018</td>
<td>Lia Formenti Luke Polson Joshua Sandor Jon Corbett Gareth Smith</td>
<td>Guelph, Victoria, McGill, Queen’s, Carleton</td>
<td>ATLAS at McGill, Belle II at Victoria, Theory at McGill, SuperCDMS at Queen’s, ATLAS at Carleton</td>
</tr>
</tbody>
</table>