

# IPP Annual General Meeting

## Welcome

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

# IPP Annual General Meeting

## 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

# Joint CINP-IPP Meeting Agenda

THURSDAY 11 JUNE 2020  
Zoom video-conference

<b>NSERC SAPES Chair Report</b> <i>Virtual Platforms</i>	<i>Thomas Gregoire</i> 07:45 - 08:10
<b>CFI Report</b> <i>Virtual Platforms</i>	<i>Mohamad Nasser-Eddine</i>  08:10 - 08:25
<b>TRIUMF Director Report</b> <i>Virtual Platforms</i>	<i>Jonathan Bagger</i> 08:25 - 08:50
<b>SNOLab Director Report</b> <i>Virtual Platforms</i>	<i>Nigel Smith</i>  08:50 - 09:10
<b>EuroStrategy Report</b> <i>Virtual Platforms</i>	<i>Brigitte Vachon</i>  09:10 - 09:20
<b>US Snowmass Process</b> <i>Virtual Platforms</i>	<i>Heather Logan</i>  09:20 - 09:30
<b>SAP LRPC</b> <i>Virtual Platforms</i>	<i>Adam Ritz</i>  09:30 - 09:55
<b>Adjourn</b> <i>Virtual Platforms</i>	09:55 - 10:00

# IPP AGM Agenda

Friday 12 JUNE 2020

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

# IPP Council

## 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

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- 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

# IPP Council

## 2020-2021 IPP Council

- Erica Caden (2022) - SNOLAB
- Mark Hartz (2023) - TRIUMF&IPMU
- Reda Tafirout (2021) - TRIUMF
- Rob McPherson (2023) - IPP - Victoria
- J. Michael Roney [Chair] (2023) - Victoria
- Bernd Stelzer (2022) - SFU
- Daniel Stolarski (2021) - Carleton

# 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)
- 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

Research Scientist (Starting year)	Project: w/data	Project in Construction Phase/Future	Host Institution
Francois Corriveau (1991)	ATLAS	ILC; ATLAS upgrade	McGill
Christopher Hearty (1994)	<i>BABAR</i> , Belle II		UBC
Nikolina Ilic (2019)	ATLAS	ATLAS upgrade; DUNE	Toronto
Robert McPherson (1997)	ATLAS	ATLAS upgrade	Victoria
Steven Robertson (2003)	<i>BABAR</i> , Belle II, ATLAS	ATLAS upgrade; MATHUSLA	McGill
Randall Sobie (1987)	ATLAS, Belle II, HEPNET	ATLAS upgrade	Victoria
Richard Teuscher (2005)	ATLAS	ATLAS upgrade	Toronto
Alexander Wright (2012)	SNO+, PICO	PICO, SNO+	Queen's

# 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

# IPP Early Career Theory Fellowship

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>



# IPP Early Career Theory Fellows

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

Year	Name	Undergrad	Supervision
2020	Matthew Ens Gillian Godden Peter Kaloyanis Patrick Li Lucy Liu Michael Sloan Alex Wen	Victoria UBC Okanagan McGill Alberta Toronto Carleton UBC	SFU (Danniger) Victoria (Roney) McGill (Vachon) Alberta (Pinfold) Toronto (Sinervo/Curtin) Carleton (Bellerive) Toronto (Savard)

# 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)

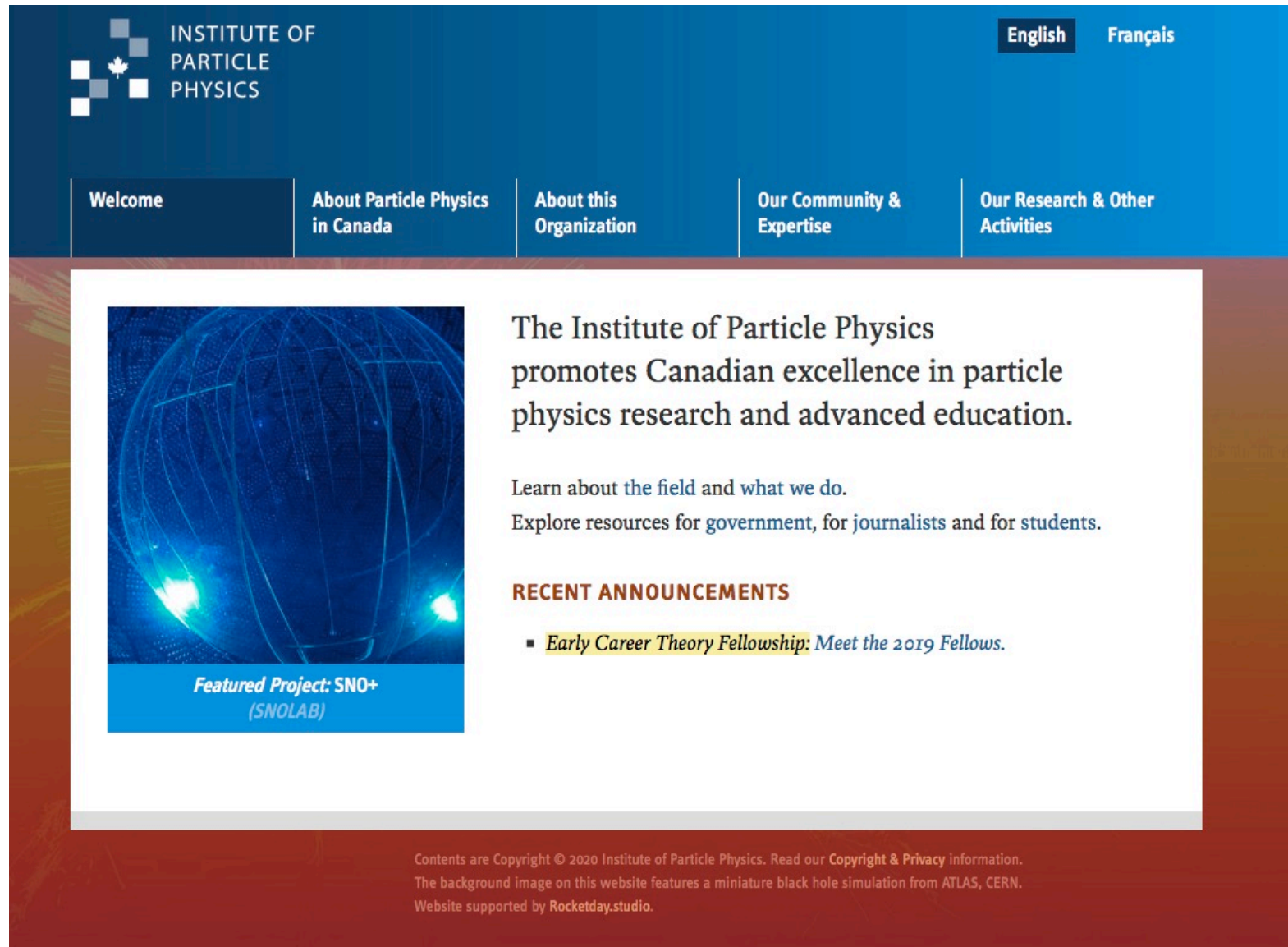
**Many thanks to Thomas McElroy (McGill) for organizing this!**

# 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)



The screenshot shows the new website layout. At the top left is the logo with the text "INSTITUTE OF PARTICLE PHYSICS" and "INSTITUT DE PHYSIQUE DES PARTICULES". To the right are language options "English" and "Français". Below this is a navigation bar with five items: "Welcome", "About Particle Physics in Canada", "About this Organization", "Our Community & Expertise", and "Our Research & Other Activities". The main content area features a featured project section on the left with an image of a particle detector and the text "Featured Project: SNO+ (SNOLAB)". To the right of this is a main heading: "The Institute of Particle Physics promotes Canadian excellence in particle physics research and advanced education." Below this heading are two lines of text: "Learn about the field and what we do." and "Explore resources for government, for journalists and for students." Underneath is a section titled "RECENT ANNOUNCEMENTS" with a single bullet point: "Early Career Theory Fellowship: Meet the 2019 Fellows." At the bottom of the page, there is a footer with copyright information: "Contents are Copyright © 2020 Institute of Particle Physics. Read our Copyright & Privacy information. The background image on this website features a miniature black hole simulation from ATLAS, CERN. Website supported by Rocketday.studio."

# 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

# IPP Summer Students 2019

Year	Name	Undergrad	Supervision
2019	Samantha Connolly Genevieve Hayes Kaitlyn Liang Khaled Madhoun Doris Rusu	Queen's Queen's UT Mississauga Carleton Windsor	Queen's UBC Toronto Carleton Victoria

# IPP Summer Students

Year	Name	Undergrad	Supervision
2007	Rabinovitch	Yale	TRIUMF
2008	Guindon Ilic Louca McCarthy	Ottawa Waterloo Waterloo Queens	Carleton Toronto McMaster Carleton
2009	Abouzeid Dupuis Feige LaFlamme Low	Carleton Victoria McGill McGill UBC	Toronto Victoria Toronto McGill McGill
2010	Krizka Moult LeBlanc Pachal Picard	Simon Fraser UBC Acadia Victoria Victoria	Toronto Victoria TRIUMF Victoria Montreal

# IPP Summer Students

Year	Name	Undergrad	Supervision
2011	Buck Burke Collins-Fekete McDonald Portillo	Carleton Victoria Laval MacMaser Alberta	Carleton UBC Carleton Simon Fraser Alberta
2012	Abdel-Aziz Bluteau Boone Friedl Killick	Toronto Acadia UBC Carleton Carleton	Toronto TRIUMF UBC Carleton Carleton
2013	Abidi Hedrich Layden Rettie Waslaski	Toronto Thompson Rivers Waterloo Ottawa UBC	Carleton/UofT SFU McGill TRIUMF Toronto
2014	Noordeh Quenneville Strickland	York SFU Memorial	York SFU Victoria



# IPP Summer Students

Year	Name	Undergrad	Supervision
2015	Dicaire Grant Morningstar Ojeda	Ottawa UBC McMaster McGill	Carleton TRIUMF Toronto McGill
2016	Abernathy Fascione Krupa Tomalty Trischuk	Queens Queens UBC/Okanagan McGill Toronto	St. Mary's Queens TRIUMF Toronto Carleton
2017	Barron Kudzman-Blais Richardson Wandler Egan	Alberta Toronto Laurentian Alberta McGill	Alberta UBC SNOLab Alberta UBC
2018	Lia Formenti Luke Polson Joshua Sandor Jon Corbett Gareth Smith	Guelph Victoria McGill Queen's Carleton	ATLAS at McGill Belle II at Victoria Theory at McGill SuperCDMS at Queen's ATLAS at Carleton