

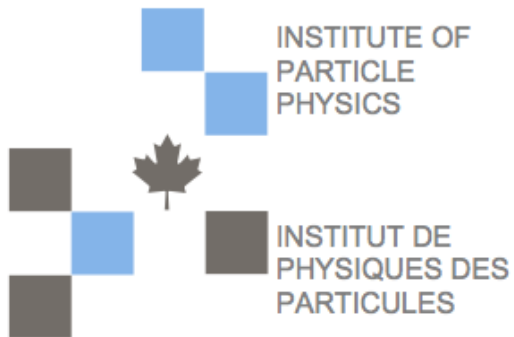
# IPP Director's Report 2015 Annual General Meeting of Individual Members Part 2

J. Michael Roney  
14-15 June 2015  
Edmonton, Alberta

# IPP Council

## 2014-2015 IPP Council

- Douglas Gingrich (2016) - Alberta
- Thomas Gregoire (2017) - Carleton
- Christine Kraus (2017) - Laurentian
- Peter Krieger (2016) - Toronto
- Wolfgang Rau (2014) - Queen's
- Oliver Stelzer-Chilton (2015) - TRIUMF
- Hirohisa Tanaka (2015) - IPP/UBC
- J. Michael Roney [Chair] (2018) - Victoria



# New Individual Members

New Member	Institution	
Jonathan Bagger	TIRUMF	Theorist
Gilles Gerbier	Queen's	Experimentalist
Claudio Kopper	Alberta	Experimentalist
Philip Schuster	Perimeter	Theorist
Natalia Toro	Perimeter	Theorist

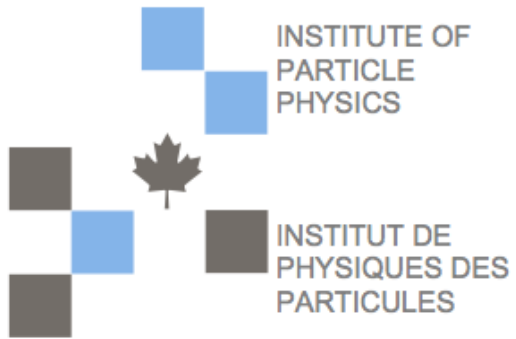
## Welcome to IPP!

# Change in Members

New Member	Institution	
Jonathan Bagger	TIRUMF	Theorist
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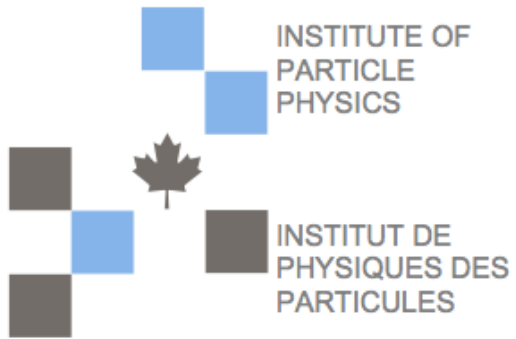
## Retired, resigned or otherwise departed members:

Carleton – Cliff Hargrove  
 McGill – Marc Grisaru  
 McGill – Guy Moore  
 McGill – Doug Stairs  
 McGill – Johannes Walcher  
 Saskatchewan – Y. M. Shin  
 Victoria – Alan Astbury



**Alan Astbury, Victoria, former IPP Director  
former TRIUMF Director  
1934- July 2014**

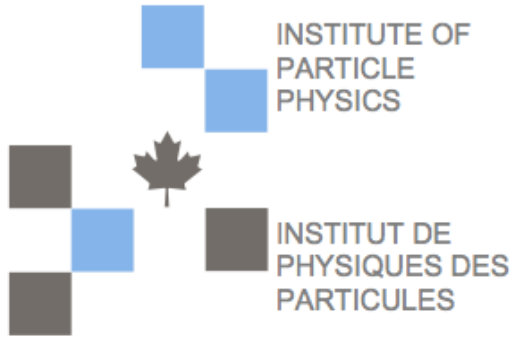




**Cliff Hargrove, Carleton, former NRC HEP Head  
1928- Nov 2014**

# IPP Projects

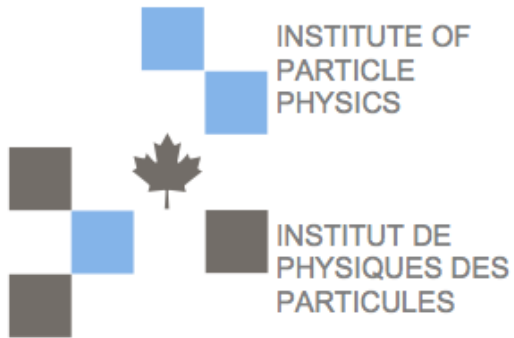
EXPERIMENT	Start data-taking	End data-taking	FTE IPP Research Scientists (FTE)	Investigators (FTE)
ATLAS	2009(1996)	2025+	4(3)	39(32)
BaBar	2000 (1998)	2008	2(0.1)	10(4)
PIENU	2009	2013	0	4(2)
EXO-WIPP	2008(2007)	2014+	0	9(~5)
PICO	2004(2006)	2014+	0	9(5)
T2K	2009(2004)	2020+	1(0.8)	17(10)
Veritas	2007(2004)	2015+	0	2(2)
DEAP-3600	2014(2008)	2017+	0	13(5)
SNO+	2013(2008)	2017+	1(1)	15(10)
SuperCDMS	2011(2013)	2014+	1(0.2)	4(2.1)
Belle-II	2016(2013)	2023+	3(1.6)	10(5)
IceCube	Project: 2014	2025+	0	6(~3.5)
NA62	Project: 2015		0	2(~2)



# IPP Research Scientists

Research Scientist	Project: w/data	Future Project	Host Institution
Corriveau(1990)	ATLAS	ILC	McGill
Hearty(1994)	BaBar	Belle-II	UBC
McPherson(1997)	ATLAS		Victoria
Robertson (2003)	BaBar/ATLAS	Belle-II	McGill
Sobie (1987)	ATLAS/HEPNET	Belle-II	Victoria
Tanaka (2007)	T2K	SuperCDMS	UBC → Toronto
Teuscher (2005)	ATLAS		Toronto
Wright (2012)	SNO+		Queen's





# IPP Research Scientists

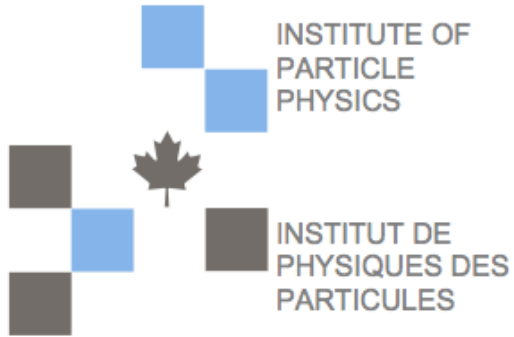
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Wright (2012)	SNO+		Queen's

Two promotion reviews took place this year; ad hoc Review Committees report to Council following a procedure analogous to a university promotion process.

On Council's recommendations, approved by the Board of Trustees:

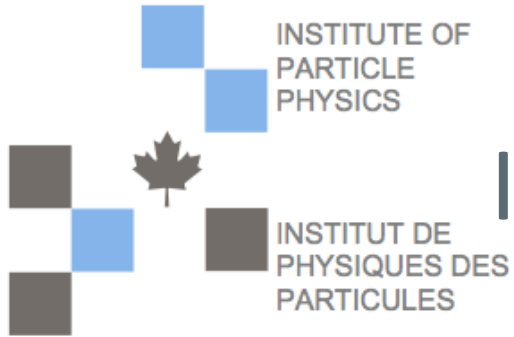
Alex Wright promoted to IPP Continuing Research Scientist

Hiro Tanaka promoted to IPP Principal Research Scientist



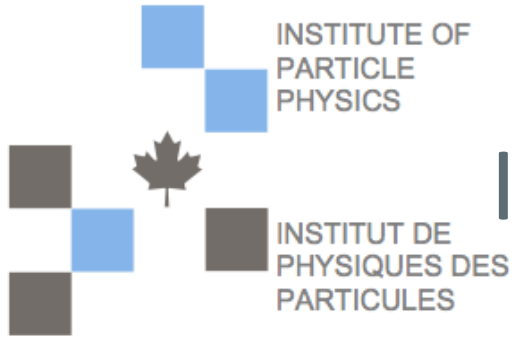
# IPP Theory PDF Programme Ramp-down

Year	Name	Sponsor	Currently
2006	Frey Reuter	McGill Carleton	Winnipeg (faculty) Freiburg (faculty)
2008	Larjo Underwood	UBC McGill	Brown (research associate) Pacific Lutheran (faculty)
2009	Levi Wang	UBC McGill	private sector (data mining) Kavli-IPMU (RA)
2010	Burrington Scott	Toronto McGill	Troy University (faculty) Banting Postdoc (McGill)
2011	Kurkela Taoso	McGill UBC	
2012	Ghiglieri Shuve	McGill McMaster/PI	in-progress in-progress
2013	Morrison Bhattacharya	McGill Montreal	started 09/13 Started09/13



# 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 identifies excellent students from across Canada in extremely competitive environment
- In 2015 four students supported: from BC, 2xOntario, Quebec. Down from 5 in 2013 due to funding cuts, up from 3 of last year thanks to McGill Provost contributing
- Particular encouragement to non-CERN experiments to take students in first two months – projects 3 x ATLAS, 1x ALPHA



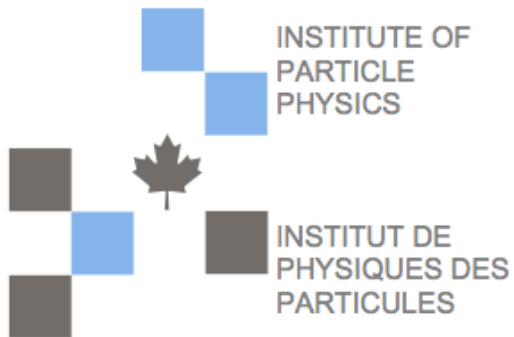
# IPP Summer Student Fellowships

This year the McGill Provost has provided \$20k in funding to this programme to support students from McGill or being supervised by a McGill faculty. Expected funds to last a few years.

**MANY THANKS to Francois Corriveau for seeing this initiative through!!**

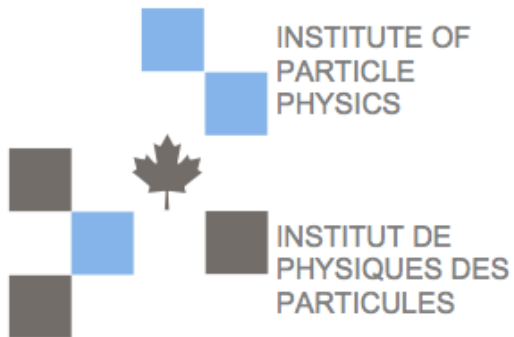
Alberta has agreed to doing the same, funds will be available next year.

Other institutions are in the works



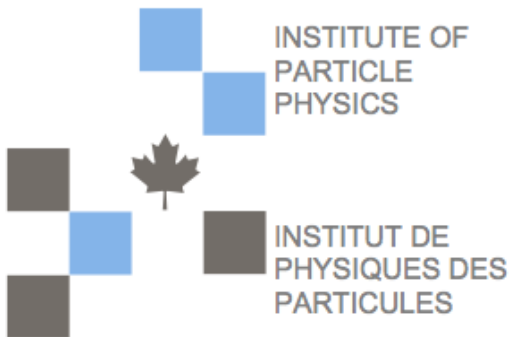
# IPP Summer Students

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
2011	Buck Burke Collins-Fekete McDonald Portillo	Carleton Victoria Laval MacMaser Alberta	Carleton UBC Carleton Simon Fraser Alberta



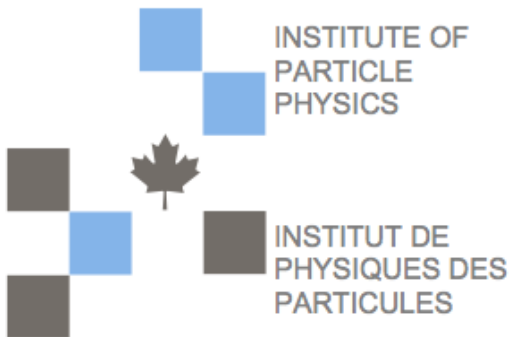
# IPP Summer Students

Year	Name	Undergrad	Supervision
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
2015	Dicaire Grant Morningstar Ojeda	Ottawa UBC McMaster McGill	Carleton TRIUMF Toronto McGill



# Activities of Council

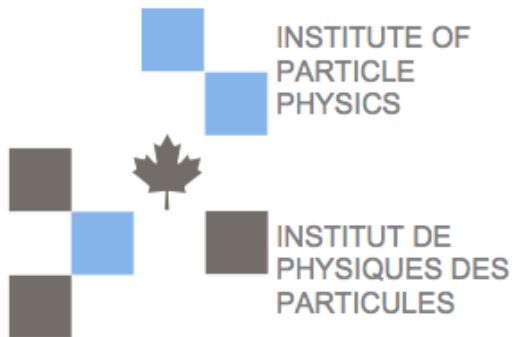
- Meeting roughly monthly this year – three in person
  - 16 June 2014 – old and new Council in person at CAP congress in Sudbury
  - 30 July 2014
  - 16&18 Oct 2014
  - 20 Nov 2014 – in person; U of Toronto
  - 10 Jan 2015
  - 23 Jan 2015
  - 20 Feb 2015 – in person at TRIUMF
  - 26 March 2015
  - 30 April 2015
  - 25&27 May 2015
  - Next meeting Tuesday 15 June 2015 – in person at CAP Congress in Edmonton



# Activities of Council

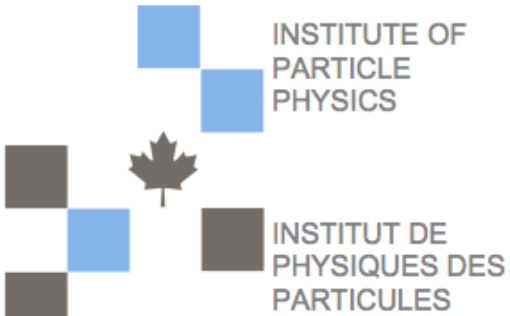
- Review IPP Projects
- Consider new applications for IPP Project status: (IceCube, NA62)
- Prepare for Large Project Day
- Support IPP Summer Student Program for 2014
  - January meetings include selection
- Provide some limited support for Conferences: use as a means of leveraging other funds
  - TRISEP 2014 (host: SNOLAB)
  - Alan Astbury Symposium (host: Victoria)
  - Testing Gravity 2015 – primarily theory (host: SFU)
  - Symmetries in Subatomic Physics 2015 (host: Manitoba, TRIUMF)
- Support for Science Media Centre
- New Individual Members
- Two Research Scientist Promotion cases
- Preparing for Long Range Planning process
- Preparing for Renewal of IPP MRS
- Data Preservation in HEP collaboration agreement
- Compute Canada White Paper: reviewed report from IPP/CINP Computing Task Force (Garnsworthy, Huber, Jillings, Lewis, Sobie (Chair), Tafirout, Tanaka)
- Prepare with CINP the Context and Environment of SAP Research in Canadian Universities document





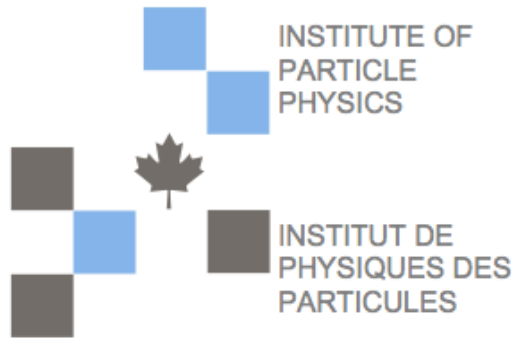
# Data Preservation in HEP

- DPHEP began as an ICFA Panel (with an international advisory committee, collaboration board and technical group). IPP has signed-on as a member of this information-sharing collaboration. Randy Sobie is the IPP representative.
- CERN has committed significant resources to this area (a few FTEs) and there are others from the LEP, HERA and Tevatron communities.
- Effort is split between data preservation of the older experiments and open access of the LHC experiments.
- The underground projects were discussed but the focus is the collider experiments at the moment).
- There seems to be a push by the international funding agencies to make the data “open” (either for other researchers or the public). The “public” access is primarily for educational purposes.
- IPP uses this forum to ensure Canadian particle physicists are in the information loop in this important area.



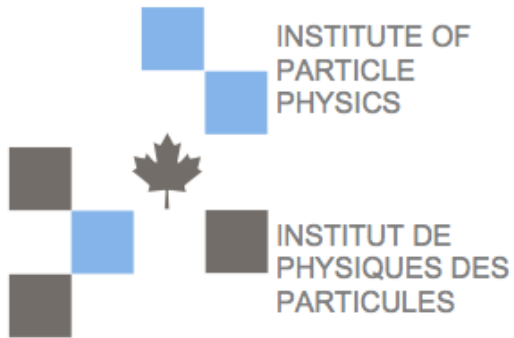
# Activities of Director

- Move of IPP MRS Grant – negotiations completed with University of Victoria
- Annual review of Research Scientist activities
- NSERC SAPES pre-meeting: research environment context
- Advocating efforts in Ottawa - meeting with NSERC (VP Charest), CFI (Programs Director, Levesque) , Industry Canada (ADM Hanson)
- Participate with NSERC and CINP as observer at TRIUMF ACOT meetings in autumn and spring
- ICFA Meeting (Jefferson Lab) Feb 2010
- Advocacy with Japanese Government for funding support at JPARC, also KEK. Working closely with Canadian embassy science liaison in Tokyo
- Continuing meetings with university administrators (Chairs, Deans, VPR) in institutions with Research Scientist:
  - Toronto
  - Queens
  - Victoria
  - UBC



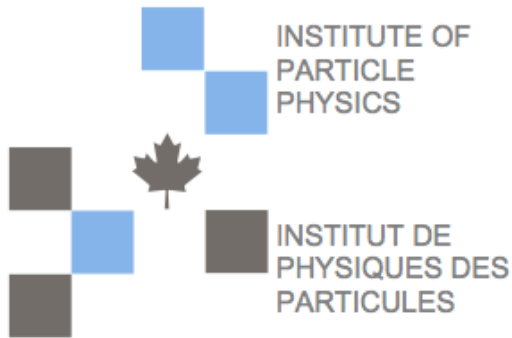
# Focus of coming year

- Long Range Plan – community engagement
- IPP MRS Grant submission
- Maintain the Summer Student programme:  
grow support from universities
- Continue limited support for conferences:  
leverages support from universities



# IPP Process for 2016 Long Range Plan

- In addition to written briefs from teams and individuals presenting, IPP is also requesting for additional briefs from:
  - Formal theory community
  - Accelerator physics community on projects related to particle physics
- Survey community for data on HQP training record in the past 10 years and compelling success stories of HQP after their training period, both in and outside the field
- Consult community to develop broad priorities regarding resource allocation for particle physics in Canada
- Briefs, and other feedback, to be submitted to IPP Council by July 10
- IPP Council to compile briefs and produce working draft of IPP document by July 31, then circulate within Council: goal is to ensure it addresses all points in the request from the LRPC and accurately captures the input from the community
- Council to meet mid-August to finalize document – goal to circulate to the community by the end of August and solicit feedback from the community
- Plan for a ‘virtual’ IPP Town Hall meeting in mid-September to facilitate final community discussion and input to the document
- Finalize and submit on time scale consistent with deadlines agreed to with LRPC: draft being finalized Oct. 1, final draft Oct 15.



# Other Considerations for the IPP Community

- Consider how the SAP MRS program is organized overall. Ensure it is fully synergistic with TRIUMF technical support
- Consider how our community can support accelerator physics R&D, crucial to the future of our field
- Consider that SNOLAB is developing its Strategic Plan from 2017-2022 (with instruction from CFI to have this in place by Sept 2016): ensure this meshes well with LRP