

# Annual Meeting for PPD

**Anadi Canepa**

2014 CAP Congress  
Subdury Ontario (Laurentian University)

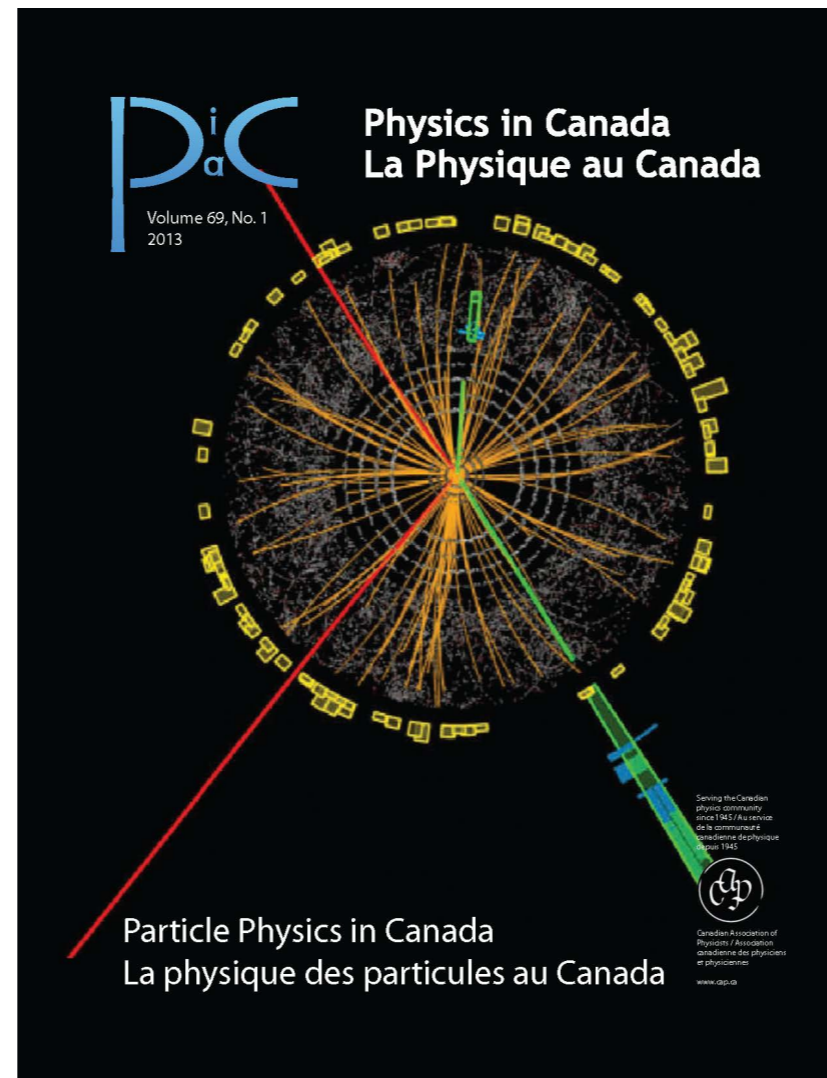
June 19, 2014



# Physics in Canada

Volume: 69

Issue: 1, Jan-Mar 2013



The current issue describes some of the basics of particle physics and the general state of the field [...]. As is described in the various articles in this issue, we live in exciting times in the world of particle physics. Just recently we have witnessed the discovery of the long-sought Higgs particle, possible hints of dark matter WIMPs, and first measurements of the third neutrino mixing angle, to name but a few highlights [...]

# PPD Executive

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Treasurer, David Bailey (University of Toronto)

Web Designer, Francois Corriveau (McGill)

Past Chair, Veronica Sanz (York, now University of Sussex)

Current Chair, AC (TRIUMF)

Incoming Chair, Jean-Francois Arguin (Universite de Montreal)

# Summary of the 2013 PPD Meeting

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1. Approved creation of the PPD Doctoral thesis award
2. Suggested to:
  1. create a 'Best PPD presentation' award at CUPC ✓
  2. coordinate nomination of plenary speakers, and Herzberg speaker ✓
  3. improve communication amongst PPD members ✓
  4. have introductory talks at Congress ✓
  5. strengthen the cooperation with DTP and DNP at Congress ✓
  6. create an early career award
3. Approved using \$250 of PPD funds to support the WNPPC best student talks prizes
4. Jean-Francois Arguin was elected to become the new PPD Chair Elect

# PPD Thesis Award

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1. Proposal designed in concert with DNP and DTP division
  1. To guarantee uniformity across divisions
2. Award co-sponsored by TRIUMF (Thank you)
  3. Cash award of 500\$ from the PPD
  4. Invitation to give a 30min invited talk at the upcoming CAP Congress (sponsored by TRIUMF up to 1000\$)
  5. Invitation to give a seminar at TRIUMF (sponsored by TRIUMF)
  6. Publication of a two-page summary of the thesis work on an issue of Physics in Canada.
7. Proposal distributed to all PPD faculty members
8. Large number of faculty members volunteered to be on the review panel
  1. Thank you very much for the support (if interested, please contact Jean-Francois)
  2. The 2014 competition will be announced soon after today's meeting

# PPD Awards at Conferences

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*CAP strongly supports division initiatives that both help/reward students and increase the visibility of the organization/division.*

1. One prize for **best PPD presentation at CUPC** approved last year
  1. Discussed with CUPC executive and finalized
  2. First prize in 2014 (Queen's University, October 24th-26th)
  3. Award value to be discussed later (budget slide)
2. Prize at the 6th Symposium for Symmetries in Subatomic Physics **SSP 2015**
  3. First time in Canada
  4. International workshop
  5. Award to be discussed later (budget slide)

# Herzberg and Plenary Speakers

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## 1. Consulted division via email

1. Received a number of nominations for plenary and Herzberg speakers

## 2. Nominations presented at the Fall CAP Council Meeting

**1. Joint PPD-DTP nomination for John Ellis as Herzberg Public Lecturer was selected by Executive**

2. Joint PPD-DTP nomination for Nigel Smith as plenary speaker was selected



# Communication among PPD Members

1. PPD webpage being updated (Home page, Student prizes)
  1. by Francois Corriveau
2. Created a Linked-in account for community building
  1. by Jean-Francois Arguin
  2. aim at information sharing & community building

**Particle Physics Division** PPD

[back to list of divisions](#)

**MENU**

- PPD Home
- PPD Executives
- PPD Congresses
- PPD Student Prizes
- Old PPD Home & Links

**NEWS**

- SAP Long Range Plan 2011

**EVENTS**

- IPP General Meeting 2014
- IPP General Meeting 2013
- IPP General Meeting 2012

**RECENT NEWS FROM CAP**

**About Us**

The Division of Particle Physics has a large membership of particle physicists across Canada. PPD activities include an annual meeting and programs at the CAP Congress. The PPD also offers annual student awards for the best presentations and poster at the Congress and for the best thesis in experimental or theoretical particle physics.

We invite students and postdocs to become members of the PPD. Being part of the community will expose you to the broad research program carried out in Canada and will provide you with opportunities for career advancement.

The PPD membership partly overlap with that of the Institute of Particle Physics of Canada (IPP), an independent body promoting Subatomic Physics (SAP) in Canada.

**Mission Statement**

Our research focuses on understanding the fundamental particles of the universe and their interactions. The large open questions we are trying to answer center around the origin of mass, the nature of dark matter, what the neutrinos are telling us and the relations between our field and astrophysics or cosmology.

The PPD is committed to support particle physics research and education in particle physics in Canada. It represents a beacon for the community at any time of the year and offers a platform during the yearly CAP congress. PPD also offers networking opportunities to its members and facilitates the dialog and collaboration across sub-disciplines.

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**Particle Physics Division, Canadian Association for Physicists (CAP/ACP)** 1 member [Join](#) [i](#) [➔](#)

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**Members of this Group**

  
**Jean-François Arguin**  
Assistant Professor at the Université de Montréal  
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Start by commenting in a discussion. Group participants get 4x the number of profile views.

**i Let the world know what you think.**  
Why not become a member of this open group and start your own discussions?



# Congress 2014, Organization (I)

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1. Established a very **close collaboration with the DTP and DNP divisions** to organize a broader, more pedagogical, more inter-disciplinary program
2. **Overview talks on experimental and theoretical state of the art in each main area**
  1. *Speakers were invited to present the status of the field*
3. **20 sessions** (all joint with DTP/DNP)
  1. Energy Frontier (6)
  2. Neutrinos (3)
  3. Cosmic Frontier (6)
  4. Testing Fundamental Symmetries (3)
  5. Experimental Advances and Accelerators (1)
  6. Precision Frontier (1)

# Congress 2014, Organization (II)

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1. **Two special sessions as “Erich Vogt Memorial”** (Thu afternoon)
  1. “Remembering a Canadian Giant, Erich W. Vogt”, J-M. Poutissou
  2. “A Champion for Physics”, M. Craddock
  3. “Putting TRIUMF on the World Map”, E. Blackmore
  4. “Memories and Anecdotes of a remarkable Canadian Physicist”, S. Page
  5. “An Inspirational Physics Professor”, A. Poon
2. **19 experimental invited talks** (and 7 theory invited talks)
3. **and 6 additional invited talks at the E. W. Vogt memorial**
4. **54 contributed talks; 30/54 in competition**
5. **11 posters; 7/11 in competition**

# Congress at a glance

**Mon**

Energy Frontier	Fundamental Symmetries	
Long Baseline Neutrino	Precision Frontier	Fundamental Symmetries

Energy Frontier	Cosmic Frontier	Accelerator
Energy Frontier	Cosmic Frontier	<b>Wed</b>

**Tue**

Energy Frontier	Fundamental Symmetries
Energy Frontier	Neutrino-less Double Beta Decay
Energy Frontier	Neutrino-less Double Beta Decay

Cosmic Frontier	Cosmic Frontier	<b>Thu</b>
Vogt Memorial		

Cosmic Frontier	Cosmic Frontier	<b>Fri</b>
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# Thank you!

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## 1. Speakers:

1. Lots of excellent and interesting talks
2. Several highlights presented during this congress

## 2. Session Chairs:

1. Svetlana Barkanova (Acadia University)
2. Florian Bernlochner (University of Victoria)
3. Matthias Danninger (University of British Columbia)
4. Matt Dobbs (McGill University)
5. Wojtek Fedorko (University of British Columbia)
6. Zoltan Gecse (University of British Columbia)
7. Zisis Papandreou (University of Regina)
8. Steven Robertson (McGill University)
9. Matt Rudolph (University of Toronto)
10. Doug Schouten (TRIUMF)
11. Oliver Stelzer-Chilton (TRIUMF)
12. Viktor Zacek (Université de Montréal)

# Thank you!

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## 1. PPD Judges:

1. Jean-Francois Arguin (Université de Montréal) – chair
2. Scott Oser (University of British Columbia)
3. Wolfgang Rau (Queen's University)
4. Oliver Stelzer-Chilton (TRIUMF)

## 2. CAP:

1. Danielle Legault (Program Manager)
2. Francine Ford (Executive Director)

# 2013-2014 Finance

- CAP Treasurer finalizing budget of all divisions, up to date version will be available soon
- As of June 16 2014, 280 members
- Expected (additional) expenses in 2013-14: 223\$ to support invited speakers and 250\$ for WNPPC

<b>Balance as at April 30, 2013</b>		<b>\$ 8,998.78</b>
2013 Memberships: May 1 - December 31		
	Fee Structure:	46 @ \$ 10.00 \$ 460.00
5-year renewals - May 1 - December 31	Fee Structure:	@ \$ 10.00 \$ -
Less Division Expenses:		
1st PPD Oral M. Davies	\$	(200.00)
2nd PPD Oral A.P. Kolacek	\$	(100.00)
share CAP-NSERC LC Meeting	\$	(26.32)
contribution to PiC Vol. 69 No. 1	\$	(1,000.00)
Other Revenue:		
Cong. Sponsorship Calcul QC	\$	500.00
	\$	(826.32)
<b>Balance as at December 31, 2013</b>		<b>\$ 8,632.46</b>
2014 Renewals received prior to Dec. 31/13	\$	320.00
5-year Renewals - 2014 portion	\$	240.00
<b>Balance as at January 1, 2014</b>		<b>\$ 9,192.46</b>

# Expected expenses in 2014-15

Expense	Value (\$)	Comment
1 <sup>st</sup> winner PPD best presentation	200	
2 <sup>nd</sup> winner PPD best presentation	100	
winner PPD best poster	200	
1 <sup>st</sup> winner PPD best presentation	250/2	Shared with DNP
2 <sup>nd</sup> winner PPD best presentation	150/2	Shared with DNP
3 <sup>rd</sup> winner PPD best presentation	100/2	Shared with DNP
PPD Thesis Award	500	
CUPC 2014 best PPD presentation	200	For approval
SSP2015 best PPD presentation	200	For approval
Administration	50	
Total	1700	



# Possible Improvements to the Division Activities

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- Approve by-laws
  - propose to have call for nominations for vice-chair (who then becomes chair)
    - secret vote during Business Meeting (open to all PPD members)
    - rotation among fields such as collider physics, neutrino physics, cosmology, theory?
    - rotation east - west ?
- Executive
  - has the duty and right to make disbursements from PPD funds in a manner that is consistent with the general policies of the Division up to a maximum of 500\$. For larger amounts executive will request for approval via email and/or during the Business Meeting

# Possible Improvements to the Division Activities

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- Structure of Congress
  - more/less interaction with other divisions?
  - morning sessions with invited talks only and a large number of parallel sessions in the afternoon?
  - parallel sessions at the beginning of Congress and invited talks at the end of Congress?
- Seek sponsorship for Congress and/or Awards?
- Membership
  - ideas to improve visibility?
  - early career award?
- Communication within the division
  - scientific results? open job positions ? summer student opportunities?
  - database of members with separate distributions list for Faculty Only and All

# New Chair Elect

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Christine Kraus has agreed to become PPD chair for 2015

I would like someone to move the motion that we elect Christine Kraus as PPD Chair-Elect

# Additional Material

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# SSP2015 (Victoria BC, June 2015)

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Conference that spans theory and experiment in atomic, nuclear, and particle physics with the following program:

1. Neutrino Properties
2. Time Reversal Invariance Breaking and CP Violation (EDM Searches)
3. Symmetries in Atoms and Nuclei
4. Lorentz and CPT Invariance
5. Symmetries in QCD
6. Electroweak Tests of the Standard Model (High Energy Frontier and Low Energy Precision/Intensity Frontier)
7. Dark Matter and Dark Energy
8. Beyond the Standard Model Phenomenology
9. Baryon and Lepton Number Violation
10. Rare Decays and Fundamental Symmetries
11. Heavy Flavor and the CKM Matrix
12. Cosmology, String Theory, and Fundamental Symmetries

# PhD Thesis Award (I)

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## **PPD Thesis Award**

The Particle Physics Division (PPD) will award one PPD thesis award to a student who has received a Ph.D. degree in Experimental or Phenomenological Particle Physics from a Canadian University in the current calendar year.

The award consists of:

- Cash award of 500\$ from the PPD.

- Invitation to give a 30min invited talk at the upcoming CAP Congress (sponsored by TRIUMF for a maximum of 1000\$).

- Invitation to give a seminar at TRIUMF (sponsored by TRIUMF).

- Publication of a two-page summary of the thesis work on an issue of Physics in Canada.

A one-page summary describing the competition results shall be posted by the thesis committee chair on the PPD website.

## **DEADLINES**

To be considered for the award, the following documentation has to be submitted to the chair of the PPD Thesis Award Committee:

- A copy of the thesis in electronic format.

- A letter of nomination by the thesis supervisor. The nomination letter should describe in detail the contributions of the student to the research work.

- A recommendation letter by the external reviewer on the applicant's thesis committee.

- A letter from the Department Head (or University Dean) indicating that the thesis has been formally accepted by the University.

The deadline for submission is December 31st.

The recipient will be notified on March 31st and the announcement to the PPD will be made shortly after.

# PhD Thesis Award (II)

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## **REQUIREMENTS**

Both the supervisor and the nominee must be members of CAP and PPD.

The PPD competition will run in parallel to the DNP and DTP competitions. Simultaneous submissions to PPD, DTP and DNP competitions are not allowed. Theses in particle physics phenomenology can be submitted to either the DTP or PPD prizes. Theses in formal theory should be submitted to the DTP prize.

If less than five submissions are received, no competition is to be held in that year and all submissions will be considered in the following calendar year.

No draw is allowed.

## **PPD THESIS AWARD COMMITTEE**

The PPD Thesis Award Committee shall be chaired by the PPD Vice-Chair. The membership of the Committee shall also include two additional members appointed by the Committee Chair according to areas/languages of the theses submitted. The PPD chair and vice-chair will nominate 3 PhD theses for review based on the reference letters from the supervisor and the external examiner.



**PARTICLE PHYSICS DIVISION  
FINANCIAL STATEMENT  
2013 January 1 to December 31**

<b>Balance as at December 31, 2012</b>				<b>\$ 7,888.78</b>
2013 Renewals received prior to Dec. 31/12				
Fee Structure:	26	@	\$ 10.00	\$ 260.00
5-year Renewals received prior to Dec. 31/12				
Fee Structure: 14 @ 10.00	23	@	\$ 10.00	\$ 230.00
<b>Balance as at January 1, 2013</b>				<b>\$ 8,378.78</b>
2013 Memberships: January 1 - April 30				
Fee Structure:	59	@	\$ 10.00	\$ 590.00
5-year renewals - January 1 - April 30				
Fee Structure:	3	@	\$ 10.00	\$ 30.00
Less Division Expenses:				
nil				
				\$ -

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5-year renewals - January 1 - April 30				
Fee Structure:	3	@	\$ 10.00	\$ 30.00
Less Division Expenses:				
nil				
				\$ -