



Association canadienne des médecins et physiciennes
Canadian Association of Physicians

PPD Business Meeting

June 14, 2012



PPD Executive

- Treasurer: David Bailey (U Toronto)
- Web Designer: Francois Corriveau (McGill)
- Past Chair: Kevin Graham (Carleton U)
- Almost Past Chair: Bernd Stelzer (SFU)
- Current Chair: Veronica Sanz (York U)



Summary of 2011 Meeting

- Discussed possible ways to feature, summarize and highlight particle physics research ongoing in Canada
- PPD Doctoral thesis award
- Division Finances
- Noted that we have a long-term approval for PPD oral competition (2 prizes) and Divisional Poster prize (1 prize)
- Approved using \$250 of PPD funds to support the WNPPC best student talks prizes (DNP had been asked to contribute a matching amount)
- Veronica Sanz was elected to become the new PPD Chair Elect



Calgary Congress

- 12 sessions
- 11 invited talks
- 36 contributed talks
- 16 talks in oral student competition (more than other divisions)
- 7 posters (5 in student competition)
- Unfortunately no PPD plenary talk... (unless LHC would have discovered the Higgs) we will argue strongly for next year (but we had David Hanna on the history of cosmic rays)



PPD Sessions (12)

- Energy Frontier I (PPD) / Frontière d'énergie I (PPD), Monday, June 11th, 15:45-17:30
- Energy Frontier II (PPD) / Frontière d'énergie II (PPD), Tuesday, June 12th, 08:45-10:15
- Neutrino I (PPD) / Neutrino I (PPD), Tuesday, June 12th, 13:45-15:15
- Dark Matter I (PPD) / Matière sombre I (PPD), Tuesday, June 12th, 15:45-17:15
- Neutrino II (PPD) / Neutrino II (PPD), Wednesday, June 13th, 08:45-10:15
- Energy Frontier III (PPD) / Frontière d'énergie III (PPD), Wednesday, June 13th, 10:45-12:15
- Dark Matter II (PPD) / Matière sombre II (PPD), Thursday, June 14th, 10:45-12:15
- Double Beta Decay (joint with DNP), Thursday, June 14th, 10:45-12:15
- Heavy Flavor Physics and Precision Frontier, Thursday, June 14th, 13:45-15:15
- SM Tests at High and Low energies (**joint with DNP**), Thursday, June 14th, 15:45-17:15
- Advances in Particle Theory (**joint with DTP**), Friday, June 15th, 8:30-10:15
- Experimental Advances and Accelerators (**joint with DNP**), Friday, June 15th, 8:45-10:00



Thank You!!

- **Speakers:**

- Lots of excellent and interesting talks
- Several highlights presented during this congress

- **Session Chairs:**

- Anadi Canepa (TRIUMF)
- Oliver Stelzer-Chilton (TRIUMF)
- Christine Kraus (Laurentian U)
- Carsten Krauss (U Alberta)
- Christopher Hearty (IPP/UBC)
- Marie-Cecile Piro (U Montreal)
- Bob Kowaleski (U Victoria)
- Andreas Warburton (McGill)
- Dan Melconian (Texas A&M)
- Rainer Dick (U Saskatchewan)
- Shelley Page (U Manitoba)
- Corina Andreiou (SFU)



Thank You!!

- Judges (PPD best student presentation / best student poster):
 - Pat Kalyniak (Carleton U)
 - Anadi Canepa (TRIUMF)
 - Carsten Krauss (U Alberta)

- CAP:
 - Chantal Martucci (Program Manager)
 - Francine Ford (Executive Director)



Congress Prizes

- PPD is funding 1st (\$200) and 2nd (\$100) prizes for the winners of the PPD best student presentation
- We also pay banquet ticket for any PPD winners who will attend (and has not bought banquet tickets already)
- Two years ago, we added a poster competition with 1st prize (\$200)

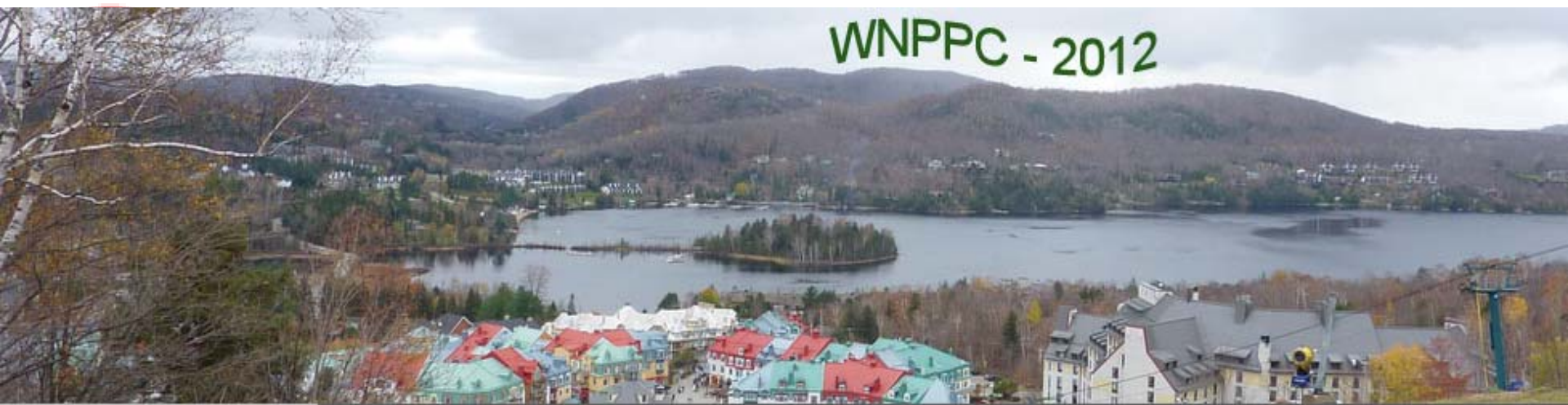


WNPPC Student Prizes

- At last year's business meeting we approved ongoing support (\$250) for student presentation prizes at WNPPC 2012 (shared with DNP)

Winners:

- 1st place (\$250 prize): Marie-Cecile Piro, University of Montreal
"Recent results from the PICASSO dark matter search experiment"
- 2nd place (\$150 prize): Alex Laffoley, Guelph University
"High-Precision Half-life Measurement for the Superalloyed Beta+ Emitter 140"
- 3rd place (\$100 prize): Gang Li, McGill University
"Measurement of electron-neutrino angular correlation in ^8Li decay"



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The 49th WINTER NUCLEAR AND PARTICLE PHYSICS CONFERENCE
February 23-26, 2012
Centre des Conférences, Mont Tremblant, Québec

Inquiries should be addressed to:

Prof. Ken Ragan,
Department of Physics, McGill
Chair, local organizing committee, WNPPC 2012
email: ragan{AT}physics.mcgill.ca





2011/12 Finances

| | |
|--|------------------|
| Balance as of April 30, 2011 | \$6911.54 |
| 153 PPD member renewals at \$10 each | \$1530 |
| CAP 2011 Student comp. best oral | \$200.00 |
| CAP 2011 Student comp. 2 nd oral | \$100.00 |
| CAP 2011 Banquet ticket (2 nd oral) | \$50.00 |
| Share of liaison mtg. meal | \$19.61 |
| WNPPC 2012 student prize support | \$250.00 |
| Total expenses | \$619.61 |
| Balance as of March 31, 2012 | \$7821.93 |



PARTICLE PHYSICS DIVISION
FINANCIAL STATEMENT
2012 January 1 to March 31

| | |
|--|--------------------|
| Balance as at December 31, 2011 | \$ 7,111.93 |
| 2012 Renewals received prior to Dec. 31/11 | |
| Fee Structure: 28 @ 10.00 | \$ 280.00 |
| 5-year Renewals received prior to Dec. 31/11 | |
| Fee Structure: 14 @ 10.00 | \$ 140.00 |
| Balance as at January 1, 2012 | \$ 7,531.93 |
| 2012 Memberships: January 1 - March 31 | |
| Fee Structure: 53 @ 10.00 | \$ 530.00 |
| 5-year renewals - January 1 - March 31 | |
| Fee Structure: 1 @ 10.00 | \$ 10.00 |
| Less Division Expenses: | |
| WNPPC winner, 1st: M-C Piro | \$ 125.00 |
| WNPPC winner, 2nd: A. Laffoley | \$ 75.00 |
| WNPPC winner, 3rd: Gang Li | \$ 50.00 |
| | \$ 250.00 |
| Balance as at March 31, 2012 | \$ 7,821.93 |

267 total
members
(-6)



Congress Improvements(?)

- Organize talks by subject, not experiments (though allow for common introductory talk when beneficial)
- This year we have some joint sessions with DNP on:
 - *“SM tests at High and Low energies”* (featuring SM results from ATLAS, PIENU and J-PARC g-2)
 - *“Double Beta Decay”* (featuring talks from SNO+, TITAN)
- We could invite special guest speaker(s) for PPD session(s) (we have some money)
- Other suggestions?



PPD Improvements(?)

- Ways to increase visibility?
- Support prizes at other conferences?
- Utilize web pages more extensively?
- Increase PPD membership (if possible)
- Other suggestions?



PPD Webpage



Canadian Association of Physicists

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PPD

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RECENT NEWS FROM CAP

On May 23rd, CAP's 2012 Congress Banquet speaker, physicist Ted Hsu, MP, is holding a Facebook Town Hall with Canadian researchers on basic research funding
May 18, 2012

About Us

The membership of the Particle Physics Division overlaps in a large part, hence not completely, the membership of the Institute of Particle Physics of Canada (IPP). The PPD provides the framework and the venue for the annual meeting of all Canadian scientists interested in the field.

Mission Statement

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

Chair



Bernd Stelzer
Simon Fraser University
stelzer@sfu.ca

Executive

Vice-Chair

Thanks to Francois Corriveau
for updated English / French version



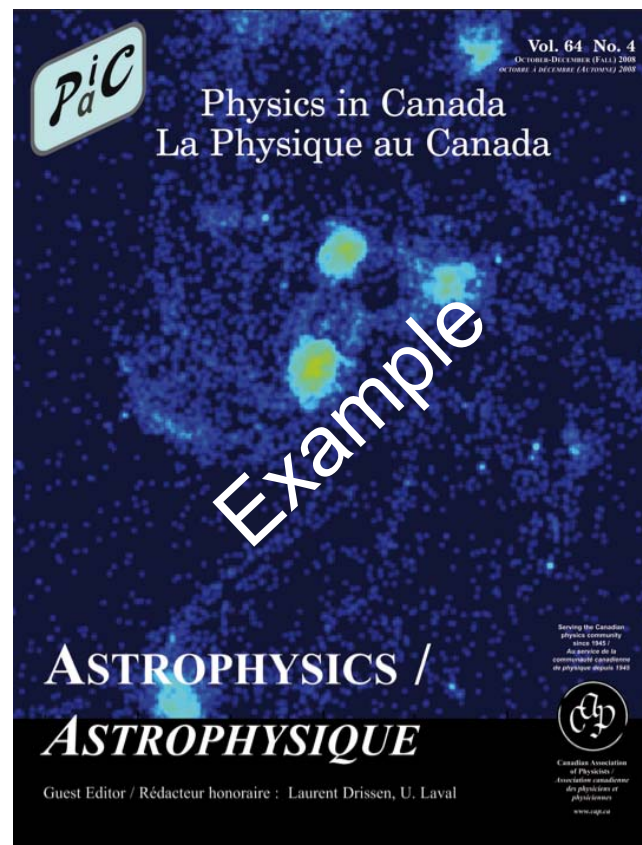
PPD - PhD Thesis Award

- Discussed last year, but no consensus was found
- Suggestion came up again this year (from PPD members)
- Suggest following model:
 - PPD chair(s) nominate **5** PhD theses / students based on reference letters from their *supervisor* and the *external examiner*
 - Need to assess three key selection criteria (need evaluation form?)
 - 1. Originality / impact of students contribution / student role**
 - 2. Relevance of research topic / results**
 - 3. Thesis presentation**



Physics in Canada (PiC)

- Themed issue for April 2013 (approved)
- Featuring exclusively the *breadth* of particle physics research in Canada
- A set of ~10 short articles (≤ 5 pages) on
 - Particle theory
 - Collider based particle physics
 - Non collider based particle physics
 - Particle physics history in Canada / timeline?
- Articles should be written at the level for *prospective graduate students*
- *Past, outgoing, present and incoming PPD chairs* will take on overall editor role
- Specific authors from PPD (interested? – let us know)
- Possibly ask for sponsorship from IPP/TRIUMF/SNOLAB for extended issue





DPF and APS Long Term Planning Exercise

Letter from Pierre Ramond (U Florida), Chair of Division of Particles and Fields

“...the Division of Particles and Fields of the American Physical Society is initiating a long-term planning exercise, in order to better define the US High Energy Program. In the enclosed document, you will see the charge to the community as well as the name of the main conveners who have volunteered their service.

*The purpose of my letter... is **to welcome the participation of Canadian High Energy physicists in this process.** We very much look forward for your members to **contact the conveners, share their thoughts, ideas, and volunteer their time.**”*

...

Its narrative will communicate the opportunities for discovery in high-energy physics to the broader scientific community and to the government.



DPF and APS Long Term Planning Exercise

The long-term planning exercise is anchored by two meetings:

- **A Community Planning Meeting (CPM2012)**, at Fermilab, Oct. 11-13, 2012,
- **A Community Summer Study (CSS2013)**, at Snowmass, June 2-22, 2013.

5 Areas:

- **Energy Frontier:** Raymond Brock (Michigan State U), Michael Peskin (SLAC)
- **Intensity Frontier:** JoAnne Hewett (SLAC), Harry Weerts (Argonne)
- **Cosmic Frontier:** Jonathan Feng (UC Irvine), Steve Ritz (UC Santa Cruz)
- **Instrumentation:** Marcel Demarteau (Argonne), Howard Nicholson (Mt. Holyoke)
- **Facilities:** William Barletta (MIT), Murdock Gilchriese (LBNL)

- **Education and Outreach:** Marge Bardeen (Fermilab) and Dan Cronin-Hennesy (UMn)
- **Special Advisor:** Chris Quigg (Fermilab)



DPF and APS Long Term Planning Exercise

- Special subgroups will be formed to address the physics in each of these five areas, and identify regions of common interest. Leadership of subgroups by younger physicists and by international colleagues should be considered
- At **CPM2012**, the groups will present the scientific issues to be emphasized, experiments to be discussed, and strategies for implementation both in national and global terms... During the winter and following spring, each subgroup will hold meetings to develop and refine its ideas.
- After **CPM2012**, subgroup conveners will formulate specific charges for their areas. These charges will clarify the physics questions to be discussed and the experiments to be given most attention
- **At CSS2013** By the end of this meeting, each pair of conveners will have prepared an executive summary for their area, and overlap areas if necessary... Each subgroup will produce a report answering its charge and summarizing the discussion of its area throughout the process
- *“We anticipate that this long-term planning process will trigger an independent process of review and prioritization solicited by the funding agencies.”*



New Chair Elect

- Anadi Canepa (TRIUMF) has agreed to become PPD chair for 2014
- I would like someone to move the motion that we elect Anadi as PPD Chair-Elect



Association canadienne des physiciens et physiciennes
Canadian Association of Physicists

In Memoriam



Michael J. Losty

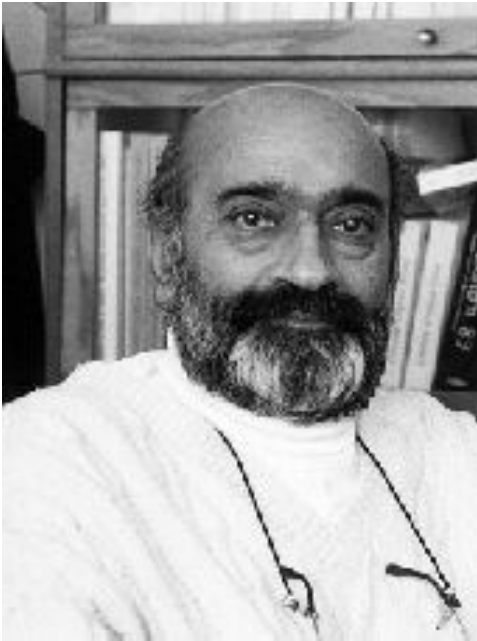
May 15, 1943 – June 01, 2012

TRIUMF Research Scientist (2001 - 2008)



Association canadienne des physiciens et physiciennes
Canadian Association of Physicists

In Memoriam



Pobat Patel

July 1933 – June 2012

Professor of Physics, McGill University (since 1968)



In Memoriam



Michael J. Losty

May 15, 1943 – June 01, 2012

Michael passed away suddenly and unexpectedly but peacefully at his home in Vancouver on Friday, June 1st. He is survived by his son Stephen, daughter-in-law Michele (nee Gagne) and two grandsons, Benjamin (6) and Liam (4), who both adored him as much as he did them, as well as his brother Jerry and nephew Barry and their families. Michael was married for 32 years to Linda (nee Wren), who now lives in England.

Michael was born in London, England and went on to earn a B.Sc. Physics and a Ph.D. Physics from Imperial College, London, and an M.Sc. Physics from the University of Pennsylvania.

Michael began a successful career in High Energy Physics and soon moved to Switzerland to work at CERN, the European Centre for Nuclear Research. He subsequently moved with his family to California (Berkeley), Illinois (Fermilab), Ottawa (the National Research Council and Carleton University) and ultimately to Vancouver (TRIUMF (UBC)).

Throughout his career, he continued to work with and visit CERN often, as part of Canada's significant and ongoing contribution to this leading international project. Michael retired in 2008, but like many of his "retired" colleagues, he kept an office and continued to go to work often. Most recently, he was excited about the possibilities for the new Atlas detector at the Large Hadron Collider at CERN, which is investigating a wide range of physics, including the search for the Higgs boson or "God particle".

Michael was passionate about his work. He was a voracious reader and keen follower of domestic and world affairs, politics, the arts and sports. His greatest joy and source of pride in recent years was his two young grandsons, who always looked forward to Grandad's visits to Toronto to see them.

Michael leaves behind a loving extended family and close group of friends, neighbours and colleagues at TRIUMF, CERN and across the Canadian and international High Energy Physics community. He will be greatly missed.