

IPP 2006 Annual General Meeting

- Council Election
- Director's Report
- GSC Report (Sinclair)
- Physics Prospects at SNO Lab (Hallin)



Brock
June 11, 2006

<http://www.ipp.ca/communications/agm06.pdf>

Formalities

- Adoption of the Agenda
- Approval of minutes of 2005 AGM
 - Posted at <http://www.ipp.ca/minutes/IPPAGMminutes2005.pdf>
- Matters arising

IPP Council Composition

- Composition of current Council

C. Burgess	2006
P. Krieger	2006
A. Konaka	2007
D. O'Neil	2007
R. McPherson	2008
A. Warburton	2008
W. Trischuk (Director)	2009

- Thanks to Cliff and Peter for three years' service
- Election of new council members has taken place electronically
 - Members who applied during the year were eligible to vote
 - Their membership was approved at this morning's board meeting

IPP Council Election Results

- Candidates were

A. Bellerive (Carleton) J. Cline (McGill) A. Hallin (Queen's) W. Taylor (York)	
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- Thanks to all for running
- 92 ballots (168 votes, 30% increase over last year)
- Votes were tallied by UofT HEP secretary

IPP Council Election Results

- Council vote tallies

A. Bellerive (Carleton)	56
J. Cline (McGill)	44
A. Hallin (Queen's)	32
W. Taylor (York)	36

- Thanks to all for running
- Welcome to council Alain and Jim!

Council Activities

- Had two face-to-face meetings:

Oct 20 (Toronto), Jan 6 (TRIUMF)

- Had two phone meetings in fall to finish the IPP LRP submission
- A third phone meeting (Apr 13) for general IPP business
- Main items for discussion were
 - Preparation of the IPP report to the LRP
 - Summary of this year's NSERC applications
 - IPP support for conferences
 - High school outreach programme

High School Poster

Elementary components of matter

10⁷ m EARTH

1 m OBJECT

10⁻⁶ m CRYSTAL

10⁻¹⁰ m ATOM

10⁻¹⁴ m ATOM NUCLEUS

10⁻¹⁵ m PROTON
NEUTRON

ANTI-MATTER

	1 st family	2 nd family	3 rd family
LEPTONS <small>These particles are insensitive to strong interaction.</small>	e <small>electron</small>	μ <small>muon</small>	τ <small>tau</small>
	ν _e <small>electron neutrino</small>	ν _μ <small>muon neutrino</small>	ν _τ <small>tau neutrino</small>
QUARKS <small>The nameless subatomic particles are all made of quark triplets or of quark antiquark pairs.</small>	u <small>up</small>	c <small>charm</small>	t <small>top</small>
	d <small>down</small>	s <small>strange</small>	b <small>bottom</small>

ANTI-MATTER

To each particle, corresponds an antiparticle with quasi identical properties. The electric charge of an antiparticle is opposite to the one of the corresponding particle.

Fundamental interactions

There are **PARTICLES ASSOCIATED** to each fundamental interaction, allowing its propagation.

Gravity
Universal attraction, planets, galaxies.
GRAVITON?

Weak interaction
Radioactive decays.
Z⁰, W⁺, W⁻

Electromagnetism
Electricity, magnetism, atom and crystal cohesion, chemistry.
PHOTON

Strong interaction
Proton and neutron cohesion.
GLUON

The 4 fundamental interactions are all needed for the Sun (and all the stars) to shine:

- Star formation caused by gravity.
- Nuclear fusion reactions caused by weak and strong interactions.
- Light production : electromagnetic interaction.

The 4 particles of the first family are all present in the Sun which sends an intense flux of photons and neutrinos to Earth.

<http://www.lpp.cal/poster>
<http://slp.ln2p3.in2p3.fr/fiche>

News from the Board of Trustees Meeting

- Membership of the Board of Trustees:
 - Trustees: Axen, Carnegie, Keeler, Orr, Sinclair, Stairs
 - Officers: Trischuk director, Bailey secretary-treasurer
- Discussed possible ammendments to by-laws to ensure Council is sufficiently representative of the IPP programme.
- Approved a search to maintain a complement of 8 Research Scientists

New Individual Members

D. Asner	Carleton	Expt. (CLEO/ATLAS)
I. Blokland	Alberta (Augustana)	Theory
K. DasGupta	McGill	Theory
M. Dobbs	McGill	Expt.
J. Gomis	Perimeter	Theory
L. Kurchaninov	TRIUMF	Expt.
H. Logan	Carleton	Theory
R. Ouyed	Calgary	Theory
F. Retiere	TRIUMF	Expt.
A. Ritz	Victoria	Theory
R. Teuscher	IPP/Toronto	Expt. (ATLAS)

- Brings our total membership to 166
- Up by 10 from last year

Status of the IPP

- The IPP grant is now in second of three years
- Grant supports
 - Eight Research Scientists:
 - * Corriveau, Hearty, Hemingway, McPherson, Martin, Robertson, Sobie and Teuscher
 - * These salaries represent 92% of our NSERC grant
 - Conferences (3 conferences for a total of \$14k)
 - Strings05, LLWI06, FPCP06
 - Printing of High School outreach poster (\$7k)
 - Travel for Council meetings + Administration
- Audit passed board of trustees and institutional reps this morning

Financial Overview

\$k	04-05	05-06	06-07
Balance Forward	180	166.5	182.5
NSERC Award	823	850	875
Total Available	1007	1020.5	1061.5
Salaries and Benefits	786	763	868
Theory PDFs	-	-	20
Travel	23	26.5	25
Conference Support	15.5	14	15
Outreach	-	7	7
Administration	12	23.5	13.5
Total Expenses	836.5	834	948.5
Balance	166.5	182.5	109

- 06-07 proposed for current year

Director's Activities

Canadian

- SNOLab EAC (Aug15-17)
- Big Science round-table (Oct3)
- TRIUMF ACOT (Nov4-5, May5-6)
- LRP Town Hall (Dec5)
- LRP mtgs (Dec6, Jan8-10, May1-2)
- NSERC LPD talk (Feb3)
- NSERC reviews
 - SNO-Science (Dec3-4)
 - T2K (Jan11-12)
 - SNO-ARC (May15)

International

- ILC/GDE mtg (Aug18-24)
- ICFA Seminar (Korea, Sep27-30)
- NRC President CERN (Oct26)
- European LRP (Paris, Jan30-Feb 1)
- US HEPAP (Mar3)
- North Am LC communications

IPP Family Photo – December 2005



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IPP/PI Theory Fellowship Programme

- IPP/PI fellowship programme was an attempt to improve IPP theorists competitiveness to attract the best PDFs
 - Provide two years of matching support for theory postdocs
 - Pilot programme jointly sponsored by IPP and PI
 - Selection committee (Burgess, Kalyniak, Pospelov, Trottier)
 - * 10 applications, first offers out before Christmas
 - * Inaugural recipients have now accepted
 - Andrew Frey at McGill
 - Jurgen Reuter at Carleton
- Request for continuing support not funded

The IPP Experimental Programme

Experiment	Timescale		Investigators	
	Start	End	IPP Scientists	Signatories (FTE)
ATLAS	2007 (1996)	2020?	2.5	38 (26)
BaBar	2000 (1998)	2008	2	9 (7)
CDF	1992	2009	0	6 (3)
Picasso	2000 (2005)	2010+	0	10 (6)
$\pi \rightarrow e$	2007 (2006)	2009	0	11 (3)
SNO	1998 (1990)	2007	1	34 (25)
T2K	2009 (2004)	2015+	1	19 (9)
Veritas	2006 (2004)	2010+	0	2 (2)
ZEUS	1989 (1984)	2007	1	4 (2)

- Is the IPP programme serving the community? (Yes, 83 FTEs)
- Are all projects currently viable?
- Links to the theory community (50 members of the IPP are theorists)

The Future of the IPP Programme

Experiment	Timeline		Investigators (fte)
	Start	End	
ATLAS	2007 (1996)	2020?	45 (35)
Linear Collider	2015 (2009)	2020+	30 (20)
Picasso	2000 (2005)	2010+	12 (9)
SNOLab	2009 (2007)	2020+	30 (20)
Super-B?	2015 (2012)	2020	8 (6)
T2K	2009 (2004)	2015+	12 (8)

- How to balance large vs. small
- Projects in Canada (SNOLab, TRIUMF)
- Or nearby? (SLAC, FNAL, BNL)
- IPP projects in a time of transition

Outlook

- The IPP community is under-going significant renewal
- Our science is clearly vital in physics departments across the country
- TRIUMF tier-1 centre critical for the near future
- NSERC Long Range Plan builds on IPP strengths
- Must now work to secure operating funding to capitalise on this growth