

La physique régite



la marche du monde

The
Canadian
Association
of Physicists



L'Association
canadienne des
physiciens et
physiciennes

English

Français

physics makes 

the world go round

<http://www.cap.ca>



Evolving Environment for Science in Canada

2005 February Federal Budget supports science :

- TRIUMF funding of \$222M over 5 years is announced; short of needs
- Additional funding of \$32M per year is announced for NSERC
- CIHR also receives new funding of \$32M p.a.
- SSHRC receives \$11M p.a.
- Additional \$15M p.a. for indirect costs program; now \$260M p.a.
- \$30M to Canadian Academies of Science, to be spent over 10 years on 'independent assessments of the state of scientific knowledge in key areas'
- \$110M to NRC over five years for technology-based clusters in Atlantic Canada





Evolving Environment for Science in Canada

Natural Sciences and Engineering Research Council (NSERC)

• Programs

- Primary operating funds for university-based research

- Average grants

- Returning applicants: CMP, \$33K;

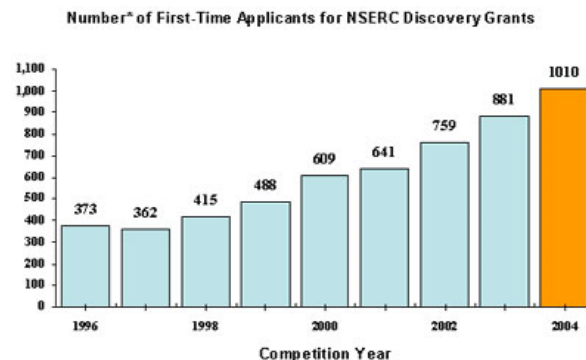
- Gen. Phys. \$38K

- First time applicants: CMP, \$35K;

- Gen. Phys. \$30K

- Pressure: over 1/3 of 2005 applicants first time (~36% for CMP)

- Current annual increase (\$32M) about half of what is needed to accommodate growth



First-time applicants
(NSERC web site)





Evolving Environment for Science in Canada

•Programs

- **CFI** (started 1997): support for up to 40% of project infrastructure
 - By 2010, expect \$10B in capital expenditure by CFI and matching partners. Review of program underway.
- **Canada Research Chairs**: 1577 Research chairs awarded from 2000 to June 2005. Five-year review underway.
 - Tier 1 (\$200K for 7 years) and Tier II (\$100K for 5 years)
 - 14% to expatriate Canadians, 16% to international
 - By Granting Council: NSERC (679), CIHR (486), SSHRC (344)
- **Indirect Costs of Research** (2001 start, ongoing since 2003)
 - \$260 M per year to Universities (tied to grant funding)





Evolving Environment for Science in Canada

National Science Advisor gets established :

- Developing National Framework for Major Science Investments
 - Basis for assessment, comparison, and prioritization of “Big Science” projects including “life-cycle” implications
- Coordinating review of Government research activities
- Involved with establishment of Canadian Academies of Science

Other Initiatives :

- Advisory Council on Science and Technology





The Canadian Association of Physicists

- Liaison: Government, NSERC, International
- Physics Education (curriculum review, teacher workshops)
- Annual CAP Congress
- Lecture Tour
- Physics in Canada (magazine)
- Protection of Profession
- Professional Certification
- Student support (CUPC, Prize Exams, Committee for Student Affairs, Science Fairs, Olympiad, career info)
- Medals and Awards

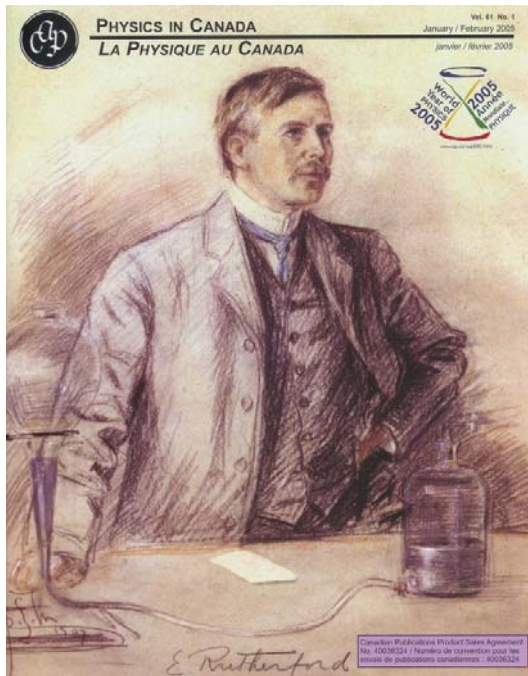




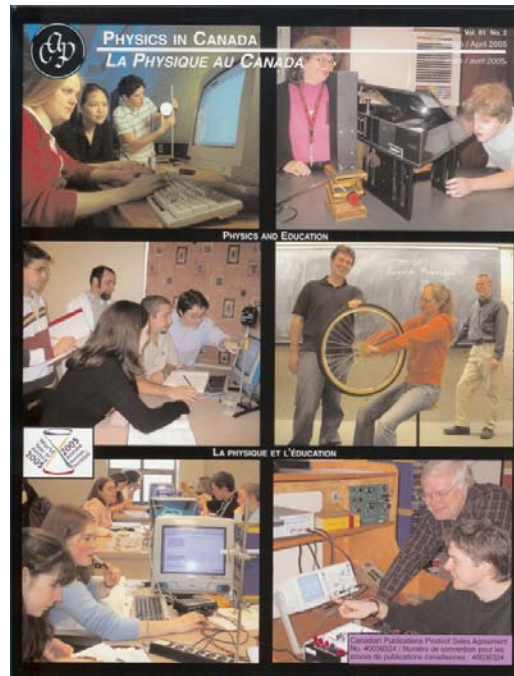
Physics in Canada

Bi-monthly with special issues
(at least twice a year):

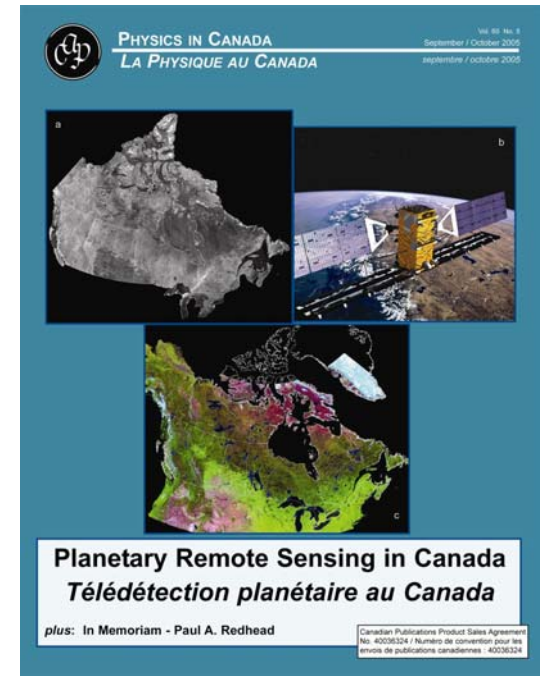
Jan/Feb 2005



March/April 2005



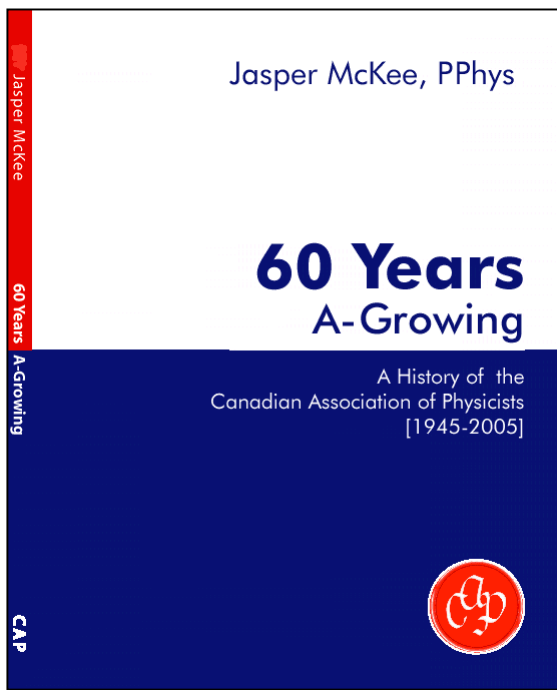
Sept/Oct 2005



In 2006: Instrumentation and Measurement Physics (Mar/Apr),
Neutron Scattering (Sept/Oct)



CAP's 60th Anniversary



“60 Years-A-Growing: A Brief History of the CAP”

- Written by Jasper McKee,
University of Manitoba
- Past president, P.Phys.

Plus - honouring long-term members at
2006 Congress, Brock University





CAP Congress

- Vancouver, June 2005 (UBC/TRIUMF)
 - Year of Physics Congress; special celebrations
 - Over 600 registrants
 - Opening Herzberg Public Lecture by Clifford Will (U of Washington at St. Louis)
 - Specially commissioned String Quartet played by Borealis (resident quartet at UBC; nationally renowned)
 - First Science Policy Plenary Session
 - Talks by Julia Levy, QLT; Mike Lazaridis, RIM; and Mike Lubell, APS
 - Launch of CAP/PI National WYP2005 Lecture Tour





CAP Activities for 2005 International Year of Physics

- Jan-Mar 2005 CAP Regular Lecture Tour
 - Sponsored by CAP Educational Trust fund
 - Speakers reflected different aspects of Einstein's legacy
 - Lead-in to National Public Lecture Tour
- WYP2005 Calendar and Wall Poster
 - Sponsored by CAP, NSERC, NRC, CLS, CFI, AECL, CSA
 - Distributed to every high school physics teacher in Canada
- Participated in International Events
 - Paris, Washington, Rio de Janeiro, Berlin, Berne, South Africa





CAP Activities for 2005 International Year of Physics

- Partnered with Canada Science and Technology Museum
 - Mega-Science Exhibit
 - Sudbury Neutrino Observatory (SNO), Canada's Nobel Laureates (Brockhouse/Herzberg), and Dominion Observatory 100th anniversary portion opened Feb. 2005
 - Tokamak and ZEEP Reactor portion opened Oct. 2005
- Partnered with Ontario Association of Physics Teachers
 - Einstein: A Stage Portrait (a one-man play held in Ottawa, ON)
- Partnered with Perimeter Institute for Theoretical Physics
 - CAP/PI National Lecture Tour
 - Month-long "EinsteinFest" at Perimeter Institute in Waterloo, ON
 - major outreach activity
 - over 28,000 visitors to Institute

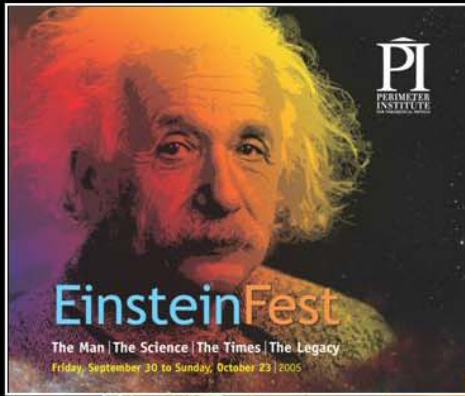




EinsteinFest

The Man | The Science | The Times | The Legacy

Friday, September 30 to Sunday, October 23 | 2005



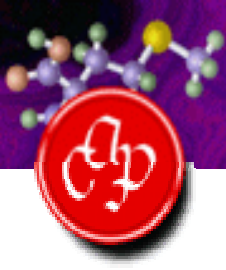


Was Einstein Right?

Clifford M. Will

*Professor of Physics,
University of
Washington
at St. Louis*





CAP/PI National Lecture Tour

by Clifford Will – “Was Einstein Right?”

June 5/05 – CAP Annual Congress, Vancouver BC *

Oct. 5/05 – Perimeter Institute, Waterloo, ON

Oct. 17/05 – University of Western Ontario, London, ON *

Oct. 18/05 – McMaster University, Hamilton, ON *

Oct. 19/05 – University of Toronto, Toronto, ON *

Oct. 20/05 – Queen’s University, Kingston, ON *

Oct. 21/05 – Canada Science and Technology Museum, Ottawa, ON

Oct. 22/05 – University of Ottawa/Carleton University, Ottawa, ON

Oct. 24/05 – Memorial University of Newfoundland, St. John’s, NL

Oct. 25/05 – St. Francis Xavier University, Antigonish, NS

Oct. 27/05 – Dalhousie University, Halifax, NS

** Includes performance
by string quartet*





CAP/PI National Lecture Tour by Clifford Will – “Was Einstein Right?”

Nov. 7/05 – Science North, Sudbury, ON

Nov. 8/05 – University of New Brunswick, Fredericton, NB *

Nov. 9/05 – Laval University, Quebec City, QC

Nov. 10/05 – McGill University, Montreal, QC

Nov. 11/05 – Université de Montréal, Montréal, QC

Nov. 11/05 – Université de Sherbrooke, Sherbrooke, QC

Nov. 14/05 – Univ. of Winnipeg/Univ. of Manitoba, Winnipeg, MB *

Nov. 15/05 – University of Regina, Regina, SK *

Nov. 16/05 – University of Saskatchewan, Saskatoon, SK *

Nov. 17/05 – University of Alberta, Edmonton, AB *

Nov. 18/05 – University of Calgary, Calgary, AB

Nov. 19/05 – University of Victoria, Victoria, BC

** Includes performance
by string quartet*





Outlook

- Over past decade, CAP has enjoyed growing support from Canadian Physics community
 - Recognition of importance of liaison with government and funding agencies
 - Appreciation of Congress and Physics in Canada
 - Support for educational initiatives
- BUT, we are still small: 2 staff and 1600 members
- Value relationship with APS
 - Looking forward to CAM07 in Canada and other opportunities to collaborate

