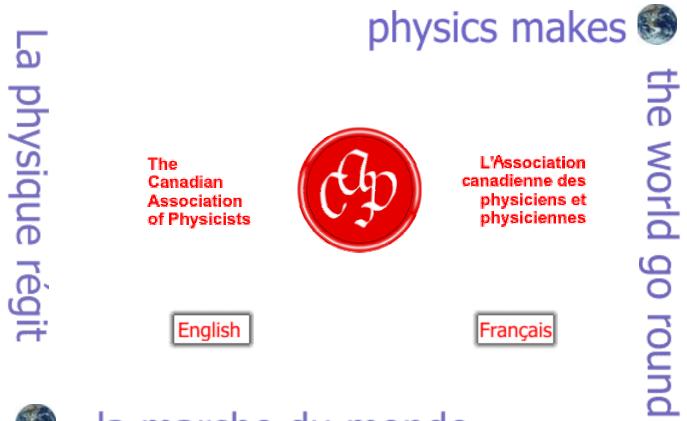
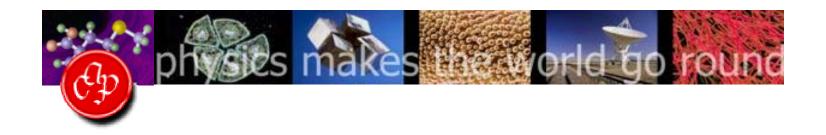
http://www.cap.ca





la marche du monde

(a secure web site)



The Canadian Association of Physicists

- •Liaison with Government and the Natural Sciences and Engineering Research Council
- •Protection of the Profession
- •Physics Education
- •The Annual CAP Congress
- •Physics in Canada





Liaison with Government (Federal)

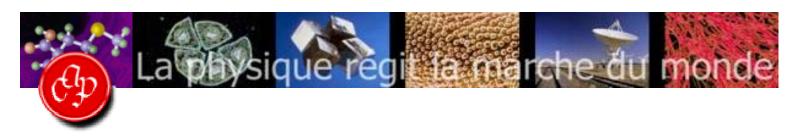
Context: Research Funding had declined dangerously by the early 90's (brain drain fears). The federal government is the driving force behind research. Provinces follow suit through matching funds (mostly: Alberta, Ontario, Quebec)

CAP is a lead organization in lobbying efforts through

- •Tri-Society (Physics, Biology, and Chemistry)
- Canadian Consortium for Research
- •Partnership Group for Science and Engineering (PAGSE)

The intense lobbying efforts bore fruit:





Great Improvements in Science Funding since 1997

The Federal government's Innovation Strategy: to bring Canada from 10th to 5th in R&D investment by 2010 What has been done:

- 1. Canada Research Chairs (1200 research professors)
- 2. Canadian Foundation for Innovation (CFI) (\$1.8 B spent since 1997, \$10 B by 2010)
- 3. Increase in Granting Councils Budgets (14 to 17%)
- 4. Indirect Costs of Research (\$200 M /year)
- 5. Millennium and Canada Graduate scholarships
- 6. Canadian Light Source (\$35 K/year)



physics makes the world go round

Liaison Committee with NSERC (Natural Sciences and Engineering Research Council)

- Initiated by the CAP, because of the **Reallocation Exercise** (every four year, 10% of each committee's budget taken away and redistributed based on the quality of plans to spend the Money)
- For Physics: 1st exercise, disastrous; 2nd, good; 3rd, excellent
- In its current form, the exercise has run its course (divisive, stressful)

It is being rethought!





- 1.- NSERC provides the bulk of operating grants for Research.

 It is under stress because of:
- New applicants: in physics nearly a third of all applicants (including senior Canada Research chairs)
- New equipment (CFI): increased operating costs for a larger infrastructure

 NSERC's budget needs to be doubled by 2010.
- N.B. Average NSERC operating grant \$32 K/ year, in physics \$43K/y (condensed matter \$49.2K/y)





- 2.- The Canadian Neutron Facility not yet funded: political issues + not easy to sell to the public plans for a new Nuclear Reactor
- 3.- Increased emphasis on research in universities (Federal spending, matched by provinces)

but no new money for teaching resources(Canada Research Chairs teach little or not all)

4.- Issue of Government labs: fundamental research shifted to universities, but there is a role for labs dedicated to research (now, main mission: creating new companies)



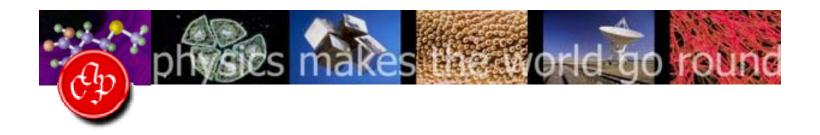


Practice of the Profession

- Every province has an Engineering Act regulating the profession: Engineering encompasses all human activities involving science and engineering, with exemption clauses for natural scientists.
- A constant vigilance is required:

 The New Act in British Columbia maintains the exemption clause but adds the requirement of membership in a Canadian learned society (!! e.g. CAP).
- New buzzword: "inclusion" (technologists, ...)





Professional Physicist (P.Phys. ®, phys. ®)

A means to protect in the long term the practice of the profession in Canada

- A registered trademark
- A certification process (code of ethics)
- 169 licensees

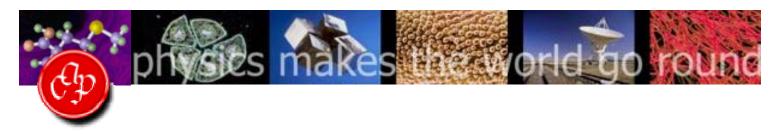




Physics Education

- Current main goal: Revitalization of the undergraduate physics programs to ensure healthy enrolments (through a national plan of renewal of the curriculums)
- + a set of ongoing outreach activities (Careers web site, lecture tours, prize exams, Undergraduate Physics Conf., high school teachers workshops)





The annual CAP Congress

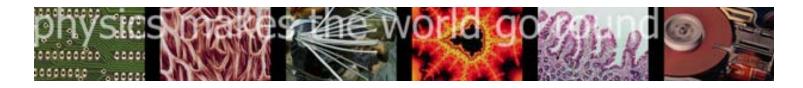
•Is gaining in popularity and impact 2002, Quebec City, 1000 attendees (with Photonics North)

2003, Prince Edward Island, 500

•In June 2004, in Winnipeg, jointly with four societies: CAP, astronomers (CASCA), medical physicists (COMP), biophysicists (BSC) 100th anniversary of the University of Manitoba



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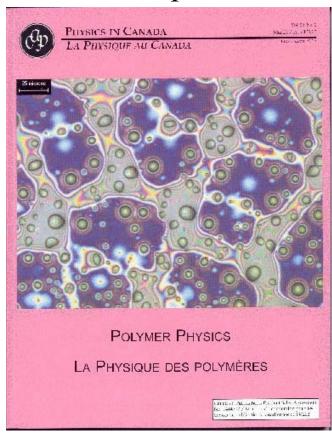
Physics in Canada

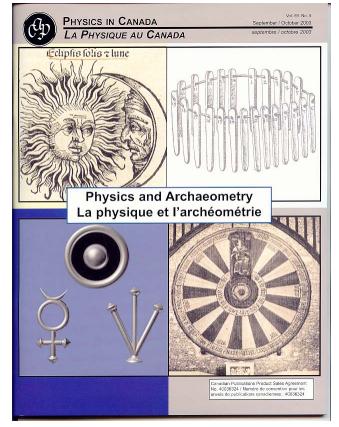
(a bi-monthly publication)

Special issues, twice a year. The last two:

March/April 2003

Sept/Oct 2003





In 2004: Biophysics and Quantum Optics



During the last decade, CAP's relevance to the Canadian Physics community has greatly increased!

Cooperation with the APS

- •We are small: 2 staff and 1600 members
- •Appreciate cooperation we are receiving from APS (CAM03, World Year of Physics 2005)
- Pleased that the 2004 March Meeting is being held in Montreal

