



Canadian Association of Physicists
Association canadienne des physiciens et physiciennes

President's Report

Annual General Meeting

June 13, 2024

SUPPORTING PHYSICS RESEARCH AND EDUCATION IN CANADA

APPUI À L'ENSEIGNEMENT ET À LA RECHERCHE EN PHYSIQUE AU CANADA



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CAP 2019- 2024 Strategic Plan: Objective 1

Achieve organizational and operational excellence to provide services in an effective, efficient and transparent manner

- Integration of operations with Megram (started in 2021, almost complete)
- Updating governance documents
 - Director position descriptions
 - Board committee terms of reference
 - Operating committee terms of reference
 - Councillor position descriptions
 - Operating policies
- CAP Department/Institutional Representatives (CAP Reps)



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CAP 2019-2024 Strategic Plan: Objective 2

Strengthen the profession of physics by connecting and engaging the breadth of physics interests in Canada

- CAP - CASCA partnership to establish new National Roundtable

Biophysical Society of Canada

Canadian Applied and Industrial Mathematics Society

Canadian Association for Computational Science and Engineering

Canadian Institute for Nuclear Physics

Canadian Mathematical Society

Canadian Meteorological and Oceanographic Society

Canadian Nuclear Society

Canadian Organization of Medical Physicists

Canadian Society for Chemistry

Institute of Particle Physics

Statistical Society of Canada.

Theory Canada



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Physics / Science Advocacy

Submission to Finance Committee – 2024 Federal Budget

Biophysical Society of Canada
Canadian Astronomical Society
Canadian Institute for Nuclear Physics
Canadian Light Source
Canadian Organization of Medical Physicists
Perimeter Institute
SNOLAB
TRIUMF



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Physics / Science Advocacy

Meetings with Government Officials (Budget Submission)

Rowan Thomson, CAP EDI Implementation Committee
Meaghen Shiha, CAP Student Advisory Council (PhD Student)
Kate Fenwick, CAP Member (PhD Student)
Barbara Frisken, CAP Past President
Nancy Forde, CAP Member
Bill Whelan, CAP President

Office of the
Prime Minister



Cabinet du
Premier ministre



Innovation, Science and
Economic Development Canada



Natural Resources
Canada



Agriculture and
Agri-Food Canada





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Physics / Science Advocacy

Partnerships





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Outreach

CAP Outreach Committee

Mark Richardson (McDonald Institute) - Chair

John Donohue (IQC)

Blaire Flynn (SNOLAB)

Marie Strickland (Perimeter Institute)

- to identify actions that will help to educate the general public on, and promote awareness of, physics;
- to recommend ways the CAP could serve as a physics outreach connector or hub, to capture the outreach efforts from across the country by members and institutional partners, and to consolidate access to outreach resources.



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New Division of Quantum Information

Daria Ahrensmeier (SFU Physics)

Olivia De Matteo (UBC)

Thomas Baker (U.Victoria)

Carlo Maria Scandolo (U.Calgary)

2025 International Year of Quantum Science and Technology



CAP IQT Task Force: Co-chairs

Daria Ahrensmeier, SFU (Chair, CAP Division of Quantum Information)

Oliver Stelzer-Chilton, TRIUMF (CAP Director of International Affairs)



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Division of Applied Physics and Instrumentation (DAPI) 2023/24 Chair: Steffon Luoma	Division of Atomic, Molecular and Optical Physics, Canada (DAMOPC) 2023/24 Chair: Jens Lassen
Division of Atmospheric and Space Physics (DASP) 2023/24 Chair: David Themens	Division of Condensed Matter and Materials Physics (DCMMP) 2023/24 Chair: Tami Pereg-Barnea
Division for Gender Equity in Physics (DGEP) 2023/24 Chair: Carolyn Sealfon	Division on the History of Physics (DHP) 2023/24 Chair: Vacant
Division of Nuclear Physics (DNP) 2023/24 Chair: Liliana Caballero Suarez	Division of Physics Education (DPE) 2023/24 Chair: John Donohue
Division of Physics in Medicine and Biology (DPMB) 2023/24 Chair: Mamadou Diop	Division of Plasma Physics (DPP) 2023/24 Chair: Stephan Reuter
Division of Quantum Information (DQI) 2023/24 Chair: Daria Ahrensmeier	Division of Surface Sciences (DSS) 2023/24 Chair: Viki Meli
Division of Theoretical Physics (DTP) 2023/24 Chair: Ivan Booth	Particle Physics Division (PPD) 2023/24 Chair: Seyda Ipek



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Cooperation / Collaboration with the American Physical Society

- Membership (enhance agreement, joint/discounted membership)
- Career Planning/Resources (share programming, sustainability)
- EDI Policies/Practices (share approaches/strategies)
- Advocacy (share approaches, unified voice, joint statements)
- Student/Researcher Mobility (cross border and visa support)





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Updates

- Successful 2024 Lecture Tour (hybrid, virtual)
- Successful 2024 Congress (Western University, London ON)
- Recognitions (medals and prizes)





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Updates

- 2023 and 2024 CAP Fellowships





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Updates

- Student Advisory Council
- CUPC, October 2023 (University of Waterloo)
- CCUWiP, January 2024 (McGill University and the Université de Montreal)
- 2SLGBTQ+ in STEM Conference, May 2024 (University of Regina)
- University Prize Exam (not offered, to be restructured)
- High School Prize Exam (568 students, 108 schools)
- Canada-Wide Science Fair, May 2024 (CAP Booth and Prize) – Carleton University



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Updates

- Private Sector Physics
 - Focus on Congress Symposium
 - Speakers from Honeywell Aerospace and Quantum Valley Ideas Lab
- Academic Affairs
 - Local budgetary challenges and provincial funding.
 - Research grant funding and elimination of Bin J (NSERC).
 - Increase in graduate scholarships without increase in grant amounts.
 - Open access requirements, data management plans, risk management plans, Sensitive Technology Research and Affiliations of Concern (STRAC).



Canadian Association of Physicians
Association canadienne des médecins et médecins

NEW CAP Strategic Plan

- Survey Membership (330 individual responses)
 - 66% current members
 - 14% previous members
 - 20% never been a member
- In-Person Planning Session (May 24/25)
 - CAP Board
 - Advisory Council
 - Institutional Members
 - Student Advisory Council
- Drafting Strategic Plan and Implementation Plan (Jan 1, 2025 release)



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The CAP's greatest strength is its community of motivated volunteers who give of their time and talents to support physics education and research across the country.



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Thank you very much!

Questions?