

## 2024 CAP FELLOWS / LES FELLOWS DE L'ACP DE 2024

The CAP is pleased to announce the 2024 CAP Fellows (FCAP). The CAP Fellowship Program recognizes CAP members who have made important contributions in physics research, in physics teaching, in the advancement of technology, or in service to physics in Canada.

L'ACP est heureuse d'annoncer les 2024 Fellows de l'ACP (FCAP). Le programme de bourses de l'ACP reconnaît les membres de l'ACP qui ont apporté une contribution importante à la recherche en physique, à l'enseignement de la physique, à l'avancement de la technologie ou au service de la physique au Canada.



**Corina Andreoiu, Simon Fraser University**, in recognition of her influential contributions to subatomic physics, particularly in advancing the understanding of collective behavior and shape co-existence in nuclei, and for dedication to the Canadian physics community through tireless service to the CAP, the Canadian Institute of Nuclear Physics, and TRIUMF.



**Xiaoyi Bao, University of Ottawa**, in recognition of her ground-breaking work in the field of fiber optics and photonics; and in recognition of inspiring mentorship which has empowered a diverse group, notably women, to secure faculty positions, establish companies, and assume executive positions.



**Robert Brandenberger, McGill University**, in recognition of his coupling of ground-breaking developments in theoretical cosmology with recent dramatic advances in observational astronomy of the early universe; and an outstanding record of mentorship and training.



**Melanie C.W. Campbell, University of Waterloo**, in recognition of her outstanding research contributions to visual optics and novel ocular imaging; and for advocacy for women in physics and for service to the Canadian physics community, in particular as President of the CAP.



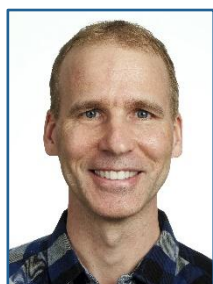
**Marie D'Iorio, University of Ottawa**, in recognition of her research contributions to semiconductor quantum structures and organic electronics; and for contributions to applied and private sector physics through major roles as Director-General of NRC's Institute for Microstructural Sciences and as the Executive Director of the National Institute for Nanotechnology (NINT).



**Cecile Fradin, McMaster University**, in recognition of her influential contributions to experimental biophysics, particularly with optical probes of dynamics within the crowded medium of cells, and for excellence in the education and mentorship of junior scientists at all levels.



**Gwen Grinyer, University of Regina**, in recognition of her outstanding research contributions of ultra-high precision measurements to test the Standard Model description of electroweak interactions and designing of state-of-the-art instrumentation to study the structure of rare isotopes; and for championing equity, diversity and inclusion, and challenging the barriers faced by women and 2SLGBTQ+ people in STEM.



**Eric Hessels, York University**, in recognition of their advancements in the state of the art for high precision atomic physics measurements and establishment of tests of fundamental physics; and for an outstanding record of mentorship and training.



**Rituparna Kanungo, Saint Mary**, in recognition of her contributions to experimental subatomic physics and groundbreaking discoveries in rare isotopes and nuclear shells; and for leadership of international collaborations in Japan, Germany, and Canada's TRIUMF, and service to national and international organizations.



**Karen Kavanagh, Simon Fraser University**, in recognition of her contributions to the formation and characterization of novel electronic materials and interfaces and for techniques applied to the nanofabrication of metallic nanohole arrays whose polarization properties help secure Canadian banknotes against counterfeiting; and for service to the Canadian physics community and a dedication to outreach.



**Christine Kraus, SNOLAB**, in recognition of her contributions to Canadian physics through service to the Canadian Association of Physicists in various organization and administrative roles, often with a focus on equity, diversity and inclusion; and for major research contributions to the SNO and SNO+ experiments, increasing the impact of Canadian physics research.



**Gabor Kunstatter, University of Winnipeg**, in recognition of his outstanding service to the Canadian physics community and leadership in the CAP, and for influential contributions to theoretical physics in the areas of quantum field theory, black holes and quantum gravity.



**Robert Mann, University of Waterloo**, in recognition of his outstanding research contributions in theoretical physics and excellence in teaching; and for dedicated service to the Canadian physics community, in particular as President of the CAP.



**Michael R. Morrow, Memorial University of Newfoundland**, in recognition of his extensive service to the Canadian physics community, including science outreach and serving as the CAP President; and in recognition of research using nuclear magnetic resonance to study molecules in model membranes and bilayers.



**Robert Myers, Perimeter Institute for Theoretical Physics**, in recognition of his ground-breaking research in quantum field theory and quantum gravity; and for service to the Canadian theoretical physics community, especially through contributions to the founding of the Perimeter Institute.



**Manu Paranjape, Université de Montréal**, in recognition of his service to the CAP and the Canadian theoretical physics community, including the organization of the Theory CANADA series of conferences; and for the extraordinary breadth, creativity, and originality of his research resulting in exceptional contributions to the field of theoretical physics.



**William Richard Peltier, University of Toronto**, in recognition of his key contributions to understanding the physics of the Earth, including glacial isostatic adjustment, mantle convection, fluid dynamics of the atmosphere and oceans, and global climate variability; and for an outstanding record of mentorship and training.



**Federico Rosei, INRS-Energie et Matériaux**, in recognition of his remarkable achievements in materials physics, particularly multiferroic materials and quantum dots, coupled with outstanding mentorship of trainees, and for international leadership which promotes the excellence of Canadian physics on a global scale.



**Wendy Taylor, York University**, in recognition of her outstanding contributions to particle physics including leading collider searches for magnetic monopoles, B-meson oscillations, and CP violation; and for notable service to the physics community, engaging in physics outreach, and tirelessly promoting equity, diversity, and inclusion in physics.