CONGRATULATIONS

## CAP Members Become New Fellows of the Royal Society of Canada

**BAO, XIAOYI**
**Department of Physics, University of Ottawa**

Dr. Xiaoyi Bao has made exceptional contributions in distributed Brillouin sensors and their applications to civil structures as well as dynamic impairment emulator for evaluation and design of high speed communications systems. Her pioneering efforts on diagnosing the health of structures connects measured physical parameters with the status of the civil structures, which is instrumental in preventing the collapse of steel and concrete structures. She is making outstanding contributions not only to the development of the sensing technology but also to the discipline of physics in general.

**ORR, ROBERT**
**Department of Physics, University of Toronto**

Robert Orr is one of Canada's leading experimental particle physicists, having made crucial contributions to discoveries in elementary particles. Through the development and exploitation of new experimental techniques, he has made seminal contributions to the study of the electroweak interaction, proton structure and heavy quark physics. Through his leadership, a team of 100 Canadian scientists is playing a significant role in the ATLAS experiment at the CERN Large Hadron Collider, a project designed to uncover the fundamental mechanism for mass and search for phenomena that would allow us to understand the properties of the basic forces.

## CAP Members Become New Fellows of the American Physical Society

**PAGE, SHELLEY A.**
**University of Manitoba**

Citation: For her leading role in a series of sequential hadronic parity violation experiments designed to elucidate the interplay of the weak and strong interactions in hadronic systems.
Nominated by: Nuclear Physics (DNP)

**BAARTMAN, RICHARD A.**
**TRIUMF**

Citation: For significant contributions to the theory and elucidation of collective instabilities and higher order aberrations in particle accelerators and beamlines.
Nominated by: Physics of Beams (DPB)

**BECHHOEFER, JOHN L.**
**Simon Fraser University**

Citation: For seminal experimental and theoretical contributions to nonlinear dynamics, pattern formation, phase transitions, solidification and biological physics as well as important advances of scientific instrumentation.
Nominated by: Statistical & Nonlinear Physics (GSNP)

**LUKE, MICHAEL**
**University of Toronto**

Citation: For seminal contributions to the phenomenological understanding of heavy quark decays, providing experimentalists with the tools needed to make precision measurements of several fundamental parameters in the Standard Model.
Nominated by: Particles and Fields (DPF)

**SLATER, GARY W.**
**University of Ottawa**

Citation: For groundbreaking contributions to our understanding of electrophoretic sieving and entropic separations of macromolecules in gels, solutions, and microfluidic devices.
Nominated by: Polymer Physics (DPOLY)

**SPRUNG, DONALD W.L.**
**McMaster University**

Citation: For his many important contributions to the understanding of nuclear dynamics, including the development of the first realistic soft-core two-nucleon interaction and the identification of the role of long-range interactions in the deuteron.
Nominated by: Few-Body Systems & Multiparticle Dynamics (GFB)