

G. B. FROST MEMORIAL LECTURE

The Grenville Frost Visiting Lectureship in Chemistry was established in 1966 by a bequest from the estate of the Honourable Leslie M. Frost, Premier of Ontario, in memory of his brother, Grenville. This fund is used to invite a Visiting Lecturer to Queen's.

Grenville Frost completed his education at the University of Toronto and, after graduating, went on to the University of California where he worked under the famous G.N. Lewis. Dr. Frost was appointed Lecturer at Queen's in 1924 and Full Professor in 1944. He became Head of the Department of Chemistry in 1956 and served in this post until retirement in 1961.

Dr. Frost was also the Supervisor to H.G. McAdie, who was the first Ph.D. Graduate in the Department of Chemistry.

PREVIOUS FROST LECTURERS

- 2023 • *Hung-Wen Liu*
- 2022 • *Vojislav Stamenkovic*
- 2021 • *Christopher C. Cummins*
- 2019 • *Paul Anastas*
- 2018 • *Gerhard Erker*
- 2016 • *Lisa McElwee-White*
- 2015 • *Graham Cooks*
- 2014 • *Guy Lloyd-Jones*
- 2011 • *John M. Brown*

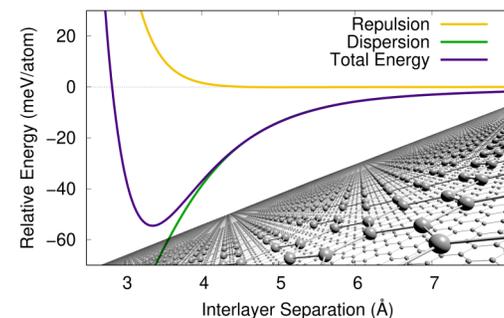


**Department of Chemistry
Queen's University**

is honoured to host the
2026 Frost Lecturer:

Dr. Erin R. Johnson
Dalhousie University

“London Dispersion, Density-
Functional Theory, and
Molecular Crystals”



Friday, February 20, 2026
11:30 AM
Chernoff Hall, Room 117

DR. ERIN R. JOHNSON



Dr. Erin R. Johnson

Professor
Herzberg-Becke Chair in Theoretical Chemistry
Department of Chemistry
Dalhousie University

Dr. Erin R. Johnson is originally from Ottawa, Canada and obtained her B.Sc. (Honours) at Carleton University. She completed her Ph.D. in chemistry at Queen's University in 2007, under the supervision of Prof. Axel Becke. She was then an NSERC post-doctoral fellow at Duke University in the group of Prof. Weitao Yang. Johnson is now a Professor at Dalhousie University, in Halifax, Canada, where she holds the Herzberg-Becke Chair in Theoretical Chemistry. She is also currently a Royal Society Wolfson Visiting Fellow at the University of Cambridge. Her research focuses on development and application of density-functional theory, with an emphasis on intermolecular interactions and molecular crystals.

SELECTED AWARDS & HONOURS

- 2021 Steacie Prize
- 2020 Rutherford Memorial Medal in Chemistry
- 2019 E.W.R. Steacie Memorial Fellowship
- 2018 Dirac Medal

SELECTED PUBLICATIONS

- R. A. Mayo, K. M. Marczenko, E. R. Johnson, Quantitative Matching of Crystal Structures to Experimental Powder Diffractograms. *Chem. Sci.* 14, 4777-4785 (2023).
- A. J. A. Price, R. A. Mayo, A. Otero de la Roza, E. R. Johnson, Accurate and efficient polymorph energy ranking with XDM-corrected hybrid DFT. *CrystEngComm* 25, 953-960 (2023).
- A. J. A. Price, A. Otero de la Roza, E. R. Johnson, XDM-corrected hybrid DFT with numerical atomic orbitals predicts molecular crystal energetics with unprecedented accuracy. *Chem. Sci.* 14, 1252-1262 (2023).