

G. B. FROST MEMORIAL LECTURE

PREVIOUS FROST LECTURERS



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

2011 • *Dr. John M. Brown*

2014 • *Dr. Guy Lloyd-Jones*

2015 • *Graham Cooks*

2016 • *Lisa McElwee-White*

2018 • *Gerhard Erker*

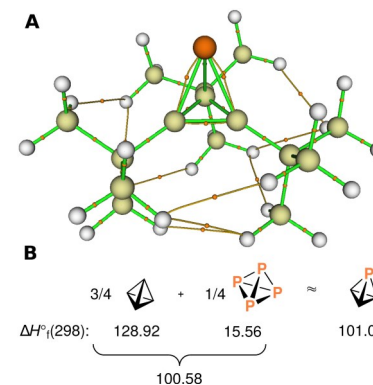
2019 • *Paul Anastas*

**Department of Chemistry
Queen's University**

is honoured to host the
2021 Frost Lecturer:

Dr. Christopher C. Cummins
Massachusetts Institute of
Technology

"Phosphorus-Element Bond-
Forming Reactions"



Friday, January 15, 2021
11:30 AM
Virtually via Zoom

DR. CHRISTOPHER C. CUMMINS



Christopher C. Cummins

Massachusetts Institute of Technology
Department of Chemistry
Cambridge, MA

Dr. Christopher "Kit" Colin Cummins is currently the Henry Dreyfus Professor of Chemistry at the Massachusetts Institute of Technology. Among the most innovative synthetic chemists of his generation, Cummins is known for his pioneering work in early transition-metal chemistry, small molecule activation, and metal-element multiple bonds. He graduated from Cornell University with an A. B. degree in 1989. Then he undertook graduate studies in inorganic chemistry under the direction of Professor Richard R. Schrock at MIT and obtained his Ph.D. in 1993. Also in 1993, he joined the chemistry faculty at MIT as an Assistant Professor, and was promoted to the rank of Professor in 1996.

Research themes in the Cummins group showcase exploratory synthesis and reactivity investigations with an emphasis on the activation of stable small molecules, and on the generation of highly reactive molecules that are not sufficiently stable for isolation. This aligns with the development of methods for the incorporation of nitrogen and phosphorus into organic molecules as encapsulated by the meme "Synthesis from the Elements".

SELECTED HONOURS & AWARDS

- Honorary Professor of the Institute, IISER Kolkata, 2018-2021
- Linus Pauling Medal, 2017
- National Academy of Sciences, Elected Member 2017
- Fellow, Hagler Institute for Advanced Study at Texas A&M University, 2016-2017
- RSC Ludwig Mond Award 2013
- Inaugural ACS-DIC Inorganic Chemistry Lectureship Award 2013
- American Academy of Arts and Sciences, Elected Member 2008
- Raymond and Beverly Sackler Prize in the Physical Sciences 2007
- ACS F. Albert Cotton Award in Synthetic Inorganic Chemistry 2007
- Corresponding Member, Akademie der Wissenschaften zu Göttingen 2005
- Alexander von Humboldt Research Award 2002