

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

SELECTED PUBLICATIONS

- P. P. Lopes, D. Li, H. Lv, C. Wang, D. Tripkovic, Y. Zhu, R. Schimmenti, H. Daimon, Y. Kang, J. Snyder, N. Becknell, K. L. More, D. Strmcnik, N. M. Markovic, M. Mavrikakis and V.R. Stamenkovic; *Eliminating dissolution of Pt-based electrocatalysts at the atomic scale*; Featured Cover Article: **Nature Materials** 19 (2020) 1207.
- P. P. Lopes and V. R. Stamenkovic; *Past, Present and Future of Lead-Acid Batteries*; **Science**, 369 (2020) 923.
- D.van der Vliet, C. Wang, D. Tripkovic, D. Strmcnik, X. F. Zhang, M. K. Debe. R. T. Atanasoski, N.M.Markovic, and V.R.Stamenkovic; *Mesostructured Thin Films as Electrocatalysts with Tunable Composition and Surface Morphology*, **Nature Materials**, 11(2012)1051-1058.

PREVIOUS FROST LECTURERS

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
2022 Frost Lecturer:

Dr. Vojislav Stamenkovic
University of California, Irvine

"Electrochemical Interfaces for
Energy Conversion and
Storage"



Friday, November 4, 2022
11:30 AM
Chernoff Hall, Room 117

DR. VOJISLAV STAMENKOVIC



Vojislav Stamenkovic

Department of Chemical and Biomolecular Engineering
Department of Chemistry
University of California, Irvine
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Vojislav Stamenkovic is a Professor at the University of California, Irvine, Department of Chemical and Biomolecular Engineering and Department of Chemistry. He is also the founding Director of Horiba Institute for Mobility and Connectivity at the UCI's Henri Samueli School of Engineering. He serves as an Associate Editor at ACS Catalysis, and on the Editorial Board of Surface Science and Surface Science Letters.

Dr. Stamenkovic earned his Ph.D. degree in physical chemistry from the University of Belgrade, Serbia (which is well-known electrochemical hub) in 2001, after spending three years as a visiting scientist at the University of California Berkeley. From 2002 to 2006 he was a postdoctoral scientist within the Materials Sciences Division at the Lawrence Berkeley National Laboratory. He transitioned to Argonne's National Laboratory Materials Science Division in 2006, where he advanced into a Senior Scientist and Group Leader while conducting multidisciplinary research related to materials for electrochemical energy conversion and storage. His research interests include surface science, electrocatalysis, spectroelectrochemistry, design and synthesis of functional materials, fuel cells, batteries, electrolyzers and hydrogen production.

Dr. Stamenkovic received numerous awards such as: Recognition Award from Lawrence Berkeley National Laboratory, Distinguished Performance Award by the University of Chicago, and the DOE Hydrogen and Fuel Cells Award in recognition for his outstanding contributions in R&D.

He has published over 180 articles and book chapters for which he received over 45,000 citations with an h-index of 83, and since 2018 he has been recognized as a Highly Cited Researcher by Clarivate Web of Science. He authored over 20 patents, 200 presentations and has been over 100 times an invited plenary and keynote speaker at major conferences, symposia and seminars.

SELECTED AWARDS & HONOURS

- **Highly Cited Researcher - Ranking in the top 1% worldwide researchers** - by citations among all fields of science, Web of Science, 2018-2021
- **CARA BASF Named Lecture in Chemical Sciences by Department of Chemistry University of California, Berkeley:** 2021
- **US Department of Energy Hydrogen and Fuel Cells Award** Washington DC, June 2014
- **Strategic Leader** selected by Director of Argonne National Laboratory University of Chicago, Business School, 2014
- **Distinguished Performance Award** University of Chicago / ANL, Argonne, IL, August 2012
- **Selected Speaker** at the **US National Academy of Engineering** US National Academy of Engineering, Frontiers of Engineering, Irvine, CA, February 2008
- **Spot Recognition Award by Lawrence Berkeley National Laboratory**, Berkeley, CA, April 2004