

Jennifer R. Hampton

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Professional Experience

Hope College

Professor of Physics	July 2020 – present
Chair, Department of Physics	July 2019 – present
Associate Professor of Physics	July 2013 – June 2020
Interim Chair, Department of Physics	July 2013 – June 2014
Assistant Professor of Physics	July 2007 – June 2013

Cornell University

Visiting Scientist Department of Chemistry and Chemical Biology	August 2014 – May 2015
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Washington & Jefferson College

Assistant Professor of Physics	August 2005 – June 2007
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The Pennsylvania State University

Postdoctoral Scholar Departments of Chemistry and Physics Advisor: Paul S. Weiss	September 2002 – July 2005
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Cornell University

Graduate Research Assistant Department of Chemistry and Chemical Biology Department of Physics	January 1998 – August 2002
Graduate Teaching Assistant Department of Physics	Spring 1998, Spring 1999

Education

Cornell University

Ph.D., Experimental Physics Minor in Chemistry/Chemical Physics Thesis: Magnetic Studies of Electrodeposited Thin Films and Compositionally Modulated Structures Advisor: Héctor D. Abruña	August 2002
M.S., Physics	May 1999

University of Cambridge

M.Phil., Physics Thesis: Formation and Properties of Thermally Prepared Copper(I) Oxide Advisor: C. John Adkins	November 1996
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Oberlin College

B.A., Physics with Highest Honors	May 1995
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Honors & Awards

Hope College Sigma Pi Sigma	2008
National Physical Science Consortium Fellowship	1996 – 2002
Winston Churchill Foundation Scholarship	1995 – 1996
Oberlin College Sigma Xi	1995
Oberlin College Phi Beta Kappa	1994

Selected Publications

- B. K. Wheatle, J. R. Hampton, G. G. Rodríguez-Calero, J. G. Werner, Y. Gu, U. Wiesner, and H. D. Abruña, “Electrochemical generation of hexacyanoferrate and hexacyanoruthanate electroactive films at nickel electrode surfaces: A promising synthetic approach for new electrode materials in metal ion batteries and supercapacitors,” *J. Electroanal. Chem.* **871**, 114284 (2020).
- A. Rensmo and J. R. Hampton, “Comparison of Charge Storage Properties of Prussian Blue Analogues Containing Cobalt and Copper,” *Metals* **9**, 1343 (2019).
- B. E. Peecher and J. R. Hampton, “Dealloying Behavior of NiCo and NiCoCu Thin Films,” *Int. J. Electrochem.* **2016**, 2935035 (2016).
- M. J. Gira, K. P. Tkacz, and J. R. Hampton, “Physical and Electrochemical Area Determination of Electrodeposited Ni, Co, and NiCo Thin Films,” *Nano Convergence* **3**, 6 (2016).

Selected Presentations

- E. A. Rensmo, S. D. Joffre, and J. R. Hampton, “Electrogenerated Hexacyanoferrate Thin Films for Battery Applications,” American Physical Society March Meeting, Boston, MA (March 4, 2019), contributed talk.
- J. R. Hampton, “Nickel Hexacyanoferrate: A New Battery Material,” West Michigan Nanoscience and Quantum Technology Conference, Grand Valley State University, Grand Rapids, MI (July 25, 2018), invited talk.
- S. D. Joffre, A. Rensmo, and J. R. Hampton, “Characterization of electrogenerated hexacyanoferrate thin films for battery applications,” American Chemical Society National Meeting, New Orleans, LA (March 19, 2018), contributed talk.
- B. Peecher and J. Hampton, “Dealloying Behavior of NiCo and NiCoCu Thin Films,” American Physical Society March Meeting, New Orleans, LA (March 2017), contributed talk.

Professional Activities

- Member of: American Physical Society, American Chemical Society, Electrochemical Society, Council on Undergraduate Research, American Association of Physics Teachers, American Scientific Affiliation
- Reviewer for: ACS Nano, Applied Sciences, Batteries, Electrochem, Energies, Journal of Electroanalytical Chemistry, Journal of Materials Engineering and Performance, Journal of Physical Chemistry B, Journal of Vacuum Science & Technology A, Langmuir, Metals, Materials, Nano Letters, Nanomaterials, Nanoscale, Polymers, Scanning, Thin Solid Films, NSF
- Guest Editor for Metals special issue “Metals and Alloys for Energy Conversion and Storage Applications”, 2018 – 2019

Recent College and Committee Service

Health Professions Advisory Committee, Hope College	2010 – 2013, 2016 – present
Secretary, Phi Beta Kappa, Hope College	2013 – 2014, 2016 – present
Academic Computing Committee, Hope College	2019 – 2020
Director, Physics Summer Research Program, Hope College	2009 – 2013, 2015 – 2019
Library Committee, Hope College	2011 – 2014, 2018 – 2019
Boerigter Task Force, Hope College	2016 – 2017
NetVUE Vocational Exploration Project Planning Team, Hope College	2016 – 2017
President’s Advisory Committee, Hope College	2015 – 2017