

# *CURRICULUM VITAE*

## **GUY L. HOVIS**

*John H. Markle Professor Emeritus of Geology  
Lafayette College*

### **CONTACT INFORMATION**

Address: Department of Geology & Environmental Geosciences  
Lafayette College, Easton, PA 18042

E-mail: hovisguy@lafayette.edu

### **EDUCATION**

Harvard University, Ph.D. (1971) and M.A. (1967), Geology

The Johns Hopkins University (1964-65), Geology

Franklin and Marshall College, A.B. (1964), Geology

### **PROFESSIONAL POSITIONS**

Lafayette College

John H. Markle Professor Emeritus of Geology, 2015-present

John H. Markle Professor of Geology, 1991-2014

Professor of Geology, 1984-2014

Associate Professor of Geology, 1978-84

Assistant Professor of Geology, 1974-78

U.S. National Science Foundation

Program Director, Petrology and Geochemistry Program, 1990-92

Salem State College (Massachusetts)

Assistant Professor of Earth Sciences, 1972-74

Harvard University

Research Fellow, 1971-72

### **PROFESSIONAL AFFILIATIONS, PAST AND PRESENT**

American Association for the Advancement of Science

American Association of University Professors

American Geophysical Union (Life Member)

Calorimetry Conference

Council on Undergraduate Research

Geological Society of America

Geological Society of Washington

Mineralogical Society of America (Life Member and Fellow)

The Mineralogical Society (UK)

Society of Sigma Xi

## **RESEARCH INTERESTS**

Thermodynamics of minerals, liquids (glasses), and mineralogical processes  
Hydrofluoric acid solution calorimetry  
Thermal expansion of minerals  
Phase equilibria

## **RESEARCH GRANTS**

Continuous grants 1976 to 2018 totaling \$1.6 million from the U.S. National Science Foundation for support of solution calorimetric and thermal expansion research

## **SUPERVISION OF LAFAYETTE COLLEGE STUDENTS: EXCEL, INDEPENDENT STUDY, AND THESIS RESEARCH**

### ***PRIOR TO 1995***

Lisa Goetz, Senior Thesis  
Hendrick van Oss, Senior Thesis  
Susan Bathke, Senior Thesis  
April Clare, Senior Thesis  
Eric Peckins, Summer research  
Douglas Bulfinch, Summer research  
Jason Kelsey, Summer Research  
David Albala, Independent Study  
Barry Starkman, Independent Study  
Vicki Crouse, Independent Study  
Andrea Dennison, Independent Study  
Margaret Roll (Bose), Summer research

### ***SINCE 1995 (reverse chronological order)***

Nicole Maksymiw '18, EXCEL (summer 2016), Thermal expansion of pyroxenes, one garnet, one amphibole  
Kevin Jackson '16, EXCEL (2015-16), Literature search on thermal expansion of select silicates  
Christine Almer '16, EXCEL (2015-16), Thermal expansion of pyroxenes and amphiboles  
Christine Almer '16, EXCEL (summer 2014), Thermal expansion of garnets, olivines, amphiboles  
Amanda Leaman '15, EXCEL (summer 2014), Thermal expansion of garnets, olivines, amphiboles  
Caitlin Altomare '14, Senior Thesis (2013-14), Thermal expansion of tourmaline group  
Matthew Morris '15, EXCEL (summer 2013), Thermal expansion of pyroxenes, tourmaline, apatite  
Amanda Leaman '15, EXCEL (summer 2013), Thermal expansion of pyroxenes, olivine, apatite

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Derek Morris '13, Senior Thesis / Independent Study (2012-13), Thermal expansion of pyroxenes

Caitlin Altomare '14, EXCEL (fall 2011), Thermal expansion of tourmaline and apatite

Brian Scott '12, EXCEL (fall 2011), Thermal expansion of tourmaline and apatite

Gary Tomaino '14, Summer 2011, Tourmaline high-temperature X-ray measurements

Caitlin Altomare '14, EXCEL (summer 2011), Thermal expansion of OH-F and Cl-F apatite

Brian Scott '12, EXCEL (summer 2011), Thermal expansion of OH-F and Cl-F apatite

Anthony Romanoski '10, Independent Study (fall 2009), Thermal expansion of feldspars

Allison Tether '10, Independent Study (fall 2009), Thermal expansion of feldspars

Aaron Medford '11, EXCEL (summer 2009), Thermal expansion of feldspars, research performed in part at Cambridge University

Maricate Conlon '11, EXCEL (summer 2009), Thermal expansion of feldspars, research performed in part at Cambridge University

William Hudacek '10, EXCEL (fall 2009), Thermal expansion of Cl-F apatite

Sarah Wildermuth '09, Summer research (2008), Thermal expansion of Cl-F apatite

Andrew Mott '07, Senior Thesis, Investigation of fluorite geochemistry

Andrew Mott '07, The nepheline-kalsilite solvus for intermediate excess silica contents

Joanna Morabito '08 (summer 2006) Thermal expansion of nepheline - kalsilite crystalline solutions having intermediate excess Si, research performed in part at Cambridge University

Andrew Mott '07 (summer 2006) Thermal expansion of Li, H, and NH<sub>4</sub> feldspar, research performed in part at Cambridge University

Andrew Mott '07, The nepheline-kalsilite solvus for intermediate excess silica contents

Erik Person '06, Senior Thesis, Investigation of volcanic rocks from the Rio Grande Rift

Amy Spooner '06, Thermal expansion of Si-rich feldspathoids, ammonium feldspar, and Rb feldspar, research performed in part at Cambridge University

Erik Person '06, Thermal expansion of Si-rich, feldspathoids, ammonium feldspar, and Rb feldspar, research performed in part at Cambridge University

Erik Person '06, Synthesis of ordered K-Rb feldspars

Erik Person '06, Senior thesis, Petrogenesis of recent volcanic rocks from the Rio Grande Rift

Erik Person '06, Relationships of thermodynamic data to the thermal expansion of minerals

Becky Dreibelbis '02, Thermal expansion of feldspathoids, research performed in part at Cambridge University

Robert Libutti '02, Synthesis of disordered K-Rb feldspars

David Wattles '00, Thermal expansion of feldspathoids, research performed in part at Cambridge University

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David Wattles '00, Synthesis of disordered K-Rb feldspars

Meghan Keohane '98, Thermal expansion of alkali feldspars, research performed in part at Cambridge University

James A. Crelling '97, Thermal expansion of alkali feldspars and feldspathoids, research performed in part at Cambridge University

James A. Crelling '97, Senior Thesis, Effect of excess Si on the nepheline-kalsilite solvus

Shannon Brennan '95, Senior Thesis, Thermal expansion of disordered alkali feldspars, research performed in part at Cambridge University

Shannon Brennan '95, Summer research (1994), Thermal expansion of disordered alkali feldspars, research performed in part at Cambridge University

***SELECTED HONORS (reverse chronological order)***

Member of a national Committee of Visitors to evaluate U.S. National Science Foundation's Earth Sciences Division, 2017

Member of a national Committee of Visitors to evaluate U.S. National Science Foundation's Earth Sciences Instrumentation and Facilities Program, 2013

Councilor, Mineralogical Society of America, 2010-13

Visiting Professor, Institute de Physique du Globe de Paris, Paris, France, fall, 2003

Awardee of the Mary Louise Van Artsdalen Prize for outstanding scholarly achievement, Lafayette College, 1998

Awarded Life Membership, Clare Hall, Cambridge University, England, 1998

Visiting Fellow, Clare Hall, Cambridge University, England, January - June, 1998

Thirty-second Inductee, William Penn Senior High School Hall of Fame, York, PA, 1995

Named Life Fellow, Mineralogical Society of America, 1991

Named John H. Markle Professor of Geology, Lafayette College, 1991 (Inaugural lecture: "Scientific Research and Science Policy in America: Two Different Worlds," 1993)

Invitation from the National Academy of Sciences of the Soviet Union to address symposium on "Thermodynamics in Geology" relative to research on the thermodynamic properties of minerals, Suzdal, USSR, 1985

Recipient of Thomas Roy and Lura Forrest Jones Award for superior teaching and contributions to one's discipline, Lafayette College, 1981

Recipient of Jones Faculty Lectureship, Lafayette College, 1979 (Lecture title: "Crystals: Geothermometers, Geobarometers, and Storehouses of Earth History")

Finalist among faculty in science and engineering for Student Government "Superior Teaching" Award, Lafayette College, several years

Lafayette College Summer Research Fellow, 1975

Harvard University Postdoctoral Research Fellow, 1971-72

National Science Foundation Graduate Fellow, 1964-67

### ***PRIMARY COURSES TAUGHT AT LAFAYETTE COLLEGE PRIOR TO RETIREMENT***

From Fire to Ice: An Introduction to Geology  
Earth and Planetary Materials (Mineralogy)  
Optical and X-ray Analysis of Minerals  
Igneous and Metamorphic Petrology  
Geochemistry  
Independent Study  
Thesis

### ***SELECTED SERVICE AND ADMINISTRATIVE ACTIVITIES***

Director and Principal Scientist, Solution Calorimetry Laboratory, Lafayette College, 1976-2016  
Department of Geology, Lafayette College  
Department Head, 1997-2000  
Acting Department Head: Academic year 1993-94; spring term 1981-82; fall term 1982-83  
Brown-bag Seminar Coordinator, multiple years  
Faculty and Other Lafayette College Committees  
Member of Faculty Retirement Committee (2016-2019)  
Member and officer of numerous other committees, Lafayette College, 1974-2014  
Contributor to study of the Lafayette College tenure system and co-author (with Provost Sarah Blanshei) of final report from the All-College Tenure Committee, 1985-86  
U.S. National Science Foundation  
Member of a national Committee of Visitors to evaluate U.S. National Science Foundation's Earth Sciences Division, 2017  
Member of a national Committee of Visitors to evaluate U.S. National Science Foundation's Earth Sciences Instrumentation and Facilities Program, 2013  
Program Director, Petrology and Geochemistry Program, Earth Sciences Division, 1990-92  
Mineralogical Society of America  
Councillor, 2010-2013  
Lecture Program Administrator, 1995-1999

### ***PUBLICATIONS: PLEASE SEE SEPARATE DOCUMENT***