

MATTHEW J. ELROD

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Oberlin College
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EDUCATION

Ph.D., Physical Chemistry, University of California, Berkeley, 1994
B.A. with Honors, Chemistry, Grinnell College, 1989

EXPERIENCE

Robert and Eleanor Biggs Professor of Natural Science, Oberlin College, 2014-present
Professor, Oberlin College, 2011-present
Associate Professor, Oberlin College, 2004-11
Chair, Department of Chemistry and Biochemistry, Oberlin College, 2007-10
Research Associate, University of Colorado, Boulder, 2004-5
Assistant Professor, Oberlin College, 2001-4
Assistant Professor, Hope College, 1996-2001
Postdoctoral Fellow, Massachusetts Institute of Technology, 1994-6

HONORS AND AWARDS

Excellence in Teaching Award, Oberlin College, 2016-7
Henry Dreyfus Teacher-Scholar Award, Camille and Henry Dreyfus Foundation, 2004-9
CAREER Award, National Science Foundation, 1999-2004
Regents Fellowship, University of California, Berkeley, 1992-3
U.S. Department of Education Graduate Fellowship, 1989-92
Chemistry Alumni Prize for Highest Scholarship, Grinnell College, 1989

RECENT EXTERNAL GRANT SUPPORT

National Science Foundation RUI Grant, "Epoxides from biogenic volatile organic compounds: gas phase formation and aerosol phase reactions," 2016-9, \$177,987.
National Science Foundation MRI Grant (co-PIs: Manish Mehta, Michael Moore, Aaron Goldman, and Robert Owen) "MRI: Acquisition of a high-performance computing cluster to enhance undergraduate research and education across the sciences at Oberlin College," 2014-8, \$486,256.
National Science Foundation RUI Grant, "Gas and aerosol phase chemistry of multi-generation isoprene oxidation products," 2012-17, \$355,090.
National Science Foundation RUI Grant, "Tropospheric ozone and aerosol precursors from the oxidation of aromatics," 2008-13, \$298,469.
National Science Foundation RUI Grant, "Overall rate constant and nitrate branching ratio measurements for the reactions of alkene-derived peroxy radicals with nitric oxide," 2004-8, \$187,442.
National Science Foundation MRI Grant (co-PIs: Manish Mehta, Dan Stinebring, and John Karro), "Acquisition of a beowulf cluster for use in research and teaching," 2004-8, \$308,909.

PROFESSIONAL AFFILIATIONS

American Chemical Society
American Geophysical Union

PEER REVIEWED PUBLICATIONS (underlined indicates undergraduate student coauthor)

- Watanabe A. C.; Stropoli S. J.; Elrod, M. J. Assessing the potential mechanisms of isomerization reactions of isoprene epoxydiols on secondary organic aerosol, *Environmental Science and Technology* **2018**, *52*, 8346-8354.
- Jiang, K.; Hill, D. R.; Elrod, M. J. Assessing the potential for oligomer formation from the reactions of lactones in secondary organic aerosols, *Journal of Physical Chemistry A* **2018**, *122*, 292-302.
- Cortés, D. A.; Elrod, M. J. Kinetics of the aqueous phase reactions of atmospherically relevant monoterpene epoxides. *Journal of Physical Chemistry A* **2017**, *121*, 9297-9305.
- Thomas, W. C.; Dresser W. D.; Cortés, D. A.; Elrod, M. J. Gas phase oxidation of campholenic aldehyde and solution phase reactivity of its epoxide derivative. *Journal of Physical Chemistry A* **2017**, *121*, 168-180.
- Stropoli, S. J.; Elrod, M. J. Assessing the potential for the reactions of epoxides with amines on secondary organic aerosol particles. *Journal of Physical Chemistry A* **2015**, *119*, 10181-10189.
- Mael, L.E.; Jacobs, M. I.; Elrod, M. J. Organosulfate and nitrate formation and reactivity from epoxides derived from 2-methyl-3-buten-2-ol. *Journal of Physical Chemistry A* **2015**, *119*, 4464-4472.
- Birdsall, A.W.; Miner, C.R.; Mael, L.E.; Elrod, M. J. Mechanistic study of secondary organic aerosol components formed from nucleophilic addition reactions of methacrylic acid epoxide, *Atmospheric Chemistry and Physics* **2014**, *14*, 12951-12964.
- Jacobs, M. I.; Burke, W. J.; Elrod, M. J. Kinetics of the reactions of isoprene-derived hydroxynitrates: gas phase epoxide formation and solution phase hydrolysis. *Atmospheric Chemistry and Physics* **2014**, *14*, 8933-8946.
- Jacobs, M. I.; Darer, A. I.; Elrod, M. J. Rate constants and products of the OH reaction with isoprene-derived epoxides. *Environmental Science and Technology* **2013**, *47*, 12686-12876.
- Bleier, D. B.; Elrod, M. J. Kinetics and thermodynamics of atmospherically relevant aqueous phase reactions of α -pinene oxide. *The Journal of Physical Chemistry A* **2013**, *117*, 4223-4232.
- Birdsall, A. W.; Zentner, C. A.; Elrod, M. J. Study of the kinetics and equilibria of the oligomerization reactions of 2-methylglyceric acid. *Atmospheric Chemistry and Physics* **2013**, *13*, 3097-3109.
- Elrod, M. J. Kinetics Study of the aromatic bicyclic peroxy radical + NO reaction: overall rate constant and nitrate product yield measurements. *The Journal of Physical Chemistry A* **2011**, *115*, 8125-8130.
- Hu, K. S.; Darer, A. I.; Elrod, M. J. Thermodynamics and kinetics of the hydrolysis of atmospherically relevant organonitrates and organosulfates. *Atmospheric Chemistry and Physics* **2011**, *11*, 8307-8320.
- Darer, A. I.; Cole-Filipiak, N. C.; O'Connor, A. E.; Elrod, M. J. Formation and stability of atmospherically relevant isoprene-derived organosulfates and organonitrates. *Environmental Science and Technology* **2011**, *45*, 1895-1902.
- Birdsall, A. W.; Elrod, M. J. Comprehensive NO-dependent study of the products of the oxidation of atmospherically relevant aromatic compounds. *Journal of Physical Chemistry A* **2011**, *115*, 5397-5407.
- Cole-Filipiak, N. C.; O'Connor, A. E.; Elrod, M. J. Kinetics of the hydrolysis of atmospherically relevant isoprene-derived hydroxy epoxides. *Environmental Science and Technology* **2010**, *44*, 6718-6723.

- Birdsall, A. W.; Andreoni, J. F.; Elrod, M. J. Investigation of the role of bicyclic peroxy radicals in the oxidation mechanism of toluene. *Journal of Physical Chemistry A* **2010**, *114*, 10655-10663.
- Minerath, E. C.; Elrod, M. J. Assessing the potential for diol and hydroxy sulfate ester formation from the reaction of epoxides in tropospheric aerosols. *Environmental Science and Technology* **2009**, *43*, 1386-1392.
- Minerath, E. C.; Schultz, M. P.; Elrod, Matthew J. Kinetics of the reactions of isoprene-derived epoxides in model tropospheric aerosol solutions. *Environmental Science and Technology* **2009**, *43*, 8133-8139.
- Baltaretu, C. O.; Lichtman, E. I.; Hadler, A. B.; Elrod, M. J. Primary atmospheric oxidation mechanism for toluene. *Journal of Physical Chemistry A* **2009**, *113*, 221-230.
- Minerath, E.C.; Casale, M.T.; Elrod, M.J. Kinetics feasibility study of alcohol sulfate esterification reactions in tropospheric aerosols. *Environmental Science and Technology* **2008**, *42*, 4410-4415.
- Patchen, A. K.; Pennino, M. J.; Kiep, Annastassia C.; Elrod, Matthew J. Direct kinetics study of the product-forming channels of the reaction of isoprene-derived hydroxyperoxy radicals with NO. *International Journal of Chemical Kinetics* **2007**, *39*, 353-361.
- Hsin, H.Y. ; Elrod, M.J. Overall rate constant measurements of the reaction of hydroxy- and chloroalkylperoxy radicals derived from methacrolein and methyl vinyl ketone with nitric oxide. *Journal of Physical Chemistry A* **2007**, *111*, 613-619.
- Casale, M.; Richman, A.; Elrod, M.; Garland, R.; Beaver, M.; Tolbert, M. Kinetics of acid-catalyzed aldol condensation reactions of aliphatic aldehydes. *Atmospheric Environment* **2007**, *41*, 6212-6224.
- Garland, R.; Elrod, M.; Kincaid, K.; Beaver, M.; Jimenez, J.; Tolbert, M. Acid-catalyzed reactions of hexanal on sulfuric acid particles: Identification of reaction products. *Atmospheric Environment* **2006**, *40*, 6863-6878.
- Beaver, M.R.; Elrod, M.J.; Garland, R.M.; Tolbert, M.A. Ice nucleation in sulfuric acid/organic aerosols: implications for cirrus cloud formation. *Atmospheric Chemistry and Physics* **2006**, *6*, 3231-3242.
- Yeung, L.Y. ; Pennino, M.J. ; Miller, A.M. ; Elrod, M.J. Kinetics and mechanistic studies of the atmospheric oxidation of alkynes. *Journal of Physical Chemistry A* **2005**, *109*, 1879-1889.
- Patchen, A.K.; Pennino, M.J.; Elrod, M.J. Overall rate constant measurements of the reaction of chloroalkylperoxy radicals with nitric oxide. *Journal of Physical Chemistry A* **2005**, *109*, 5865-5871.
- Miller, A. M.; Yeung, L. Y.; Kiep, A. C.; Elrod, Matthew J. Overall rate constant measurements of the reactions of alkene-derived hydroxyalkylperoxy radicals with nitric oxide. *Physical Chemistry Chemical Physics* **2004**, *6*, 3402-3407.
- Yeung, L.Y.; Elrod, M.J. Experimental and computational study of the kinetics of the OH + pyridine and its methyl- and ethyl-substituted derivatives. *Journal of Physical Chemistry A* **2003**, *107*, 4470-4477.
- Elrod, M.J. A comprehensive computational investigation of the enthalpies of formation and proton affinities of C₄H₇N and C₃H₃ON compounds. *International Journal of Mass Spectrometry* **2003**, *228*, 91-105.
- Chow, J.M.; Miller, A.M.; Elrod, M.J. Kinetics of the C₃H₇O₂ + NO reaction: temperature dependence of the overall rate constant and the i-C₃H₇ONO₂ branching channel. *Journal of Physical Chemistry A* **2003**, *107*, 3040-3047.
- Elrod, M. J.; Ranschaert, D. L.; Schneider, N. J. Direct kinetics study of the temperature dependence of the CH₂O branching channel for the CH₃O₂ + HO₂ reaction. *International Journal of Chemical Kinetics* **2001**, *33*, 363-376.

- Cappa, C.D.; Elrod, M.J. A computational investigation of the electron affinity of CO_3 and the thermodynamic feasibility of $\text{CO}_3^-(\text{H}_2\text{O})_n + \text{ROOH}$ reactions. *Physical Chemistry Chemical Physics* **2001**, 3, 2986-2994.
- Ranschaert, D.L.; Schneider, N.J.; Elrod, M.J. Kinetics of the $\text{C}_2\text{H}_5\text{O}_2 + \text{NO}_x$ reactions: temperature dependence of the overall rate constant and the $\text{C}_2\text{H}_5\text{ONO}_2$ Branching Channel of $\text{C}_2\text{H}_5\text{O}_2 + \text{NO}$. *Journal of Physical Chemistry A* **2000**, 104, 5758-5765.
- Messer, B.M.; Stielstra, D.E.; Cappa, C.D.; Scholtens, K.W.; Elrod, M.J. Computational and experimental studies of chemical ionization mass spectrometric detection techniques for atmospherically relevant peroxides. *International Journal of Mass Spectrometry* **2000**, 197, 219-235.
- Cappa, C.D.; Kuipers, S.E.; Roberts, J.M.; Gilbert, A.S.; Elrod, M.J. Product identification and kinetics of reactions of HCl with $\text{HNO}_3/\text{H}_2\text{SO}_4/\text{H}_2\text{O}$ solutions. *Journal of Physical Chemistry A* **2000**, 104, 4449-4457.
- Scholtens, K.W.; Messer, B.M.; Cappa, C.D.; Elrod, M.J. Kinetics of the $\text{CH}_3\text{O}_2 + \text{NO}$ reaction: temperature dependence of the overall rate constant and an improved upper limit for the CH_3ONO_2 branching channel. *Journal of Physical Chemistry A* **1999**, 103, 4378-4384.
- Messer, B.M.; Elrod, M.J. A theoretical study of ROX ($\text{R} = \text{H}, \text{CH}_3$; $\text{X} = \text{F}, \text{Cl}, \text{Br}$) enthalpies of formation, ionization potentials and fluoride affinities. *Chemical Physics Letters* **1999**, 301, 10-18.
- Elrod, M.J. Greenhouse warming potentials from the infrared spectroscopy of atmospheric gases. *J. Chem. Ed.* **1999**, 76, 1702-1705.
- Lipson, J.B.; Elrod, M.J.; Beiderhase, T.W.; Molina, L.T.; Molina, M.J. Temperature dependence of the rate constant and branching ratio for the $\text{OH} + \text{ClO}$ reaction. *Journal of the Chemical Society, Faraday Transactions* **1997**, 93, 2665-2673.
- Leforestier, C.; Braly, L. B.; Kun, L.; Elrod, M. J.; Saykally, R. J. Fully coupled six-dimensional calculations of the water dimer vibration-rotation-tunneling states. *Journal of Chemical Physics* **1997**, 106, 8527-8544.
- Seeley, J. V.; Meads, R. F.; Elrod, M. J.; Molina, M. J. Temperature and pressure dependence of the rate constant for the $\text{HO}_2 + \text{NO}$ reaction. *The Journal of Physical Chemistry* **1996**, 100, 4026-4031.
- Elrod, M. J.; Meads, R. F.; Lipson, J. B.; Seeley, J. V.; Molina, M. J. Temperature dependence of the rate constant for the $\text{HO}_2 + \text{BrO}$ reaction. *The Journal of Physical Chemistry* **1996**, 100, 5808-5812.
- Elrod, M.J.; Koch, R.E.; Kim, J.E.; Molina, M.J. HCl vapor pressures and reaction probabilities for $\text{ClONO}_2 + \text{HCl}$ on liquid $\text{H}_2\text{SO}_4/\text{HNO}_3/\text{H}_2\text{O}$ solutions. *Discussions of the Faraday Society* **1995**, 99, 269-278.
- Elrod, M. J.; Saykally, R. J. Determination of the intermolecular potential energy surface for $(\text{HCl})_2$ from vibration-rotation-tunneling spectra. *Journal of Chemical Physics* **1995**, 103, 933-949.
- Elrod, M. J.; Saykally, R. J. Vibration-rotation-tunneling dynamics calculations for the four-dimensional $(\text{HCl})_2$ system: A test of approximate models. *Journal of Chemical Physics* **1995**, 103, 921-932.
- Liu, K.; Elrod, M.J.; Loeser, J. G.; Cruzan, J. D.; Rzepiela, J.A.; Pugliano, N.; Saykally, R. J. Far infrared vibration-rotation-tunneling spectroscopy of the water trimer. *Discussions of the Faraday Society* **1994**, 97, 35-41.
- Liu, Kun; Loeser, J. G.; Elrod, M. J.; Host, B. C.; Rzepiela, J. A.; Pugliano, N.; Saykally, R. J. Dynamics of structural rearrangements in the water trimer. *Journal of the American Chemical Society* **1994**, 116, 3507-3512.
- Elrod, M.J.; Saykally, R. J.; Cooper, A. R.; Hutson, J. M. Non-additive intermolecular forces from the spectroscopy of van der Waals trimers: far infrared spectra and calculations on Ar_2DCI . *Molecular Physics* **1994**, 81, 579-598.

- Elrod, M. J.; Saykally, R. J. Many-body effects in intermolecular forces. *Chemical Reviews* **1994**, *94*, 1975-1997.
- Dore, L.; Cohen, R. C.; Schmuttenmaer, C. A.; Busarow, K. L.; Elrod, M. J.; Loeser, J. G.; Saykally, R. J. Far infrared vibration-rotation-tunneling spectroscopy and internal dynamics of methane-water: A prototypical hydrophobic system. *Journal of Chemical Physics* **1994**, *100*, 863-876.
- Steyert, D. W.; Elrod, M. J.; Saykally, R. J. Far-infrared laser vibration-rotation-tunneling spectroscopy of the propane-water complex: Torsional dynamics of the hydrogen bond. *Journal of Chemical Physics* **1993**, *99*, 7431-7439.
- Steyert, D. W.; Elrod, M. J.; Saykally, R. J.; Lovas, F. J.; Suenram, R. D. Fourier transform microwave spectrum of the propane-water complex: A prototypical water-hydrophobe system. *Journal of Chemical Physics* **1993**, *99*, 7424-7430.
- Cooksy, A. L.; Elrod, M. J.; Saykally, R. J.; Klemperer, W. Dipole moment analysis of excited van der Waals vibrational states of ArH³⁵Cl. *Journal of Chemical Physics* **1993**, *99*, 3200-3204.
- Elrod, M. J.; Loeser, J. G.; Saykally, R. J. An investigation of three-body effects in intermolecular forces. III. Far infrared laser vibration-rotation-tunneling spectroscopy of the lowest internal rotor states of Ar₂HCl. *Journal of Chemical Physics* **1993**, *98*, 5352-5361.
- Elrod, M. J.; Host, B. C.; Steyert, D. W.; Saykally, R. J. Far infrared vibration-rotation-tunneling spectroscopy of ArDCI: a critical test of the H₆(4,3,0) potential surface. *Molecular Physics* **1993**, *79*, 245-251.
- Loeser, J. G.; Schmuttenmaer, C. A.; Cohen, R. C.; Elrod, M. J.; Steyert, D. W.; Saykally, R. J.; Bumgarner, R. E.; Blake, G. A. Multidimensional hydrogen tunneling dynamics in the ground vibrational state of the ammonia dimer. *Journal of Chemical Physics* **1992**, *97*, 4727-4749.
- Elrod, M. J.; Steyert, D. W.; Saykally, R. J. An investigation of three-body effects in intermolecular forces. II. Far-infrared vibration-rotation-tunneling laser spectroscopy of Ar₂HCl. *Journal of Chemical Physics* **1991**, *95*, 3182-3190.
- Elrod, M. J.; Steyert, D. W.; Saykally, R. J. Tunable far infrared laser spectroscopy of a ternary van der Waals cluster Ar₂HCl: A sensitive probe of three-body forces. *Journal of Chemical Physics* **1991**, *94*, 58-66.

BOOK REVIEWS

- Elrod, M. J. Review of "An Introduction to Chemical Kinetics" by M.R. Wright. *Journal of Chemical Education* **2005**, *82*, 40-41.
- Elrod, M. J. A Review of "Survival Guide for Physical Chemistry" by M. Francl. *Journal of Chemical Education* **2002**, *79*, 1074-1075.

RECENT PRESENTATIONS

- "Chemical Mechanism Development for the Formation of Secondary Organic Aerosol Components," Atmospheric and Environmental Chemistry Seminar, Harvard University, Cambridge, Massachusetts, March 2018.
- "To React or Not To React: Classifying Atmospheric Compounds as Air Pollutants and Greenhouse Gases," Physics and Astronomy Seminar, Oberlin College, Oberlin, Ohio, December 2016.
- "Structure-Reactivity Analyses for Epoxide, Organosulfate, and Organonitrate Reactions Relevant to Secondary Organic Aerosol Composition," National American Meteorological Society Conference, New Orleans, Louisiana, January 2016.

PROFESSIONAL SERVICE

Reviewer for *Proceedings of the National Academy of Sciences*
Reviewer for *Geophysical Research Letters*
Reviewer for *Atmospheric Environment*
Reviewer for *Atmospheric Chemistry and Physics*
Reviewer for *Journal of Physical Chemistry A*
Reviewer for *Environmental Science and Technology*
Reviewer for *International Journal of Chemical Kinetics*
Reviewer for *Journal of Chemical Education*
Reviewer for the NSF Atmospheric Chemistry Program
Reviewer for the NSF Chemistry Program
Reviewer for the NSF Global Scientists and Engineers Program
Reviewer for the ACS/PRF Program
Reviewer for the Research Corporation Program
Reviewer for the Department of Energy Atmospheric Science Program
Reviewer for the North Carolina Per- and Polyfluoroalkyl Substance Testing Network
Reviewer for the Merck/AAAS Undergraduate Science Research Program

CONSULTING

U.S. Environmental Protection Agency, Greenhouse Gas Screening Project
College Board, Chemistry Advanced Placement Exam Review Board
Chemistry Program Reviewer for Peer Institutions

UNDERGRADUATE RESEARCH STUDENTS MENTORED

Daniel Hill, Oberlin '21
Angel Nuñez, Oberlin '19
William Dresser, Oberlin '19
Kallie Jiang, Oberlin '19
Diego Cortés, Oberlin '18
Arden Hammer Oberlin '18
Santino Stropoli, Oberlin '18 – graduate student – Yale University
Galen Brennan, Oberlin '17
Corina Miner, Oberlin '16 – software engineer - Intentionet
Liora Mael, Oberlin '16 – graduate student – University of California, San Diego
William Thomas, Oberlin '15- graduate student – Princeton University
William Banfield, Oberlin '15 – software engineer - MongoDB
Dylan Bleier, Oberlin '15 – graduate student – University of Wisconsin, Madison
William Burke, Oberlin '15
Michael Jacobs, Oberlin '14 – graduate student – University of California, Berkeley
Alex Watanabe, Oberlin '14 – programmer – University of Hawaii
Adam Birdsall, Oberlin '13 – graduate student – Harvard University
Cassandra Zentner, Oberlin '13 – graduate student – Massachusetts Institute of Technology
Adam Darer, Oberlin '12 – graduate student – Virginia Institute of Marine Science
Alison O'Connor, Oberlin '12 – Ph.D. 2017, Virginia Institute of Marine Science; consultant- Ramboll
John Andreoni, Oberlin '11 – graduate student – University of Michigan, Ann Arbor
Kevin Hu, Oberlin '11 – M.D. 2016, Mt. Sinai; physician - Mt. Sinai
Madeline Schultz, Oberlin '10 – M.Ed. 2012, John Carroll University; chemistry teacher – Reynoldsburg City Schools
Neil Cole-Filipiak, Oberlin '10 - Ph.D. 2015, University of California, Berkeley; postdoc – University of Warwick
Hong Yuan Hsin, Oberlin '09 - D.M.D. 2016, University of Pittsburgh; dentist – Columbia

Valley Community Health Center
Emily Minerath, Oberlin '09 – M.L.S. 2013, University of Wisconsin, Madison
Erika Rohrs, Oberlin '09
Benjamin Baldwin, Oberlin '09 – M.S. 2016, Tufts University; project manager – Dudley
Street Neighborhood Initiative
Amelia Hadler, Oberlin, '08 – Ph.D., 2014, University of Wisconsin, Madison; scientist –
Lubrizol
Mia Casale, Oberlin '07 – M.P.H., 2012, University of Michigan; analyst –
Ann and Robert Lurie Children's Hospital
Eben Lichtman, Oberlin '07 – M.D., 2012, University of Massachusetts; fellow –
University of North Carolina Health Care
Amie Patchen, Oberlin '06 – graduate student – Boston College
Cristian Baltaretu, Oberlin '06 – graduate student – University of Illinois
Aviva Richman, Oberlin '06 – graduate student – New York University
Michael Pennino, Oberlin '05 – Ph.D., 2014, University of Maryland; ecologist – U.S.
Environmental Protection Agency
Andrew Huisman, Hope '04 – Ph.D., 2010, University of Wisconsin, Madison; faculty –
Union College
Brian Raver, Hope '04
Angela Miller, Oberlin '04 – chemist – The Ohio State University
Laurence Yeung, Oberlin, '04 – Ph.D, 2009, California Institute of Technology; faculty –
Rice University
Annastassja Kiep, Oberlin '04 – scientist - Shaw Environmental
Jason Criscione, Oberlin '03 – Ph.D. 2012, Yale University - scientist – 1366
Technologies
Matthew Stavis, Oberlin '02 – M.S., 2006, University of California, Berkeley; faculty –
Laney College
Jessica Chow, Oberlin '02 – Ph.D. 2010, The Julliard School; musician
Dana Ranschaert, Hope '02 – M.S. 2005, College of William and Mary; actuary
Nicholas Schneider, Hope '02 – M.D. 2006 – Michigan State University; physician
Mari Titcombe, Hope '02 – Ph.D. 2012, University of Minnesota; scientist – U.S.
Environmental Protection Agency
Christopher Cappa, Hope '00 - Ph.D. 2005, University of California, Berkeley; faculty –
University of California, Davis
Kurtis Scholtens, Hope '00 – M.B.A. Central Michigan University - sales manager –
Webb Chemical
David Stielstra, Hope '00 – director of technical solutions – The C2 Group
Benjamin Messer, Hope '99 - Ph.D. 2006, University of California, Berkeley; postdoc –
University of Southern California
Sarah Kuipers, Hope '99 – scientist – Pfizer
Jeanine Roberts, Hope '99