

Michael E. Wyession
Curriculum Vitae
September, 2018

PRESENT POSITION:

Department of Earth and Planetary Sciences
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DATE OF BIRTH December 6, 1961
CITIZENSHIP USA
PLACE OF BIRTH Jersey City, New Jersey

EDUCATION:

Ph.D. (Geophysics), Northwestern University, 1991
Sc.B. (Geophysics), Brown University, 1984

ACADEMIC DISTINCTIONS:

Frank Press Public Service Award, Seismological Society of America, 2016.
Northwestern University Distinguished Alumni Award, 2015.
American Geophysical Union Ambassador Award (Inaugural), 2014.
American Geophysical Union Fellow, 2014.
Missouri Teachers Association Service Award, 2012.
NAGT Distinguished Lectureship, 2009.
IRIS and SSA Distinguished Lectureship, 2005.
Distinguished Faculty Award, Washington University, 2000.
Innovation Award of the St. Louis Science Academy, 1999.
Washington University's First Residential College Faculty Fellow, 1998-2001.
NSF Presidential Faculty Fellowship (PECASE), 1997-2002.
Lilly Foundation Teaching Fellowship, 1995.
Kemper Foundation Faculty Award to Improve Learning, 1993, 1999.
Packard Foundation Fellowship for Science and Engineering, 1992-1997.
AAAS Mass Media Science and Engineering Fellowship, 1988.
President's Fellowship, Northwestern University, 1986.

PROFESSIONAL EXPERIENCE:

Executive Director of the Teaching Center, Washington University, 2018 – present.
Professor, Washington University, 2015 – present.
Associate Professor, Washington University, 1997 - 2015.
Assistant Professor, Washington University, 1991- 1997.
Faculty Member (part-time), University College, Northwestern University, 1989-1991.

Graduate Assistant, Northwestern University, 1986-1991.
 High School Math and Physics Teacher, Staten Island (N.Y.) Academy, 1984-1986.

PROFESSIONAL SOCIETIES:

American Association for the Advancement of Science
 American Geophysical Union
 Geological Society of America
 Incorporated Research Institutions for Seismology
 National Association of Geoscience Teachers
 Seismological Society of America
 Sigma Xi

RESEARCH INTERESTS: Earthquake seismology, earth structure, mantle-core dynamics, intraplate seismicity, geophysical education, science literacy, pedagogy.

PROFESSIONAL ACTIVITIES:

IRIS - Incorporated Research Institutions for Seismology:

Editor of EPO educational animations, 2017
 Nominations Committee, 2016
 Board of Directors (Secretary), 2013-2015.
 Budget and Finance Committee, 2013 – 2015 (Chair, 2015)
 Chair, Nominations Committee, 2015.
 Chair, Education and Outreach Committee, 2005-2010.
 Meetings and Publications Committee, 2005-2010.
 Membership Committee, 2005-2010.
 Planning Committee, 2003-2005.
 Elections Committee, 2003-2004.
 Legal Affairs Committee, 2004.
 Secretary, Executive Committee, 1998-2001.
 Global Seismic Network Committee, 1998.
 Co-Organizer, IRIS Annual Workshop, Hawaii, June, 2002.
 Co-Facilitator of IRIS Annual Workshop, Yosemite, CA, May, 1999.

EarthScope:

Education and Outreach Committee, 2012-2015.
 Coauthor, *EarthScope Science Plan for 2010-2020*, 2010.
 Deep Earth Structure working group, 2008-2010.
 Co-Facilitator of NSF EarthScope Workshop, Snowbird, Utah, October, 2001.

LRSPS – Long Range Science Plan for Seismology:

Coauthor, *Seismological Grand Challenges in Understanding Earth's Dynamic Systems*, 2009.

CIG - Computational Infrastructure for Geodynamics:

Seismology Working Group, 2005-present.
 Co-Organizer, CIG/SPICE Workshop, Jackson, NH, Oct., 2007.

Host, Workshop on CIG/EarthScope Seismic Imaging (70 people), Washington University, St. Louis, Oct 31-Nov 2, 2006.

Steering Committee and co-originator, 2003-2004.

ESLI – Earth Science Literacy Initiative:

Chair, 2008-present.

Online workshop organizer, May, 2008.

Writing workshop organizer, July, 2008.

NAS - National Academy of Science:

NRC (National Research Council) National Science Education Framework Committee,

Leader of Earth & Space Design Team, 2010 – 2011.

COSG –Committee on Seismology and Geodynamics, Vice-Chair, 2007-2012.

Achieve, Inc.: Co-leader for Earth and Space Science for the writing of the national K-12 *Next Generation Science Standards*, 2010 - 2013.

RIDGE: Education and Outreach Committee, RIDGE 2000, 2006-2010.

Consultant, GLOBE proposal for RIDGE 2000 E&O, 2006-2010.

NSF – National Science Foundation:

Integrated Earth Science panel, 2015.

Cooperative Studies of the Earth's Deep Interior panel, 2015.

Mathematics-Geophysics panel, 2005 and 2007.

COMPRES panel, 2002.

AGU – American Geophysical Union:

Editor, *Geophysical Research Letters*, 2009-2015.

Co-organizer of AGU meeting session on Geoscience literacy and education, Fall, 2008, 2011, 2012, 2013, 2014(2), 2015, 2016.

Studies of the Earth's Deep Interior Committee (SEDI), 1994-1998 (Chair, 1996-1998).

Co-editor, *The Core Mantle Boundary Region*, AGU Monograph, 1998.

Seismology Editor, *Eos*, AGU, 1998-1999.

Associate Editor, *Journal of Geophysical Research*, AGU, 1994-1996.

Associate Editor, *Computational Seismology*, AGU, 1992-1994.

Co-organizer of AGU meeting session on Water in the Deep Mantle, Fall, 2005.

Organizer of AGU meeting session on the Core-Mantle Boundary, Fall, 2000; Fall, 1998; Fall, 1996.

NASA – National Air and Space Administration:

Designer and instructor of geology training course for NASA engineers (presented at different NASA centers), 2009 - present.

OTCE – On The Cutting Edge: A Community Resource Transforming Geoscience Education:

Co-PI, 2010 - present.

Organizer, 6-week online seismology workshop, *Student-Learning About Critical Earth Issues Through the Use of Large Online Digital Data Sets*, 6-week online virtual workshop May-June, 2015.

Co-organizer, Workshop on *Undergraduate Research in Earth Science Classes: Engaging Students in the First Two Years*, Bozeman, MT, August, 2014.

Co-organizer, Workshop for Early Career Geoscience Faculty, Washington, DC, July, 2013.

Organizer, 6-week online seismology workshop, *Tomograms for Research and Teaching, February-March*, 2013.

Co-organizer, Workshop on *Structure, Tectonics, and Geophysics*, Knoxville, TN, July, 2012.

Organizer, Online Geophysics Workshop, June, 2012.

Co-organizer, Workshop for Early Career Geoscience Faculty, Williamsburg, VA, June, 2011.

Co-organizer, *Visualizing Seismic Waves for Research and Teaching*, 6-week online virtual workshop, February-March, 2011.

Co-organizer, *Teaching Geophysics in the 21st Century Workshop*, Jackson Hole, WY, August, 2007.

NAGT – National Association of Geoscience Teachers:

Advisory Board, Position statement on Climate Change, 2017.

Advisory Board, Building Strong Geoscience Departments, 2007-2015.

AGI – American Geosciences Institute:

Next Generation Science Standards Earth & Space Science Advisory Board, 2015-present.

OOI – Ocean Observatories Initiative:

Program Advisory Committee, 2008-2009.

SSA – Seismological Society of America:

Organizer of meeting session on educational seismology, Apr, 2008.

GSA – Geological Society of America:

Organizer of annual national meeting session: Oct, 2009; Nov, 2015; Sep, 2016; Oct, 2017.

Pearson (Prentice Hall) Education:

Co-author, National K-8 *Elevate Science* Program and high school physics, chemistry, and Earth & space science textbook programs, 2013-present.

Co-author, National K-8 *Interactive Science* Program, 2008-present.

Consultant for and author of secondary educational science textbooks, 2001-present.

Consultant for middle school curriculum development, 2006–present.

Professional development for high school science teachers, 2003–present.

The Teaching Company:

Author and lecturer for video course (24 half-hour lectures) on *The Science of Energy: Power and Resources Explained*, 2016.

Coauthor and co-lecturer for video course (24 half-hour lectures) on *National Geographic Destinations: Polar Explorations*, 2014.

Author and lecturer for video course (36 half-hour lectures) on *The World's Greatest Geologic Wonders*, 2013.

Author and lecturer for video course (48 half-hour lectures) on *How the Earth Works*, 2008.

Other Professional Activities:

Consultant and interviewee for "Ripple Effect," a 30-minute documentary on water resources by Newsy studios, 2017.

Consultant and co-host of "Journey to the Earth's Core," a television series produced by Wall-to-Wall Media for the History Channel, March, 2011.

Consultant to PBS for Earth science-related video products, 2009.

Board of Advisors, Earth and Planetary Science Letters, 2001-2007.

Contributor to the "Glossary of Geology," published by the American Geological Institute, 2003.

Consultant for Earth Science Museum Exhibits (Smithsonian Institution Natural History Museum, American Museum of Natural History (New York), National Geographic).

Peer reviewer of articles for *Nature*, *Science*, *Journal of Geophysical Research*, *Geology*, *Geophysical Research Letters*, *Pure and Applied Geophysics*, *Physics of the Earth and Planetary Interiors*, *Earth and Planetary Science Letters*, *Geophysical Journal International*, *GSAToday*, *EOS*, *Journal of Geoscience Education*, and other journals, as well as proposals for the National Science Foundation.

INVITED LECTURES AND PRESENTATIONS (Since 2005):

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| January, 2005 | Washington University, Univ. Management Team Meeting |
| February, 2005 | New Mexico Museum of Science and Natural History, Albuquerque, NM |
| February, 2005 | Washington University, EPSc Brownbag |
| March, 2005 | UC Berkeley, Berkeley, CA |
| March, 2005 | St. Louis Public Library, Creve Couer, MO |
| March/Apr, 2005 | National Science Teachers Association (NSTA) Conference, Dallas, TX (2 lectures) |
| April, 2005 | Trinity Presbyterian Church, University City, MO |
| April, 2005 | Washington University Alumni Dinner, New York, NY |
| May, 2005 | Smithsonian Institution, Washington, DC |
| May, 2005 | Maryland Museum of Science, Baltimore, MD |
| May, 2005 | Washington University, Graduation Weekend Alumni Lecture |
| June, 2005 | Houston Science Museum, Houston, TX |
| June, 2005 | Houston Washington U Alumni Association, The Houstonian, Houston, TX |
| June, 2005 | Department of Earth Science, Rice University, Houston, TX |
| June, 2005 | American Museum of Natural History, New York, NY |
| July, 2005 | Washington University, STARS Student Scholar Research Program |
| July, 2005 | Field Museum, Chicago, IL |

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| September, 2005 | Arizona Museum of Science, Phoenix, AZ |
| September, 2005 | Science-On-Tap, St. Louis, MO |
| October, 2005 | Washington University Alumni & Development, Public Affairs, and Undergraduate Admission Luncheon, St. Louis, MO |
| October, 2005 | Washington University Alumni Club of St. Louis, St. Louis, MO |
| October, 2005 | St. Louis Science Center, St. Louis, MO |
| October, 2005 | National Science Teachers Assoc. (NSTA) Conference, Hartford, CT |
| October, 2005 | IACA (International Advisory Council on Asia), Shanghai, China |
| October, 2005 | Peking University, Dept. of Geophysics, Beijing, China |
| November, 2005 | New York Science Teachers Conference, Ellenville, NY |
| November, 2005 | National Science Teachers Assoc. (NSTA) Conference, Chicago, IL |
| November, 2005 | Denver Museum of Nature and Science, Denver, CO |
| November, 2005 | Washington University, Lifelong Learning Institute |
| November, 2005 | National Science Teachers Assoc. (NSTA) Conference, Nashville, TN |
| January, 2006 | Yale University, Dept Geology and Geophysics, New Haven, CT |
| February, 2006 | SUNY Stony Brook, Dept of Geosciences, Stony Brook, NY |
| April, 2006 | National Science Teachers Assoc. (NSTA) Conference, Anaheim, CA |
| May, 2006 | Washington University, Graduation Weekend Alumni Lecture |
| June, 2006 | The Teaching Company, Chantilly, VA |
| July, 2006 | Washington University, Regional Secretary Board Meeting |
| August, 2006 | Institute for Religion in an Age of Science, Star Island, New Hampshire |
| September, 2006 | University of Minnesota, Department of Geology and Geophysics, Minneapolis, MN |
| October, 2006 | St. Louis Science Center, St. Louis, MO |
| October, 2006 | Washington University, Eliot Society |
| October, 2006 | California Science Teachers Association (CSTA) Conference, San Francisco, CA |
| October, 2006 | IRIS Seismology Workshop, Geological Society of America Annual Meeting, Philadelphia, PA |
| November, 2006 | National Science Teachers Assoc. (NSTA) Conference, Baltimore, MD |
| December, 2006 | National Science Teachers Assoc. (NSTA) Conference, Salt Lake City, UT |
| March, 2007 | National Science Teachers Assoc. (NSTA) Conference, St. Louis, MO (5 lectures: NESTA, EarthScope, IRIS (2), Prentice Hall) |
| April, 2007 | St. Louis City High School Science Teachers Professional Development |
| May, 2007 | Washington University, Reunion College |
| August, 2007 | COMPRES sponsored VLAB (Virtual Laboratory for Earth and Planetary Materials) Conference, Univ. Minnesota, Minneapolis, MN |
| August, 2007 | Teaching Geophysics Workshop, On the Cutting Edge, Jackson Hole, WY |
| September, 2007 | Keynote Address, Society of Exploration Geophysics, San Antonio, TX |
| October, 2007 | National Science Teachers Assoc. (NSTA) Conference, Detroit, MI |

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| November, 2007 | Washington Alumni Canary Islands Cruise (3 lectures). |
| December, 2007 | National Science Teachers Assoc. (NSTA) Conference, Birmingham, AL |
| March, 2008 | National Science Teachers Assoc. (NSTA) Conference, Boston, MA |
| April, 2008 | Maryland High School Science Teachers Professional Development, Greenbelt, MD |
| April, 2008 | Linda Hall Science Library Endowed Lecture, Kansas City, KS |
| June, 2008 | Missouri Scholars Program, Columbia, MO |
| August, 2008 | Smithsonian lectures on Art&Science (4 lectures jointly with art historian Mariana Carpinisan), Washington, DC |
| September, 2008 | Coalition for Earth Science Education (CESE) Conference, Ithaca, NY |
| September, 2008 | Tennessee High School Science Teachers Professional Development, Memphis, TN |
| October, 2008 | Science Café Lecture, St. Louis Science Center Program, Maplewood, MO |
| October, 2008 | Washington University, Parents' Council Meeting Keynote Address |
| October, 2008 | National Science Teachers Assoc. (NSTA) Conference, Charlotte, NC |
| November, 2008 | National Science Teachers Assoc. (NSTA) Conference, Portland, OR |
| November, 2008 | National Science Teachers Assoc. (NSTA) Conference, Cincinnati, OH |
| December, 2008 | Mid-Continent EarthScope Workshop, San Francisco, CA |
| December, 2008 | American Geophysical Union Fall Meeting, San Francisco, CA (2 Invited lectures) |
| December, 2008 | ESLI Town Hall Presentation, AGU Meeting, San Francisco, CA |
| January, 2009 | CNISS Energy Development Meeting, Belize City, Belize |
| February, 2009 | Missouri High School Science Teachers Professional Development, St. Louis, MO |
| March, 2009 | NASA Geology Training Workshop, Kennedy Space Center, Cape Canaveral, FL |
| March, 2009 | World President's Organization, New York, NY |
| March, 2009 | NAGT Distinguished Lecture, Millikin University, Decatur, IL |
| March, 2009 | National Science Teachers Assoc. (NSTA) Conference, New Orleans, LA |
| April, 2009 | Washington University Alumni & Development Lecture, New York, NY |
| April, 2009 | NAGT Distinguished Lecture, Colby College, Waterville, ME |
| May, 2009 | NASA Geology Training Workshop, Jet Propulsion Labs, Pasadena, CA |
| June, 2009 | COMPRES Workshop, Bretton Woods, NH |
| August, 2009 | American Chemical Society, Washington, DC |
| August, 2009 | NASA Geology Training Workshop, Johnson Space Center, Houston, TX |
| September, 2009 | Washington University, "Beyond Brookings" Alumni lecture |
| September, 2009 | NASA Geology Training Workshop, Marshall Space Flight Center, Huntsville, AL |

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| October, 2009 | National Science Teachers Assoc. (NSTA) Conference, Minneapolis, MN |
| November, 2009 | National Science Teachers Assoc. (NSTA) Conference, Fort Lauderdale, FL |
| November, 2009 | Washington University, Global Zero, St. Louis, MO |
| December, 2009 | National Science Teachers Assoc. (NSTA) Conference, Phoenix, AZ |
| December, 2009 | PIXAR Lecture Series, San Francisco, CA |
| January, 2010 | Division of National and Homeland Security, Argonne National Laboratory, Argonne, IL |
| January, 2010 | NASA Geology Training Workshop, Jet Propulsion Labs, Pasadena, CA |
| February, 2010 | Indiana Science Teachers Conference, Indianapolis, IN |
| February, 2010 | Earth System Science Workshop, American Geological Institute, Houston, TX |
| February, 2010 | On the Cutting Edge (OTCE), Deep Earth Workshop, Keynote Address, Online |
| March, 2010 | Southern Illinois University, Geology Department, Carbondale, IL |
| March, 2010 | National Science Teachers Assoc. (NSTA) Conference, Philadelphia, PA |
| April, 2010 | NASA Geology Training Workshop, Goddard Space Center, Greenbelt, MD |
| April, 2010 | NASA Geology Training Workshop, NASA Langley, Newport News, VA |
| May, 2010 | NASA Geology Training Workshop, Jet Propulsion Labs, Pasadena, CA |
| July, 2010 | NASA Geology Training Workshop, Kennedy Space Center, Cape Canaveral, FL |
| September, 2010 | Washington University, Office of General Counsel Retreat, St. Louis, MO |
| September, 2010 | Washington University, Alumni and Development/Admissions Meeting, St. Louis, MO |
| October, 2010 | Washington University, Global Zero, St. Louis, MO |
| October, 2010 | National Science Teachers Assoc. (NSTA) Conference, Kansas City, KS |
| November, 2010 | National Science Teachers Assoc. (NSTA) Conference, Baltimore, MD |
| November, 2010 | Online Webinar on the Development of New Science Education Standards, Pearson |
| November, 2010 | NASA Geology Training Workshop, Johnson Space Center, Houston, TX |
| December, 2010 | National Science Teachers Assoc. (NSTA) Conference, Nashville, TN |
| February, 2011 | Webinar Lecture, Visualizing Seismic Waves Workshop, On The Cutting Edge |
| March, 2011 | National Science Teachers Assoc. (NSTA) Conference, San Francisco, CA |
| April, 2011 | Iowa State University, Department of Geology, Ames, IA |

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| April, 2011 | Washington University, University presentation on the 2011 Japan earthquake, St. Louis, MO |
| April, 2011 | Washington University, Japanese Studies, St. Louis, MO |
| June, 2011 | Early Career Workshop, On The Cutting Edge, Williamsburg, VA (3 lectures) |
| June, 2011 | New Mexico Science Teachers Conference, Santa Fe, NM |
| July, 2011 | NASA Geology Training Workshop, Johnson Space Center, Houston, TX |
| July, 2011 | National Association of Geoscience Teachers, Webinar |
| October, 2011 | Scientific American Cruise, SS Rotterdam, Mediterranean Sea (5 lectures) |
| October, 2011 | National Science Teachers Assoc. (NSTA) Conference, Hartford, CT |
| November, 2011 | National Science Teachers Assoc. (NSTA) Conference, New Orleans, LA |
| November, 2011 | Washington University, Lifelong Learning Institute, St. Louis, MO |
| November, 2011 | Pearson Education, K-12 Professional Development, Webinar |
| December, 2011 | National Science Teachers Assoc. (NSTA) Conference, Seattle, WA |
| February, 2012 | Wednesday Club, Ladue, MO |
| March, 2012 | National Science Teachers Assoc. (NSTA) Conference, Indianapolis, IN |
| March, 2012 | NASA Geology Training Workshop, Kennedy Space Center, Cape Canaveral, FL |
| April, 2012 | St. Louis Science Center Café, St. Louis, MO |
| April, 2012 | Washington University, Alumni Weekend Presentation, St. Louis, MO |
| June, 2012 | Pearson Education, K-12 Professional Development, Webinar |
| July, 2012 | Illinois Science Teachers Association, Elgin, IL |
| July, 2013 | Workshop on Structure, Tectonics, and Geophysics, On The Cutting Edge, Knoxville, TN |
| September, 2012 | Pearson Education, K-12 Professional Development, Webinar |
| October, 2012 | Pearson Education, K-12 Professional Development, Webinar |
| November, 2012 | National Science Teachers Assoc (NSTA) Conference, Atlanta, GA |
| November, 2012 | Geological Society of America, Charlotte, SC |
| December, 2012 | National Science Teachers Assoc (NSTA) Conference, Phoenix, NM |
| January, 2013 | St. Louis Science Leadership Consortium, St. Louis, MO |
| January, 2013 | National Association of Geoscience Teachers, Webinar |
| February, 2013 | Illinois Teachers Association Workshop, Elgin, IL |
| March, 2013 | Eastern Regional Geologic Society of America Meeting, Bretton Woods, NH |
| April, 2013 | National Science Teachers Assoc (NSTA) Conference, San Antonio, TX |
| April, 2013 | Green Events Commission, Washington University, St. Louis, MO |
| April, 2013 | Weidenbaum Center, Washington University, St. Louis, MO |
| April, 2013 | Plainfield School District, Plainfield, IL |
| May, 2013 | National Science Teachers Assoc (NSTA) STEM Conference, St. Louis, MO |

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| June, 2013 | NASA Geology Training Workshop, Marshall Space Flight Center, Huntsville, AL |
| June, 2013 | Early Career Workshop, King Abdullah University of Science and Technology, Jeddah, Saudi Arabia |
| July, 2013 | Early Career Workshop, On The Cutting Edge, Washington, DC |
| September, 2013 | Washington University, Young Scientists Program, St. Louis, MO |
| October, 2013 | Great Lakes Planetarium Association Annual Meeting, Peoria, IL |
| October, 2013 | Washington University, ProSPER (Promoting Science, Policy, Education, and Research), St. Louis, MO |
| October, 2013 | Washington University, Parents' Council keynote address, St. Louis, MO |
| October, 2013 | National Science Teachers Assoc (NSTA) Conference, Portland, OR |
| October, 2013 | Geological Society of America Meeting, Denver, CO (2 invited talks) |
| November, 2013 | Insight Cruise, Patagonia (4 invited talks) |
| December, 2013 | American Geophysical Union Annual Meeting, San Francisco, CA (2 invited talks) |
| March, 2014 | Washington University, Lifelong Learning Institute, Lawrence Jasper Lecture, St. Louis, MO |
| April, 2014 | Eastern Regional Geologic Society of America Meeting, Blacksburg, VA |
| April, 2014 | National Science Teachers Assoc (NSTA) Conference, Boston, MA |
| April, 2014 | Philadelphia Archdiocese Education Meeting, Radnor, PA |
| July, 2014 | Renaissance Weekend, Monterrey, CA (2 invited talks) |
| July, 2014 | National Marine Educators Association Meeting, Annapolis, MD |
| August, 2014 | Washington University, Department of Earth and Planetary Sciences seminar, St. Louis, MO |
| September, 2014 | Philadelphia Archdiocese Education Training, Radnor, PA |
| October, 2014 | University of Illinois, Department of Geology department seminar, Chicago, IL |
| October, 2014 | Washington University, Department of Physics department seminar, St. Louis, MO |
| October, 2014 | Mississippi Science Teachers Assoc (MSTA) Conference, Jackson, MS |
| October, 2014 | Rockwood School District, Rockwood, MO |
| November, 2014 | Washington University, Department of Earth and Planetary Sciences brown-bag seminar, St. Louis, MO |
| November, 2014 | Rockwood School District, Rockwood, MO |
| November, 2014 | National Science Teachers Assoc (NSTA) Conference, Orlando, FL |
| December, 2014 | National Science Teachers Assoc (NSTA) Conference, Long Beach, CA |
| December, 2014 | American Geophysical Union Annual Meeting, GIFT Workshop for Teacher Professional Development, San Francisco, CA |
| December, 2014 | American Geophysical Union Annual Meeting, San Francisco, CA |
| January, 2015 | Rockwood School District, Rockwood, MO |
| February, 2015 | High-Impact Emergency Medicine Conference, Honolulu, HI (4 presentations) |

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| February, 2015 | Northwestern University, Department of Earth and Planetary Sciences department seminar, Evanston, IL (2 presentations) |
| March, 2015 | National Science Teachers Assoc (NSTA) Conference, Chicago, IL (2 presentations) |
| March, 2015 | American Geosciences Webinar (1 hour, on national geoscience education) |
| April, 2015 | NSF Webinar on the Future of Geophysical Facilities (1 hour, with Cathy Manduca and Dave Mogk). |
| April, 2015 | WashU Sustainability Panel (with Bill Lowry and Scott Krummenacher) |
| May, 2015 | Summit on the Implementation of the Next Generation Science Standards, American Geosciences Institute (Keynote lecture), Washington, D.C. |
| June, 2015 | Rockwood School District, Rockwood, MO |
| July, 2015 | Earth Educators Rendezvous, Boulder, CO |
| July, 2015 | Elmhurst School District Workshop, Elmhurst, IL |
| August, 2015 | Friendship Village, Chesterfield, MO |
| October, 2015 | Washington University, Alpha Delta Phi fraternity keynote lecture on sustainability, St. Louis, MO |
| October, 2015 | Brevard County (Florida) Science Teachers Association, Cocoa, FL |
| October, 2015 | St. Louis Science Center, St. Louis, MO |
| October, 2015 | National Science Teachers Assoc (NSTA) Conference, Reno, NV |
| November, 2015 | Geological Society of America Annual Meeting, Baltimore, MD |
| November, 2015 | Nanjing University, Nanjing, China |
| November, 2015 | Nanjing University of Science and Technology, Nanjing, China |
| November, 2015 | Peking University, Beijing, China |
| November, 2015 | Beijing Normal University, Beijing, China |
| December, 2015 | American Geophysical Union Annual Meeting, San Francisco, CA |
| January, 2016 | Palatine School District Science Workshop, Palatine, IL |
| February, 2016 | Long Island Science Teachers' Workshop, Brentwood, NY |
| February, 2016 | Pearson, Webinar on the Next Generation Science Standards |
| March, 2016 | Sky&Telescope Cruise, Indonesia (4 invited talks) |
| March, 2016 | High-Impact Emergency Medicine Conference, Maui, HI (4 presentations) |
| April, 2016 | Dayton School District Science Workshop, Dayton, OH |
| May, 2016 | Science-On-Tap, St. Louis, MO |
| June, 2016 | University of California at Davis, Department of Earth and Planetary Sciences, Davis, CA |
| July, 2016 | National Geographic Expedition to Svalbard, Greenland, and Iceland (3 presentations) |
| July, 2016 | Wheaton School District Science Workshop, Wheaton, IL |
| September, 2016 | Geological Society of America Annual Meeting, Denver, CO |
| September, 2016 | Washington University, Emeriti Faculty Invited Lecture, St. Louis, MO |
| September, 2016 | Washington University, Energy Resource Panel, sponsored by the Physics Student Organization, St. Louis, MO |

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| September, 2016 | Washington University, Environmental Weekly Meeting, St. Louis, MO |
| October, 2016 | National Association of Geoscience Teachers, National Webinar on Science Education |
| October, 2016 | National Science Teachers Assoc (NSTA) Conference, Minneapolis, MN |
| October, 2016 | Detroit Public School District Science Workshop, Detroit, MI |
| November, 2016 | National Science Teachers Assoc (NSTA) Conference, Portland, OR |
| December, 2016 | National Science Teachers Assoc (NSTA) Conference, Columbus, OH |
| December, 2016 | American Geophysical Union Annual Meeting, San Francisco, CA |
| March, 2017 | National Science Teachers Assoc (NSTA) Conference, Los Angeles, CA (2 presentations) |
| March, 2017 | Washington University, Invited Lecture in International and Area Studies, St. Louis, MO |
| April, 2017 | High-Impact Emergency Medicine Conference, Maui, HI (4 presentations) |
| April, 2017 | Seismological Society of America Annual Meeting, Denver, CO |
| April, 2017 | Washington University, Honors Program Invited Lecture, St. Louis, MO |
| September, 2017 | Washington University, Major Donors Public Policy Luncheon, Weidenbaum Center, St. Louis, MO |
| September, 2017 | St. Louis Public School District Science Workshop, St. Louis, MO |
| October, 2017 | National Science Teachers Assoc (NSTA) Conference, Baltimore, MD (2 presentations) |
| October, 2017 | Water Justice Workshop, US Green Building Council, Missouri Gateway Chapter, St. Louis, MO |
| October, 2017 | Kansas City Public School District Science Workshop, Kansas City, MO |
| October, 2017 | Geological Society of America Annual Meeting, Seattle, OR (4 Invited Presentations) |
| November, 2017 | Long Island School Districts Science Workshop, Farmingdale, NY |
| November, 2017 | Council of School Supervisors and Administrators Conference, New York, New York |
| November, 2017 | National Science Teachers Assoc (NSTA) Conference, Milwaukee, WI |
| December, 2017 | National Science Teachers Assoc (NSTA) Conference, New Orleans, LA |
| December, 2017 | American Geophysical Union Annual Meeting, New Orleans, LA |
| January, 2018 | Tampa Bay School Districts Science Workshop, Tampa Bay, FL |
| February, 2018 | Schaumburg School District Science Workshop, Schaumburg, IL |
| February, 2018 | Rockwood Public School District Science Workshop, Rockwood, MO |
| March, 2018 | Washington University, Assembly Series Lecture, St. Louis, MO |
| March, 2018 | Washington University Alumni Chicago Regional Cabinet Annual Dinner, Chicago, IL |
| March, 2018 | National Science Teachers Assoc (NSTA) Conference, Atlanta, GA (2 presentations) |

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| April, 2018 | High-Impact Emergency Medicine Conference, Maui, HI (4 presentations) |
| April, 2018 | Climate Summit, St. Louis University, St. Louis, MO (Panel moderator) |
| July, 2018 | Renaissance Weekend, Vail, CO (3 presentations) |
| July, 2018 | National Science Teachers Assoc (NSTA) STEM Conference, Orlando, FL (Keynote Address) |
| September, 2018 | Math for America Workshop, New York, NY |

FUNDING:

- W. M. Keck Foundation: Planetary geodynamics equipment purchases (P.I. – R. Arvidson, Washington University); June, 1992; \$230,000.
- Pew Midstates: Undergraduate Student Research Assistance; June 1, 1992 to May 31, 1993; \$7,122.
- NSF-EAR-9205368: "Diffracted wave studies of the structure of the core-mantle boundary"; July 1, 1992 to June 31, 1994; \$110,000.
- David and Lucille Packard Fellowship for Science and Engineering; 1992-1997, \$500,000.
- Washington University Research Grant: Purchase of Broadband seismometer (with D. Wiens); 1993; \$32,000.
- Kemper Faculty Grant to Improve Learning; 1993-1994, \$11,500.
- NSF-EAR-9319324: "The Missouri to Massachusetts Broadband Seismometer Deployment: Collaborative Studies of Mantle Structure"; June 1, 1994 to December 31, 1996; \$79,267 (total of \$366,603 including Brown Univ. and Univ. of Illinois parts).
- NSF-REU-Supplement: "Research Experience for Undergraduates, Supplement to NSF MOMA Project", July 1, 1994 to December 31, 1996; \$30,369.
- NSF-EAR-9417542: "Seismic Studies of the Lowermost Mantle and Core-Mantle Boundary"; January 1, 1995 to December 31, 1996; \$80,451.
- NSF-EAR-9417494: "Acquisition of an Erasable Optical Jukebox for Analysis of Seismic Data" (with D. Wiens); 1995; \$27,401.
- NSF-DUE-9455417: "Educational Earthquake Visualization": April 15, 1995 to April 15, 1998; \$138,133.
- Lilly Teaching Fellowship, 1995-1996, \$6,500.
- NSF-EAR-9614199: "Upgrade of Computational Facilities for Seismology Research" (with D. Wiens, D. Zhao, G. Al-eqabi, and P. Shore); 1996; \$36,203.
- NSF-EAR-9629018: Presidential Early Career Award for Science and Engineering; 1997-2003, \$500,000.
- NSF-EAR-9712311: "CSEDI Collaborative Laboratory, Seismological, & Geodynamical Study of the Transition Zone Within and Near Subducting Slabs": July 1, 1997 to June 30, 1999; \$199,000 (Co-PIs: A. Hofmeister, R. Phillips, D. Wiens, D. Zhao).
- NSF-MRI-9977670: "Acquisition of a Parallel Computer for Research and Research Training in Science at Washington University" (PI: W.-M. Suen; Co-PIs - C. Bernard, B. Pickard, M. Wickerhauser, M. Wyssession); 1999-2003; \$1,208,403.
- NSF-EAR-9903260: "Collaborative Research: The Florida to Edmonton Broadband Seismic Deployment" (with K. Fischer); 2001-2004, \$157,072.

- NSF-REU-9903260: "Research Experience for Undergraduates, Supplement to NSF Collaborative Research: The Florida to Edmonton Broadband Seismic Deployment"; 2001, \$5,000.
- Kemper Faculty Grant to Improve Learning; (with U. Goodenough and C. Bernard) 1999-2000, \$16,006.
- NSF-EAR-0207751: "Mapping Small-Scale Structure Above the Core-Mantle Boundary;" 2002-2007, \$300,000.
- NSF-EAR-0207737: "Acquisition of a New Geophysics Computer System" (Co-PI with D. Wiens); 2002-2006, \$96,999.
- NSF: IRIS Undergraduate Internship, 2005-2006, \$5,765.
- NSF: EarthScope EAR-0544731: "Seismic Travel Times and Attenuation Measurements: An EarthScope Data Product;" 2006-2010, \$215,135.
- NSF: EAR-0832415: Collaborative Research: "The Earth Science Literacy Initiative" (with John Taber, IRIS); 2008-2010, \$128,121.
- NSF: EAR-0929946: "Development of New Rotational Seismometers of High Sensitivity" (with Ram Cowsik and Doug Wiens); 2009-2011, \$389,949.
- NSF: EAR-0842295: "Acquisition of a New Linux-Based Computer System for Geophysical Research" (with Doug Wiens); 2009-2011, \$74,881.
- NSF: EAR-0838426: Collaborative Research: "Investigation of Sources of Intraplate Volcanism Using PASSCAL Broadband Instruments in Madagascar, The Comores, and Mozambique (MACOMO) (with Doug Wiens and Andy Nyblade); 2010-2015, \$725,417. (Total budget of \$958,348.)
- NSF: EAR-0952154: Collaborative Research: "Superior Province Rifting EarthScope Experiment (SPREE)" (with Suzan van der Lee, Donna Jurdy, and Seth Stein (Northwestern), Doug Wiens (WashU), Justin Revenaugh (Univ Minnesota), Andrew Frederiksen (Univ Manitoba), Fiona Darbyshire (Univ Quebec)), 2010-2015, \$448,212. (Total budget of \$1,091,814.)
- NSF: DUE-1022844: Collaborative Research: "On the Cutting Edge: A Community Resource Transforming Geoscience Education (OTCE)" (with Barbara Tewksbury (Hamilton College), Heather Macdonald (William and Mary), Cathy Manduca (Carleton), Rachel Beane (Bowdoin), David McConnell (North Carolina State), Katryn Wiese (City College of San Francisco), Dave Mogk (Montana State)); 2010-2015, \$124,495. (Total budget of \$4,999,777.) (Current, with no-cost extension)
- NSF: EAR-1520872: "Mapping the Middle of the Mantle-Core Dynamic System;" 2015-2018, \$375,000. (Current)
- Washington University Course Development Grant: 2016, \$4500.

STUDENTS/RESEARCHERS SUPERVISED AND CO-SUPERVISED:

- An-Ning Zhu: Post-Doctoral Assistant, 6/93 - 5/95.
- Saadia Baqer: Post-Doctoral Assistant, 10/97 - 6/02.
- Ghassan Al-Eqabi: Post-Doctoral/Research Scientist, 1995 - present.
- Patrick Shore: Research Scientist, 1991 – present.

Graduate Students:

- Raul Valenzuela Wong: Ph.D., 12/96.
- Keith Koper: Ph.D., 8/98.

Jesse Fisher Lawrence: Ph.D., 8/04.

Garrett Euler: Ph.D., 12/12.

Daniel Bartz: M.S., 5/15

Martin Pratt: Ph.D., 2/16

Arjun Neupane: M.S., 8/17

Fenitra Andriampenomanana Ny Ony: Ph.D., 1/18

Tsirindrimanana Rakotondraibe: Current

Other graduate students partially advised with research (Jacob Lesgold, Lilla Bartkó, Stacey Robertson, Brian White, Moira Pyle, David Heeszel).

Undergraduate Students Advised in Research:

Michael Debus, 8/2018 – present; Allie Lindstrom, 10/2016 – present; Adam Sandor, 5/2014 – 8/16; Becky Schultz, 8/2014 – 5/2015; Hannah Walcek, 5/2014 – 12/2014; Sreyas Chintapalli, 1/2013 – 5/2014; Tyler Yates, 1/2013 – 5/2014; David Brablec, 1/2013 – 9/2013; Nikil Dharan, 9/2012 – 5/2013; Chris Menard, 05/2011 – 05/2012; Hannah Rabinowicz, 09/2010 – 05/2011; Angela Goodiel, 06/2010 – present; Brittany Huhmann: 09/2007 – 09/2008; Hesham Humbazazza: 09/2005 – 6/2006; Tara Mayeau: 06/2005 – 08/2005; Eboni Collins: 09/2003 – 5/2005; Scott Parton: 09/2003 - 12/2004; Kurt Solander: 05/2002 - 8/2003; Jessica Lin: 09/2002 - 05/2002; Emily Carter: 8/2002 - 5/2003; Juliana Rakosky: 6/2002 - 8/2002; Tracy Portle: 5/2002 - 6/2002, 5/2003-8/2003; Rakhi Kasat: 9/2000 - 5/2001; Laquesha Andrews: 9/2000 - 5/2001; Paul Geisting: 6/2000 - 9/2000; Brian Yanites: 5/1999 - 8/2001; Tim Huff: 5/1999 - 5/2000; Megan Murphy: 8/1998 - 7/2002; Itai Gurari: 5/1998 - 5/2000; Ranjini Mahinda: 8/1997 - 5/1999; Jared Leavitt: 9/1997 - 5/1998; Amy Langenhorst: 6/1997 - 9/1997, and 6/1998 - 9/1998; Jacob Owen: 5/1997 - 8/1997, and 5/1998 - 8/1998; Jeffrey Watts: 5/1997 - 8/1997; Mason Mitchell-Daniels: 8/1996 - 5/1997; Chris Wolpert: 6/1996 - 8/1996; Jeremy Voligny: 1/1996 - 6/1996; Manjali Gupta: 8/1995 - 6/1996; Brian Murray: 6/1995 - 8/1997; Martha Neustadt: 3/1995 - 8/1996; Andrew Hovland: 8/1994 - 6/1995; Brian Hicks: 8/1993 - 8/1995; Rachel Sakata: 8/1993 - 6/1995; Jessica Butler: 11/1992 - 9/1994; Diane Pietrzak: 9/1992 - 5/1993; Joyce Wilson, 1992; Lilla Bartkó, 1992.

COURSES TAUGHT:

Physical Geology - EPS 119A (Fall-1991).

*Ring of Fire: Earthquakes, Volcanoes, and Plate Tectonics - EPS 130A (Fall-1993; Fall-1994; Fall-1997; Fall-2006)

*Evolution of the Earth - EPS 200A (Spring-1993; Fall-1996; Fall-1998; Fall-2000; Fall-2001; Fall-2002)

*Earth and the Environment - EPS 201 (Fall-2004; Fall-2006; Fall-2008; Fall-2010; Fall-2012; Fall-2014; Fall-2016)

*Critical Earth Issues (as part of Semester Online) – EPS 203S (Spring-2014; Summer-2014)

*Epic of Evolution - Biol/EPS/Phys 210A (Spring-2000; Spring-2001; Spring-2002; Spring-2003, Spring-2005, Spring-2006, Spring-2008, Spring-2009, with C. Bernard and U. Goodenough; Spring-2010, with U. Goodenough and C. Will)

*Energy and the Environment – EPS 219 (Spring-2011 (w/ P. Gibbons), Spring-2012 (w/ P. Gibbons), Spring-2013; Spring-2015; Spring-2018)

Earth Forces – EPS 353 (Spring-2006; Spring-2008, with D. Wiens; Spring-2010; Spring-2012; Spring-2014; Spring-2017)
 Introduction to Geophysics - EPS 450 (Fall-1992; Fall-1995, with D. Wiens)
 **Introduction to Seismology - EPS 452 (Spring-1997, with D. Wiens; Spring-1998; Spring-2000; Spring-2002; Fall-2003; Fall-2005; Fall-2007; Fall-2009; Fall-2011; Fall-2013; Fall-2015; Fall-2017)
 *Interior of the Earth - EPS 453 (Spring-1992; Spring-1994, with R. Phillips; Spring-1999, Spring-2001, Spring-2003, with D. Wiens; Spring-2005; Spring-2007, Spring-2009, Spring-2011, Spring-2013, with D. Wiens)
 Undergraduate Research Seminar - EPS 498 (Fall-2003, with R. Phillips)
 Geodynamics - EPS 559 (Spring-1994, with R. Phillips; Spring-1997, with D. Wiens; Spring-2004)
 *Advanced Seismology - EPS 561 (Fall-1995, with D. Wiens)
 Geophysics Seminar - EPS 595 (Fall-1991, with D. Wiens; Fall-1992, with D. Wiens)
 *Topical Seminar in Geosciences - EPS 597 (Spring-1998, with L. Haskin; Spring-1999, with R. Dymek)
 **How the Earth Works – MLA 559 (Fall-2008)
 (* - Designed or co-designed the course)
 (** - Used my own textbook)

WASHINGTON UNIVERSITY AND DEPARTMENT RESPONSIBILITIES:

Department (Current):

EPS Pew Midstates Consortium Representative, 1991- present
 EPS Graduate Studies Committee, 2010 – present

Department (Past):

EPS Graduate Student Recruiting Committee, 1998 - 2001 (Chair); 2006 – 2018 (Chair)
 EPS Undergraduate Major Advisor, 2014 – 2017
 EPS Undergraduate Program Development and Advising Committee, 1991- 2010 (Chair, 1991-1997)
 EPS Computers and Data Management Committee, 2001 – 2005
 EPS Graduate Student Advisor, 2004 - 2005
 EPS Curriculum and Teaching Committee Member, 1991- 2010
 EPS Departmental Undergraduate Advisor, 1991-1997
 EPS United Way Representative, 1991- 1993
 Faculty Representative to the Graduate Council, 1992 - 1993
 EPS Tolman Fellowship Development, 1992

Arts and Sciences (Current):

Curriculum Review Committee, 2018 – present
 NSF Graduate Research Fellowship Mentoring Program, 2017 – present
 Compton-Ferguson Science Lecture Series Planning Committee, 2016 – present

Arts and Sciences (Past):

Academic Planning Committee, 2013 – 2015
 Faculty Council (Chair, 2013-2014, Spring 2015), 2012 – 2015

University (Current):

Undergraduate Council, 2018 – present
 Canvas Steering Committee, 2018 – present
 IT Infrastructure Committee, 2018 – present
 University Library Committee, 2018 – present
 Washington University Climate Change Program, Steering Committee, 2017 - present
 Improving the Undergraduate Experience Committee, 2017 – present
 University IT Teaching and Learning Committee, 2016 – present
 University Online Education Committee, 2014 – present

University (Past):

University Conflict of Interest/Disclosure Review Committee, 2009 – 2018
 Frankenstein Bicentennial Planning Committee, 2017 – 2018
 University Semester Online, Course development and instruction, Earth's Critical Issues, 2013-2014
 University Open Access Committee, 2009 – 2013
 University Speakers' Bureau, 2004-2006, 2010 – 2011
 University Cluster Convener for clusters CL1600, 1777, 1801, 2002 – 2011
 University Discrimination and Title IX Grievance Committee, 2004 – 2009
 University Undergraduate Teacher Preparation Board, 1998 - 2007
 University Four-Year Undergraduate Advisor, 1999 - 2004
 University Supercomputer Advisory Committee, 1999 – 2003
 University's First Resident Faculty Fellow, 1998 - 2001
 University Residential College Associates Team, 1998 - 2001
 University Special Major Committee, 1997 - 1999
 University Undergraduate Council, 1997- 1999
 University Undergraduate Council (Steering Committee), 1998 - 1999
 Chair, University UC Information Dissemination Committee, 1998 – 1999
 University Disabled Students Committee, 1997
 University Natural Sciences Curriculum Committee, 1996-1997
 University Witherspoon Search Committee, 1996
 University Undergraduate Brochure Committee, 1996
 University Course Evaluation Task Force, 1995
 University Mathematics Task Force, 1995
 University Freshman Advisor; 1992-1993
 University Compton Scholar Selection Committee; 1992 - 1993
 University Secondary Education Certification Evaluation Committee, 1992-1993

CURRENT COMMUNITY SERVICE

Clayton City School District Science Advisory Board, 2001 – present
 St. Louis Science Center Advisory Board, 2002 - 2008
 Volunteer lecturing, Public Schools, St. Louis, MO

MEETING ABSTRACTS (past 5 years):

- Wyssession, M. E., Implications of the Next Generation Science Standards, GSA Eastern Section Annual Meeting, Bretton Woods, NH, March, 2013.
- Aleqabi, G. I., G. Euler, D. A. Wiens, M. E. Wyssession, S. van der Lee, J. Revenaugh, A. Frederiksen, F. Darbyshire, S. Stein, and D. Jurdy, Array Analysis of Lake Superior Microseisms, EarthScope National Meeting, Raleigh, NC, May, 2013.
- Aleqabi, G. I., D. A. Wiens, M. E. Wyssession, S. van der Lee, J. Revenaugh, A. Frederiksen, F. Darbyshire, S. Stein, and D. Jurdy, High-resolution 3D Crustal Structure of the North America Midcontinent Rift from Ambient Noise Tomography, EarthScope National Meeting, Raleigh, NC, May, 2013.
- Wyssession, M. E., What the Next Generation Science Standards Mean for Informal Education, Great Lakes Planetarium Association annual meeting, Peoria, IL, October, 2013.
- MacDonald, R. H., C. A. Manduca, D. W. Mogk, B. J. Tewksbury, S. P. Fox, R. J. Beane, D. A. McConnell, K. Wiese, M. E. Wyssession, and SERC WEBTEAM, On the Cutting Edge and a Decade of Transforming Geoscience Education, Paper No. 319-4, GSA Annual Meeting, Denver, CO, October, 2013.
- Rowan, L. and M. E. Wyssession, Geological Consent for Hazards Mitigation and Resource Management Policy, Paper No. 65-11, GSA Annual Meeting, Denver, CO, October, 2013. (Invited)
- Wyssession, M. E., Earth and Space Science in the Next Generation Science Standards, Paper No. 17-1, GSA Annual Meeting, Denver, CO, October, 2013. (Invited)
- Wyssession, M. E., The 3-D Seismic Structure Beneath Madagascar, Paper No. 316-4, GSA Annual Meeting, Denver, CO, October, 2013.
- Wyssession, M. E., and L. Rowan, Geoscience Public Policy: Environmental Impacts and Education, Paper No. 65-10, GSA Annual Meeting, Denver, CO, October, 2013. (Invited)
- Wyssession, M. E., M. Colson, R. A. Duschl, K. Huff, R. Lopez, P. Messina, P. Speranza, Implications of the NGSS for Future Geoscience Education, Paper No. 192-12, GSA Annual Meeting, Denver, CO, October, 2013.
- Aleqabi, G. I., D. A. Wiens, M. E. Wyssession, S. van der Lee, J. Revenaugh, A. Frederiksen, F. Darbyshire, S. Stein, and D. Jurdy, The structure of the mid-continent rift of North America from combined surface wave and ambient noise tomography, Abstract T21B-2547 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- Euler, G. G., T. Yates, and M. E. Wyssession, Seismic Structure of the Lowermost Mantle from Core-Diffracted Waves, Abstract DI51A-2272 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- Kachingwe, M., A. Nyblade, G. D. Mulibo, A. Mulowezi, E. Kunkuta, V. De Magalhaes, D. A. Wiens, M. E. Wyssession, J. Julia, Preliminary Results for Crustal Structure in Southeastern Africa from P-wave Receiver Functions, Abstract S31C-2358 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- Pratt, M. J., M. E. Wyssession, D. A. Wiens, A. Nyblade, G. I. Aleqabi, P. J. Shore, G. Rambolamana, F. Sy Tanjona Andriampenomanana, T. Rakotondraibe, Receiver function analysis and preliminary body wave tomography of the MACOMO network in Madagascar, Abstract S23A-2474 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.

- Shore, P. J., G. I. Aleqabi, M. E. Wyssession, D. A. Wiens, A. Nyblade, G. Rambolamana, T. Rakotondraibe, F. Sy Tanjona Andriampenanana, The structure of the lithosphere and asthenosphere beneath Mozambique and Madagascar from combined surface wave and ambient noise tomography, Abstract S31A-2347 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- Wyssession, M. E., How Climate Science got to be in the Next Generation Science Standards, Abstract ED12A-01 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec. (Invited)
- Wyssession, M. E., Teaching About Critical Earth Issues in the 2U Semester Online Consortium, Abstract ED53E-0670 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec. (Invited)
- Wyssession, M. E., M. Colson, R. A. Duschl, K. Huff, R. Lopez, P. Messina, P. Speranza, Challenges of the NGSS for Future Geoscience Education, Abstract ED53C-0645 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- Wyssession, M. E., Challenges designing an Earth and space curriculum aligned with the NGSS, Abstract at 2014 63rd Southeastern Meeting of the Geological Society of America, T16.15-1, April, 2014.
- Aleqabi, G., D. A. Wiens, M. E. Wyssession, S. van der Lee, J. Revenaugh, A. W. Frederiksen, F. A. Darbyshire, S. A. Stein, D. Jurdy, E. Wolin, and T. A. Bollmann, The Crust and Mantle Structure of the Mid-Continent Rift System from Ambient Noise and Earthquake Surface Wave Analysis, Abstract T23B-4656 at 2014 Fall Meeting, AGU, San Francisco, Calif., Dec 15-19, 2014. (poster)
- Bartz, D., M. E. Wyssession, D. A. Wiens, G. I. Aleqabi, P. Shore, S. van der Lee, D. Jurdy, S. A. Stein, J. Revenaugh, E. Wolin, T. A. Bollmann, A. W. Frederiksen, and F. A. Darbyshire, Assessing microseismicity of the Northern Mid-Continent Rift Zone and Surrounding Regions, Abstract T13B-4638 at the 2014 Fall Meeting, AGU, San Francisco, Calif., Dec 15-19, 2014. (poster)
- MacDonald, R. H., C. A. Manduca, D. W. Mogk, B. J. Tewksbury, S. P. Fox, E. A. R. Iverson, R. J. Beane, D. A. McConnell, K. Wiese, M. E. Wyssession, and SERC WEBTEAM, On the Cutting Edge: Workshops, Online Resources, and Community Development, Abstract ED41C-03 at the 2014 Fall Meeting, AGU, San Francisco, Calif., Dec 15-19, 2014. (invited talk)
- Mogk, D. W., M. E. Wyssession, A. Beauregard, L. A. Reinen, K. Surpluss, K. O'Connell, and J. R. McDaris, Undergraduate Research in Earth Science Classes: Engaging Students in the First Two Years, Abstract ED21D-3479 at the 2014 Fall Meeting, AGU, San Francisco, Calif., Dec 15-19, 2014. (talk)
- Nyblade, A., C. Ramirez, B. C. Bagley, G. D. Mulibo, F. Tugume, M. E. Wyssession, and D. A. Wiens, Shear Wave Splitting Across Eastern, Western, and Southern Africa, Abstract DI22A-06 at the 2014 Fall Meeting, AGU, San Francisco, Calif., Dec 15-19, 2014. (talk)
- Pratt, M. J., G. I. Aleqabi, M. E. Wyssession, D. A. Wiens, A. Nyblade, P. J. Shore, G. Rambolamana, T. Rakotondraibe, and F. Sy Tanjona Andriampenanana, Combined teleseismic surface wave and receiver function analysis of the crust and upper mantle of Madagascar, Abstract T23B-4664 at the 2014 Fall Meeting, AGU, San Francisco, Calif., Dec 15-19, 2014. (poster)

- Wyssession, M. E., Implementing the Next Generation Science Standards: Impacts on Geoscience Education, Abstract ED53E-01 at the 2014 Fall Meeting, AGU, San Francisco, Calif., Dec 15-19, 2014. (invited talk)
- Wyssession, M. E., G. I. Aleqabi, M. J. Pratt, P. Shore, D. A. Wiens, A. Nyblade, G. Rambolamana, F. Sy Tanjona Andriampenomanana, and T. Rakotondraibe, The Effect of Recent Volcanic Activity on the Seismic Structure of Madagascar, Abstract T32A-05 at the 2014 Fall Meeting, AGU, San Francisco, Calif., Dec 15-19, 2014. (talk)
- Ellins, K., D. Charlevoix, A. Mathis, S. Robinson, S. Semken, F. Simons, R. Spidell-Whitley, J. Taber, and M. Wyssession, Opportunities for EarthScope Education and Outreach, Abstract at the 2015 EarthScope Workshop, Stowe, VT, 2015.
- Stein, C. A., S. Stein, J. Kley, G. R. Keller, T. Bollman, E. Wolin, H. Zhang, A. Frederiksen, K. Ola, M. E. Wyssession, D. A. Wiens, G. I. Aleqabi, G. P. Waite, E. Blavascunas, C. A. Engelmann, L. M. Flesch, J. Crane, T. O. Rooney, R. Moucha, and E. Brown, North America's Midcontinent Rift: When Rift Met LIP, Paper No. 181-12, GSA Annual Meeting, Baltimore, MD, November, 2015. (talk)
- Wyssession, M. E., The Intended Role of Climate and Climate Change in the Next Generation Science Standards, Paper No. 183-3, GSA Annual Meeting, Baltimore, MD, November, 2015. (invited talk)
- Wyssession, M. E., Opportunities and Challenges of Incorporating Earth and Space Sciences into the Next Generation Science Standards, Paper No. 58-2, GSA Annual Meeting, Baltimore, MD, November, 2015. (talk)
- Wyssession, M. E., M. J. Pratt, F. Sy Tanjona Andriampenomanana, G. I. Aleqabi, D. A. Wiens, A. Nyblade, P. J. Shore, G. Rambolamana, and T. Rakotondraibe, The Seismic Structure of Madagascar: A Synthesis of Studies Using Body and Surface Waves, Paper No. 47-25, GSA Annual Meeting, Baltimore, MD, November, 2015. (poster)
- Aleqabi, G. I., D. A. Wiens, M. E. Wyssession, W. Shen, S. van der Lee, J. Revenaugh, A. Frederiksen, F. A. Darbyshire, S. Stein, D. Jurdy, E. Wolin, T. A. Bollmann, Rayleigh Wave Tomography of Mid-Continent Rift (MCR) using Earthquake and Ambient Noise Data, Abstract T11C-2904 at the 2015 Fall Meeting, AGU, San Francisco, Calif., Dec 14-18, 2015.
- Bruckner, M., H. Macdonald, R. Beane, C. Manduca, D. McConnell, D. Mogk, B. Tewksbury, K. Wiese, and M. Wyssession, On the Cutting Edge Professional Development Program – An Effective Model Built from Years of Experience, Abstract ED43D-0893 at the 2015 Fall Meeting, AGU, San Francisco, Calif., Dec 14-18, 2015.
- Ghalib, H., G. Aleqabi, and M. E. Wyssession, Infrasound and Seismic Recordings of a US Airstrike on an ISIS Car Bomb Factory on June 3, 2015, Abstract S51C-2700 at the 2015 Fall Meeting, AGU, San Francisco, Calif., Dec 14-18, 2015.
- Pratt, M. J., M. E. Wyssession, G. I. Aleqabi, D. A. Wiens, A. Nyblade, P. J. Shore, G. Rambolamana, T. Rakotondraibe, and F. Sy Tanjona Andriampenomanana, Teleseismic Body Wave Analysis of the Madagascan Asthenosphere and its Relationship to Intraplate Volcanism, Abstract T41D-2921 at the 2015 Fall Meeting, AGU, San Francisco, Calif., Dec 14-18, 2015.
- Ramirez, C., A. Nyblade, B. Bagley, G. Mulibo, F. Tugume, M. E. Wyssession, D. A. Wiens, and M. van der Meide, Mantle flow implications across Eastern and Southern Africa from shear wave splitting measurements, Abstract T51G-3006 at the 2015 Fall Meeting, AGU, San Francisco, Calif., Dec 14-18, 2015.

- Stein, C., S. Stein, J. Kley, G. Keller, T. Bollmann, E. Wolin, H. Zhang, A. Frederiksen, K. Ole, M. Wyession, D. Wiens, G. Aleqabi, G. Waite, E. Blavascunas, C. Engelmann, L. Flesch, T. Rooney, R. Moucha, and E. Brown, North America's Mid-Continent Rift: When Rift Met LIP, Abstract T24A-06 at the 2015 Fall Meeting, AGU, San Francisco, Calif., Dec 14-18, 2015.
- Wyession, M. E., Challenges of Incorporating Earth and Space Sciences into Curricula Aligned with the Next Generation Science Standards, Abstract ED34C-01 at the 2015 Fall Meeting, AGU, San Francisco, Calif., Dec 14-18, 2015.
- Wyession, M. E., F. Sy Tanjona Andriampenomanana, T. Rakotondraibe, M. J. Pratt, G. I. Aleqabi, D. A. Wiens, A. Nyblade, P. J. Shore, G. Rambolamana, and F. Tilmann, The Seismic Structure of the Crust of Madagascar, Abstract T11A-2861 at the 2015 Fall Meeting, AGU, San Francisco, Calif., Dec 14-18, 2015.
- Zhang, H., S. van der Lee, E. Wolin, T. Bollmann, J. Revenaugh, D. A. Wiens, M. E. Wyession, G. Aleqabi, A. Frederiksen, F. Darbyshire, S. Stein, and D. Jurdy, Crustal Structure in the Area of the North American Mid-Continent Rift System From P-Wave Receiver Functions, Abstract T11C-2906 at the 2015 Fall Meeting, AGU, San Francisco, Calif., Dec 14-18, 2015.
- Shen, W., D. Wiens, G. Aleqabi, S. Van der Lee, S. Stein, M. E. Wyession, A. Frederiksen, F. Darbyshire, H. Zhang, E. Wolin, and T. Bollman, A comprehensive seismic investigation of the mid-continent rift from USArray and SPREE, Paper No. 7-7, GSA Annual Meeting, Denver, CO, September, 2016. (oral)
- Zhang, H., S. Van der Lee, E. Wolin, T. Bollman, J. Revenaugh, D. Wiens, A. Frederiksen, F. Darbyshire, G. Aleqabi, M. E. Wyession, S. Stein, and D. M. Jurdy, Distinct Crustal Structure of the North American Mid-Continent Rift from P-Wave Receiver Functions, Paper No. 7-8, GSA Annual Meeting, Denver, CO, September, 2016. (oral)
- Wyession, M. E., Honoring Eldridge Moores' Geoscience Education, Paper No. 316-11, GSA Annual Meeting, Denver, CO, September, 2016. (oral)
- Wyession, M. E., NGSS: The 2016 Election has Gone State by State, and the Winner is..., Paper No. 10-1, GSA Annual Meeting, Denver, CO, September, 2016. (invited oral)
- Wyession, M. E., Geoscience challenges of the state-by-state adoption or adaptation of the NGSS, Abstract ED23D-0846, at the 2016 Fall Meeting, AGU, San Francisco, Calif., Dec 12-16, 2016.
- Wyession, M. E., M. J. Pratt, F. Sy Tanjona Andriampenomanana, T. Rakotondraibe, A. Nyblade, G. I. Aleqabi, P. J. Shore, R. Tucker, D. A. Wiens, G. Rambolamana, The Lithospheric Structure of Madagascar, Abstract S32C-07, at the 2016 Fall Meeting, AGU, San Francisco, Calif., Dec 12-16, 2016. (oral)
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- Elling, R. P., C. A. Stein, S. Stein, J. Kley, G. R. Keller, and M. Wyession, The Midcontinent Rift: A Rift-LIP Hybrid, Paper No. 191-7, Geological Society of America Abstracts with Programs. Vol. 49, No. 6, doi: 10.1130/abs/2017AM-304904, 2017. (oral)

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