



# Association for Women Geoscientists Distinguished Lecturer Program

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**We offer ~100 lectures on 14 topic areas given by 42 professional Women in the Geosciences. Speakers and lecture titles are available on our [AWG website page](#).**

*The DLP encourages speakers to engage students, professionals, and educators in the insightful exchange of information, while also enhancing the professional growth of both the speaker and the audience she reaches. The DLP also helps promote and motivate young women to pursue research, government, or industry careers in geoscience by the example set by the success and experiences of women Distinguished Lecturers.*

Departments and organizations can receive up to \$800/year from DLP for speaker expenses. The DLP support can be used to cover any expenses related to the lecture. This may include lodging, flights, or car rental. Contact [dlp@awg.org](mailto:dlp@awg.org) for more information on how to arrange for an In-Person DLP speaker.

DLP talks can also be done as zoom webinars or zoom meetings and associated expenses for these presentations can also be funded by DLP. The webinar option offers a platform that supports large presentations where the host and panelists can share video, audio, and screens. The zoom meeting option supports interactive sessions where all participants can share video, audio, and screens. Contact [dlp@awg.org](mailto:dlp@awg.org) if you are interested in hosting a speaker using one of our zoom options.

## Steps to Fund a DLP Lecture

All academic institutions, including University and College departments or science clubs/organizations, as well as State Geological Surveys, are invited to apply for funding to host a lecturer from the AWG DLP List.

- Organizations may request up to \$800 to fund the lecturer's visit and should provide details of the expected costs. Only one award is to be given for a speaker and/or any organization in one year. We will try to fund as many different speakers as possible.
- Funding covers the expenses of hosting an AWG lecturer at the institution. Honorariums are not included in the expenses.

Regular and normal travel expenses (airfare, other transportation, meals, lodging) are all appropriate costs.

- Funding decisions are the prerogative of the DLP Committee.
- For questions, please contact the DLP Committee ([dlp@awg.org](mailto:dlp@awg.org)).
- Please follow the following procedure to fund an in-person visit or for expenses associated with a zoom presentation:

- o Contact a lecturer from the list (Please use either the list in the following pages of this pdf or the topic listings on the DLP website at:

- <https://www.awg.org/page/AWGDistinguishedLectureProgram>. Settle on a tentative date for the talk, and determine the transportation, lodging, and incidental costs of the visit.

- o Complete the Request for Speaker form:

- [https://cdn.ymaws.com/www.awg.org/resource/resmgr/dlp/awg\\_dlp\\_form2024.pdf](https://cdn.ymaws.com/www.awg.org/resource/resmgr/dlp/awg_dlp_form2024.pdf). Email this form to the DLP Committee at [dlp@awg.org](mailto:dlp@awg.org). Allow time for processing.

- After the lecture, please email a report of the event and your receipts for event expenses to [dlp@awg.org](mailto:dlp@awg.org) using the Speaker Report Form:

- [https://cdn.ymaws.com/www.awg.org/resource/resmgr/dlp/awg\\_dlp\\_speakerreport\\_form\\_2.pdf](https://cdn.ymaws.com/www.awg.org/resource/resmgr/dlp/awg_dlp_speakerreport_form_2.pdf).

- o On the Speaker Report form, please make sure the following information is included:

- Include itemized expenses, payee name and associated payee addresses. Multiple payees and their addresses can be accommodated. However, the AWGF Treasurer just needs to know these data and please be as specific as possible so the reimbursement can be readily processed!

- Include the number of people in attendance and % women.
  - Describe the audience (e.g., students; professionals; public) and interactions between the lecturer and audience.
  - Provide copies of flyers, posters, or other seminar advertising.
  - A photograph from the lecture would be appreciated!!
- After receipt of the Speaker Report form and the associated event receipts, the DLP chair will send a Request for Reimbursement form to the AWG Foundation Treasurer. Please allow up to 30 days for a reimbursement to be mailed to the relevant Speaker and/or organization.

## DLP MAIN LECTURE TOPICS

\* indicates zoom lecture possible

### Atmospheric Studies Lecture List

- Dust Storms and Red Tides\* - Speaker is Paytan, Adina; University of Calif. Santa Cruz, California [apaytan@ucsc.edu](mailto:apaytan@ucsc.edu)
- Air Pollution in Asia: Some Hidden Sources\* - Speaker is Saikawa, Eri; Emory University, Georgia [eri.saikawa@emory.edu](mailto:eri.saikawa@emory.edu)
- Fires and Their Impacts: From Household Burning to Wildfires\* - Speaker is Wiedinmyer, Christine; Director, UCAR Community Programs, University Corporation for Atmospheric Research (UCAR) Boulder, CO [christinew@ucar.edu](mailto:christinew@ucar.edu)

### Climate Change Lecture List

- Climate Change: What's Soil Got to Do With It?\* Speaker is Behre, Asmeret A.; University of Calif. Merced, California [aaberhe@ucmerced.edu](mailto:aaberhe@ucmerced.edu)
- From Micro to Macro: Ocean Surface Processes that Influence Climate Change\* - Speaker is Gremes-Cordero, Silvia; NOAA Stennis Space Center, Mississippi [silvia.gremes.cordero@noaa.gov](mailto:silvia.gremes.cordero@noaa.gov)
- Voices of Hurricane Maria: The Value of Connecting Oral History and Science\* - Speaker is Matias, Audeliz; SUNY Empire State University, New York [audeliz.matias@sunyempire.edu](mailto:audeliz.matias@sunyempire.edu)

- Understanding Climate Change: Seeing the Carbon Through the Trees\* - Speaker is McFarlane, Karis J.; Lawrence Livermore National Lab, California [mcfarlane3@llnl.gov](mailto:mcfarlane3@llnl.gov)
- Is Climate-Smart Agriculture Possible?\* - Speaker is Saikawa, Eri; Emory University, Georgia [eri.saikawa@emory.edu](mailto:eri.saikawa@emory.edu)
- Modern Coral Reefs Under Global Change: Lessons from Goldilocks and the Three Paradoxes (**Virtual Only**) - Speaker is Hallock-Muller, Pamela; University of South Florida [pmuller@usf.edu](mailto:pmuller@usf.edu)
- Cenozoic Trends in Shallow-Water Carbonate Production: Insight from Chemistry, Climate and Biology (**Virtual Only**) - Speaker is Hallock-Muller, Pamela; University of South Florida [pmuller@usf.edu](mailto:pmuller@usf.edu)
- Volcanic Islands of the Pacific and Atlantic: What Do the Galapagos, Hawaiian Islands, and the Canary Islands have in Common? - Speaker is Olson, Carolyn; US Geological Survey [colson@usgs.gov](mailto:colson@usgs.gov)
- Arctic and Antarctic Regions: Are These Polar Regions Sustainable?\* - Speaker is Olson, Carolyn; US Geological Survey [colson@usgs.gov](mailto:colson@usgs.gov)
- Effects of Hydrologic, Meteorologic, and Flash Drought on Agroecosystems: Comparisons of Historical and Recent Droughts \* - Speaker is Olson, Carolyn; US Geological Survey [colson@usgs.gov](mailto:colson@usgs.gov)
- Nature Based Solutions for Climate Mitigation - Wetland Reconstructions\* - Speaker is Paytan, Adina; University of California, Santa Cruz [apaytan@ucsc.edu](mailto:apaytan@ucsc.edu)
- Wetlands Restoration as a Nature Based Climate Solution\* - Speaker is Paytan, Adina; University of California, Santa Cruz [apaytan@ucsc.edu](mailto:apaytan@ucsc.edu)
- Managing Induced Seismicity Risk at Geologic Carbon Storage Sites \* - Speaker is Templeton, Dennise; Lawrence Livermore Nat. Lab [templeton4@llnl.gov](mailto:templeton4@llnl.gov)

## Deep Earth Lecture List

- A Geochemical Glimpse Into Hydrothermal Systems\* - Speaker is Barnes, Jamie D.; University of Texas at Austin, Texas [jdbarnes@jsg.utexas.edu](mailto:jdbarnes@jsg.utexas.edu)
- The Role of the Forearc in Volatile Cycling Through Subduction Zones\* - Speaker is Barnes, Jamie D.; University of Texas at Austin, Texas [jdbarnes@jsg.utexas.edu](mailto:jdbarnes@jsg.utexas.edu)
- If Not Plumes, Then What? \* - Speaker is Foulger, Gillian R. Durham; University, United Kingdom [g.r.foulger@durham.ac.uk](mailto:g.r.foulger@durham.ac.uk)

- Garnetites: Evidence for Fluid Processes in Subduction Mélange\*, - Speaker is Cruz-Uribe, Alicia; University of Maine [alicia.cruzuribe@maine.edu](mailto:alicia.cruzuribe@maine.edu)
- A Geological DVD: How Tourmaline Records and Reveals Information From Formation to Melting\* - Speaker is Dutrow, Barbara L.; Louisiana State University, Louisiana [dutrow@lsu.edu](mailto:dutrow@lsu.edu)
- Gemstones as Guides to the Earth's Evolution of the Crust and Mantle\* - Speaker is Dutrow, Barbara L.; Louisiana State Univ., Louisiana [dutrow@lsu.edu](mailto:dutrow@lsu.edu)
- Do Deep Mantle Plumes Exist?\* - Speaker is Foulger, Gillian R.; United Kingdom [g.r.foulger@durham.ac.uk](mailto:g.r.foulger@durham.ac.uk)
- Rates, Conditions, and Scales of Mass Transfer From the Mantle to the Crust\* - Speaker is Gordon, Stacia; University of Nevada, Reno [staciag@unr.edu](mailto:staciag@unr.edu)
- Deformation, Metamorphism, and Partial Melting in Continental Magmatic Arcs: Insight From Exhumed Metasedimentary Rocks of the North Cascades\* -Speaker is Gordon, Stacia; University of Nevada, Reno [staciag@unr.edu](mailto:staciag@unr.edu)
- New Mechanisms for Plate Tectonics, Continental Drift, and Lunar Drift\* - Speaker is Hofmeister, Anne; Washington University, Missouri [hofmeister@wustl.edu](mailto:hofmeister@wustl.edu)
- Core State, Formation, and Evolution\* - Speaker is Hofmeister, Anne; Washington University, Missouri [hofmeister@wustl.edu](mailto:hofmeister@wustl.edu)
- Partial Melting of UHP Eclogites, Sulu belt, China—P–T conditions, Fluid-melt Evolution, Deformation and Implications for Exhumation Dynamics\* - Speaker is Wang, Lu; China University of Geosciences [wanglu@cug.edu.cn](mailto:wanglu@cug.edu.cn)
- Melting the Mountains: Crustal Flow and Collapse\* - Speaker is Whitney, Donna; University of Minnesota [dwhitney@umn.edu](mailto:dwhitney@umn.edu)
- Subducting Oceans: the Metamorphic Record of Fluids in Subduction Zones\* - Speaker is Whitney, Donna; University of Minnesota [dwhitney@umn.edu](mailto:dwhitney@umn.edu)

## Education and Leadership Lecture List

- It Started With a Rock Collection: Charles Darwin, Geologist...\* - Speaker is Brandt, Danita; Michigan State University, Michigan [brandt@msu.edu](mailto:brandt@msu.edu)
- Geoconservation: Preserving Classic Outcrops, Resources, and Accessibility \*- Speaker is Chan, Marjorie; University of Utah [marjorie.chan@utah.edu](mailto:marjorie.chan@utah.edu)
- Maria Graham: A 19th Century Pioneer in Earthquake Geology and Women in Science\* - Speaker is Ely, Lisa; Central Washington University [ely@Geology.cwu.EDU](mailto:ely@Geology.cwu.EDU)

- Existing Within a Majority Setting: Minorities Straddling the Great Divide\* - Speaker is Matias, Audeliz; SUNY Empire State University, New York [audeliz.matias@sunyempire.edu](mailto:audeliz.matias@sunyempire.edu)
- To Recruit a Diversity of Graduate Students, Use a Diversity of Criteria (**Virtual Only**) - Speaker is Muller, Pamela; University of South Florida, Florida [pmuller@usf.edu](mailto:pmuller@usf.edu)
- Linking One Woman's Geoscience Career to Gender Equity Progress\* - Speaker is Deb Hanneman; Whitehall Geogroup, Inc., Montana [whgeol@gmail.com](mailto:whgeol@gmail.com)
- Where Have All the Women Gone - Diversity in the Geosciences\* - Speaker is Paytan, Adina; University of Calif. Santa Cruz, California [apaytan@ucsc.edu](mailto:apaytan@ucsc.edu)
- The Science of Opportunity: How a Career in Science Will Change Your Life\* - Speaker is Proctor, Sian; South Mountain Community College, Arizona [sian.proctor@gmail.com](mailto:sian.proctor@gmail.com)
- Space2inspire: An Astronauts Perspective from Space\* - Speaker is Proctor, Sian; South Mountain Community College, Arizona [sian.proctor@gmail.com](mailto:sian.proctor@gmail.com)
- Geology and Leadership: Lessons from the Field\* - Speaker is Rossbacher, Lisa; Humboldt State Univ., California [Lisa.Rossbacher@humboldt.edu](mailto:Lisa.Rossbacher@humboldt.edu)
- Increasing Student Engagement through Service-learning in an Environmental Management Curriculum\* - Speaker is Walsh, Maud M.; Louisiana State University, Louisiana [evwals@lsu.edu](mailto:evwals@lsu.edu)
- Overcoming Imposter Syndrome\* - Speaker is Rao, Usha; St. Joseph's University [urao@sju.edu](mailto:urao@sju.edu)
- Navigating the Broken Rungs of the Career Ladder\* - Speaker is Rao, Usha; St. Joseph's University [urao@sju.edu](mailto:urao@sju.edu)
- The Role of Indigenous Knowledge and Traditional Practices in Modern Adaptation Strategies\* - Speaker is Sanghamitra Adhya; Department of Geography, Kalyani Mahavidyalaya, West Bengal, India [s2024adhya@gmail.com](mailto:s2024adhya@gmail.com)
- Case Studies of Successful, Low-Cost, and Scalable Community-Led DRR Initiatives\* - Speaker is Sanghamitra Adhya; Department of Geography, Kalyani Mahavidyalaya, West Bengal, India [s2024adhya@gmail.com](mailto:s2024adhya@gmail.com)
- The Challenges of Financing and Policy Implementation at the Local Level and How They are Being Overcome\* - Speaker is Sanghamitra Adhya; Department of Geography, Kalyani Mahavidyalaya, West Bengal, India [s2024adhya@gmail.com](mailto:s2024adhya@gmail.com)
- The Vital Role of Women's Leadership in Building Climate-Resilient Communities\* - Speaker is Sanghamitra Adhya; Department of Geography, Kalyani Mahavidyalaya, West Bengal, India [s2024adhya@gmail.com](mailto:s2024adhya@gmail.com)

## Energy and Policy Lecture List

- Using Nitrogen Isotopes to Evaluate Depositional Paleoenvironments \* - Speaker is Quan, Tracy; Oklahoma State University [tracy.quan@okstate.edu](mailto:tracy.quan@okstate.edu)
- Interpretation of Nitrogen Isotope Profiles in Petroleum Systems: Redox vs. Post-depositional Alteration\* - Speaker is Quan, Tracy; Oklahoma State University [tracy.quan@okstate.edu](mailto:tracy.quan@okstate.edu)
- Chemical Characterization of Produced Water Using NMR Analysis\* - Speaker is Quan, Tracy; Oklahoma State University [tracy.quan@okstate.edu](mailto:tracy.quan@okstate.edu)
- Effectiveness of State Climate and Energy Policies in Reducing Power Sector CO2 Emissions\* - Speaker is Saikawa, Eri; Emory University, Georgia [eri.saikawa@emory.edu](mailto:eri.saikawa@emory.edu)
- The Relevance of Geophysics during the Energy Transition\* - Speaker is Rauch, Marianne; TGS Texas [marianne.rauch@tgs.com](mailto:marianne.rauch@tgs.com)
- Big Plans, Little Town: Arlington, Vermont Goes for Net 0: How a small town is tracking its C output and sequestration to achieve net 0 by next year, 2027 **(Virtual Only)** – Speaker is Holmes, Mary Anne; Retired Geologist [mholmes2@unl.edu](mailto:mholmes2@unl.edu)

## Geobiology and Paleobiology Lecture List

- The Trouble With Trilobites (Trilobite Extinction)\* - Speaker is Brandt, Danita; Michigan State University, Michigan [brandt@msu.edu](mailto:brandt@msu.edu)
- One Hundred Mammoths in a Hot Tub - Speaker is Dutrow, Barbara L.; Louisiana State University, Louisiana [dutrow@lsu.edu](mailto:dutrow@lsu.edu)
- The Rise and Early Evolution of Animals: Where Do We Stand From the Trace Fossil Perspective - Speaker is Mangano, Gabriela; University of Saskatchewan, Canada [gabriela.mangano@usask.ca](mailto:gabriela.mangano@usask.ca)
- The Hidden Ecology of the Burgess Shale-Type Lagerstätten - Speaker is Mangano, Gabriela; University of Saskatchewan, Canada [gabriela.mangano@usask.ca](mailto:gabriela.mangano@usask.ca)
- Is the Cambrian Explosion “Real”? Clues From the Trace Fossil Record - Speaker is Mangano, Gabriela; University of Saskatchewan, Canada [gabriela.mangano@usask.ca](mailto:gabriela.mangano@usask.ca)
- Reconstructing Life History: A Perspective From the Trace Fossil Record - Speaker is Mangano, Gabriela; University of Saskatchewan, Canada [gabriela.mangano@usask.ca](mailto:gabriela.mangano@usask.ca)

- Modern Coral Reefs Under Global Change: Lessons from Goldilocks and the Three Paradoxes **(Virtual Only)** - Speaker is Hallock-Muller, Pamela; University of South Florida [pmuller@usf.edu](mailto:pmuller@usf.edu)
- Cenozoic Trends in Shallow-Water Carbonate Production: Insight from Chemistry, Climate and Biology **(Virtual Only)** - Speaker is Hallock-Muller, Pamela; University of South Florida [pmuller@usf.edu](mailto:pmuller@usf.edu)
- Understanding Life in the Slow-Lane, the Dominant Pace of Life on the Planet\* - Speaker is Newman, Dianne; CalTech, California [dkn@caltech.edu](mailto:dkn@caltech.edu)
- Roles for Redox-Active 'Antibiotics' in Energy Conservation and Nutrient Acquisition\* - Speaker is Newman, Dianne; CalTech, California [dkn@caltech.edu](mailto:dkn@caltech.edu)
- Early (Archean) Life on Earth: The Rock Record\* - Speaker is Walsh, Maud M.; Louisiana State University, Louisiana [evwals@lsu.edu](mailto:evwals@lsu.edu)

## Geochemistry Lecture List

- Sulfur: The Final Frontier\* - Speaker is Cruz-Uribe, Alicia; University of Maine [alicia.cruzuribe@maine.edu](mailto:alicia.cruzuribe@maine.edu)
- Laser Ablation Fast-Mapping: a New Way of Looking at Geochemistry and Geochronology\* - Speaker is Cruz-Uribe, Alicia; University of Maine [alicia.cruzuribe@maine.edu](mailto:alicia.cruzuribe@maine.edu)
- Prospects and Challenges for In-Situ Beta Decay Geochronology\*- Speaker is Cruz-Uribe, Alicia; University of Maine [alicia.cruzuribe@maine.edu](mailto:alicia.cruzuribe@maine.edu)
- Novel Methods for the Bioremediation of Industrial Dye Pollution\* - Speaker is Rao, Usha; St. Joseph's University, Pennsylvania [urao@sju.edu](mailto:urao@sju.edu)
- Chemical Characterization of Produced Water Using NMR Analysis\* - Speaker is Quan, Tracy; Oklahoma State University [tracy.quan@okstate.edu](mailto:tracy.quan@okstate.edu)
- Partial Melting of UHP Eclogites, Sulu Belt, China—P–T Conditions, Fluid-Melt Evolution, Deformation and Implications for Exhumation Dynamics\* - Speaker is Wang, Lu; China University of Geosciences, Wuhan, China [wanglu@cug.edu.cn](mailto:wanglu@cug.edu.cn)
- Health Risks Related to Toxic Metal Exposure and Nutrient Deficiency Due to Primary Rice Diet\* - Speaker is Schilling, Kathrin; Columbia Mailman School of Public Health, NY [ks3759@cumc.columbia.edu](mailto:ks3759@cumc.columbia.edu)

- Gold Mining in the Black Hills, South Dakota: Assessing the Health Risk for the Local Communities\* Speaker is Schilling, Kathrin; Columbia Mailman School of Public Health, NY [ks3759@cumc.columbia.edu](mailto:ks3759@cumc.columbia.edu)
- Novel Methods for the Bioremediation of Industrial Dye Pollution\* - Speaker is Rao, Usha; St. Joseph's University [urao@sju.edu](mailto:urao@sju.edu)

## GeoHealth Lecture List

- Naturally-Occurring Asbestos and Increased Urbanization in Southern Nevada: Impacts on Public Health (Virtual only) - Speaker is Brenda Buck; University of Nevada, Las Vegas [buckb@unlv.nevada.edu](mailto:buckb@unlv.nevada.edu)
- Possible Roles of Permafrost Melting, Atmospheric Transport, and Solar Irradiance in the Development of Major Coronavirus and Influenza Pandemics\* - Speaker is Hofmeister, Anne; Washington University, Missouri [hofmeister@wustl.edu](mailto:hofmeister@wustl.edu)
- Air Pollution in Asia: Some Hidden Sources\* - Speaker is Saikawa, Eri; Emory University, Georgia [eri.saikawa@emory.edu](mailto:eri.saikawa@emory.edu)
- Health Risks Related to Toxic Metal Exposure and Nutrient Deficiency Due to Primary Rice Diet\* - Speaker is Schilling, Kathrin; Columbia Mailman School of Public Health, NY [ks3759@cumc.columbia.edu](mailto:ks3759@cumc.columbia.edu)
- Exposure Assessment and Disease Detection: How Metal Stable Isotopes Offer Unique Insights\* - Speaker is Schilling, Kathrin; Columbia Mailman School of Public Health, NY [ks3759@cumc.columbia.edu](mailto:ks3759@cumc.columbia.edu)
- Gold Mining in the Black Hills, South Dakota: Assessing the Health Risk for the Local Communities\* -Speaker is Schilling, Kathrin; Columbia Mailman School of Public Health, NY [ks3759@cumc.columbia.edu](mailto:ks3759@cumc.columbia.edu)
- Novel Methods for the Bioremediation of Industrial Dye Pollution\* - Speaker is Rao, Usha; St. Joseph's University [urao@sju.edu](mailto:urao@sju.edu)

## Natural Hazards Lecture List

- The Great Subduction Earthquake-Mysteries Revealed\* - Speaker is Alfsen, Shiela; Portland State University [shealf@viclink.com](mailto:shealf@viclink.com)
- Following the Footsteps of Charles Darwin: Using Geological and Historical Evidence to Assess Earthquake and Tsunami Hazards\* - Speaker is Ely, Lisa; Central Washington University, Washington [ely@cwu.edu](mailto:ely@cwu.edu)

- Naturally-Occurring Asbestos and Increased Urbanization in Southern Nevada: Impacts on Public Health (**Virtual only**) - Speaker is Buck, Brenda; University of Nevada, Las Vegas [buckb@unlv.nevada.edu](mailto:buckb@unlv.nevada.edu)
- Rebuilding After Tsunami Disaster: Case Studies from Japan\* - Speaker is Jovanelly, Tamie J.; Berry College, Georgia [tjovanelly@berry.edu](mailto:tjovanelly@berry.edu)
- The Top Ten Geological Wonders of Iceland - Speaker is Jovanelly, Tamie J.; Berry College, Georgia [tjovanelly@berry.edu](mailto:tjovanelly@berry.edu)

## Oceanography Lecture List

- In-Situ Data vs Satellite Observations: An Advantageous Competition\* - Speaker is Gremes-Cordero, Silvia; NOAA Stennis Space Center, Mississippi [silvia.gremes.cordero@noaa.gov](mailto:silvia.gremes.cordero@noaa.gov)
- Air-Sea Transfer Related to Climate Change\* - Speaker is Gremes-Cordero, Silvia; NOAA Stennis Space Center [silvia.gremes.cordero@noaa.gov](mailto:silvia.gremes.cordero@noaa.gov)
- Seismic Induced Underwater Landslides in Lake Champlain, VT\* - Speaker is Manley, Pat; Middlebury College, Vermont [manley@middlebury.edu](mailto:manley@middlebury.edu)
- Corals on Acid - the Impact of Ocean Acidification on Coral Reefs\* - Speaker is Paytan, Adina; University of Calif. Santa Cruz, California [apaytan@ucsc.edu](mailto:apaytan@ucsc.edu)
- North Atlantic Sediment Drifts\* - Speaker is Manley, Pat; Middlebury College, Vermont [manley@middlebury.edu](mailto:manley@middlebury.edu)

## Physics of the Earth Lecture Listing

- Seismic Tomography in Practice: The Inside Story\* - Speaker is Foulger, Gillian R.; Durham University, United Kingdom [g.r.foulger@durham.ac.uk](mailto:g.r.foulger@durham.ac.uk)
- The Fate of Platinum Group Elements During Mantle Melting\* - Speaker is Holzheid, Astrid; Kiel University, Germany [AHOLZHEID@WUSTL.EDU](mailto:AHOLZHEID@WUSTL.EDU)
- Earthquakes or Slow-Slip Events? How We Use Laboratory Experiments to Link Material Properties to Slip Dynamics\* - Speaker is Reber, Jacqueline; Iowa State University, Iowa [jreber@iastate.edu](mailto:jreber@iastate.edu)

## Planets and Space Lecture List

- Red Rocks from Earth to Mars\* - Speaker is Chan, Marjorie; University of Utah, Utah [marjorie.chan@utah.edu](mailto:marjorie.chan@utah.edu)

- From Proto-Earth to Modern Earth: Constraints from Experimental Petrology\* - Speaker is Holzheid, Astrid; Kiel University, Germany [AHOLZHEID@WUSTL.EDU](mailto:AHOLZHEID@WUSTL.EDU)
- Active Tectonics on Venus: Evidence from Coronae and Chasmata\* - Speaker is Jurdy, Donna M.; Northwestern Univ., Illinois [d-jurdy@northwestern.edu](mailto:d-jurdy@northwestern.edu)
- Mars Magnetic Mystery\* - Speaker is Jurdy, Donna M.; Northwestern Univ., Illinois [d-jurdy@northwestern.edu](mailto:d-jurdy@northwestern.edu)
- The Search for Extra Terrestrial Intelligence\* - Speaker is Jurdy, Donna M.; Northwestern Univ., Illinois [d-jurdy@northwestern.edu](mailto:d-jurdy@northwestern.edu)
- Space Geodesy: Using Impact Craters to Study the Geologic History of Venus and Mars \* - Speaker is Matias, Audeliz; SUNY Empire State University, New York [audeliz.matias@sunyempire.edu](mailto:audeliz.matias@sunyempire.edu)
- How Solving for Human Space Exploration Actually Solves for Challenges on Earth\* - Speaker is Proctor, Sian; South Mountain Community College, Arizona [sian.proctor@gmail.com](mailto:sian.proctor@gmail.com)
- Constraints on Orbital Evolution of the Moon and Planets from Symmetry and Conservation Laws\* - Speaker is Hofmeister, Anne; Washington University, Missouri [hofmeister@wustl.edu](mailto:hofmeister@wustl.edu)
- A Sedimentary Origin for Chondritic Meteorites: Implications for Planet Formation\* - Speaker is Hofmeister, Anne; Washington University, Missouri [hofmeister@wustl.edu](mailto:hofmeister@wustl.edu)
- Evolution of Lunar and Planetary Orbits: Constraints from Conservation Laws and Observations\* - Speaker is Hofmeister, Anne; Washington University, Missouri [hofmeister@wustl.edu](mailto:hofmeister@wustl.edu)

## Surficial Processes Lecture List

- Biogeochemical Implications of Soil Erosion\* - Speaker is Behre, Asmeret A.; University of Calif. Merced, California [aaberhe@ucmerced.edu](mailto:aaberhe@ucmerced.edu)
- Soils and Human Security\* - Speaker is Behre, Asmeret A.; University of Calif. Merced, California [aaberhe@ucmerced.edu](mailto:aaberhe@ucmerced.edu)
- Naturally-Occurring Asbestos and Increased Urbanization in Southern Nevada: Impacts on Public Health\* (**Virtual only**) - Speaker is Buck, Brenda; University of Nevada, Las Vegas Nevada [buckb@unlv.nevada.edu](mailto:buckb@unlv.nevada.edu)
- Eolian Explorations: Dunes, Diagenesis, and Deformation\* - Speaker is Chan, Marjorie; University of Utah, Utah [marjorie.chan@utah.edu](mailto:marjorie.chan@utah.edu)

- Geomorphic Signatures of Natural and Artificial Dams on River Landscapes: Does the River Give a Dam? - Speaker is Ely, Lisa; Central Washington University, Washington [ely@cwu.edu](mailto:ely@cwu.edu)
- Southwestern Montana Cenozoic Sequences, Paleosols, and Trace Fossils - Speaker is Hanneman, Deb; Whitehall GeoGroup, Inc., Montana [whgeol@gmail.com](mailto:whgeol@gmail.com)
- The Relationship of Global Water Quality, People, and Conservation Approaches - Speaker is Jovanelly, Tamie J.; Berry College, Georgia [tjovanelly@berry.edu](mailto:tjovanelly@berry.edu)
- What You Can Learn From Dating in Bars: Using Optically Stimulated Luminescence (OSL) to Investigate Fluvial Processes - Speaker is Keen-Zebert, Amanda; Desert Research Inst., Nevada [keenzebert@gmail.com](mailto:keenzebert@gmail.com)
- Impacts of Lithological Heterogeneity on Valley Evolution and Floodplain Wetland Preservation in the Eastern Interior of South Africa - Speaker is Keen-Zebert, Amanda; Desert Research Inst., Nevada [keenzebert@gmail.com](mailto:keenzebert@gmail.com)
- Forest Carbon Cycling: Insights Gained From Radiocarbon Measurements - Speaker is McFarlane, Karis J.; Lawrence Livermore National Lab, California [mcfarlane3@llnl.gov](mailto:mcfarlane3@llnl.gov)
- Soil: More Than What We Grow On - Speaker is McFarlane, Karis J.; Lawrence Livermore National Lab, California [mcfarlane3@llnl.gov](mailto:mcfarlane3@llnl.gov)
- People, Erosion, and Chemistry: Tracking the Effects of People on Watershed Processes in China and Cuba - Speaker is Schmidt, Amanda; Oberlin College, Ohio [aschmidt@oberlin.edu](mailto:aschmidt@oberlin.edu)
- Effects of Hydrologic, Meteorologic, and Flash Drought on Agroecosystems: Comparisons of Historical and Recent Droughts - Speaker is Olson, Carolyn; US Geological Survey [colson@usgs.gov](mailto:colson@usgs.gov)
- The Effects of Hurricane Maria on Erosion in Dominica and Puerto Rico - Speaker is Schmidt, Amanda; Oberlin College, Ohio [aschmidt@oberlin.edu](mailto:aschmidt@oberlin.edu)
- Seasonal Groundwater Storage in Monsoon Regions of Asia - Speaker is Schmidt, Amanda; Oberlin College, Ohio [aschmidt@oberlin.edu](mailto:aschmidt@oberlin.edu)
- The Dynamic Interaction of Life and Landscape - Speaker is Willenbring, Jane; Stanford University, California [jane.willenbring@gmail.com](mailto:jane.willenbring@gmail.com)
- The 'Dirt' on Soil Sustainability - Speaker is Willenbring, Jane; Stanford University, California [jane.willenbring@gmail.com](mailto:jane.willenbring@gmail.com)

## Tectonics Lecture List

- Assembling Oregon\* - Speaker is Alfsen, Shiela; Portland State University [sheilaalfsen@gmail.com](mailto:sheilaalfsen@gmail.com)
- How Gravitation and Heat Transfer Regulate Plate Tectonics and Earth's Thermal Evolution \* - Speaker is Hofmeister, Anne; Washington University, Missouri [hofmeister@wustl.edu](mailto:hofmeister@wustl.edu)
- New Mechanisms for Plate Tectonics, Continental Drift, and Lunar Drift\* - Speaker is Hofmeister, Anne; Washington University, Missouri [hofmeister@wustl.edu](mailto:hofmeister@wustl.edu)
- New Insights into the Tectonic Evolution of North America's Midcontinent Rift\* - Speaker is Stein, Carol; University of Illinois at Chicago, Illinois [cstein@uic.edu](mailto:cstein@uic.edu)
- Partial Melting of UHP Eclogites, Sulu Belt, China—P–T Conditions, Fluid-Melt Evolution, Deformation and Implications for Exhumation Dynamics\* - Speaker is Wang, Lu; China University of Geosciences [wanglu@cug.edu.cn](mailto:wanglu@cug.edu.cn)
- Melting the Mountains: Crustal Flow and Collapse\* - Speaker is Whitney, Donna; University of Minnesota [dwhitney@umn.edu](mailto:dwhitney@umn.edu)
- Forged Signatures: Tectonic Versus Climatic Control on Mountain Heights and Shapes\* - Speaker is Willenbring, Jane; Stanford University, California [willenbring@stanford.edu](mailto:willenbring@stanford.edu)
- Metamorphism and Deformation at the Slab-Mantle Interface in Subduction Zones \* - Speaker is Whitney, Donna; University of Minnesota [dwhitney@umn.edu](mailto:dwhitney@umn.edu)

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