



OPEN HOUSE

SATURDAY, OCTOBER 11, 2014
10AM to 4PM

LDEO.COLUMBIA.EDU/OPENHOUSE
#LamontOH

We gratefully acknowledge the generous support of our sponsors:

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Shuttle Bus Information

- **120th Street, Manhattan to LDEO:** Buses depart for the LDEO campus from 120th Street (between Amsterdam and Broadway, in front of Teachers College) in 15-minute increments beginning at 9:15 am until 1:15 pm.
- **LDEO to 120th Street:** Buses return to 120th street from LDEO in 15-minute increments beginning at 11:00 am and ending at 5:00 pm.
- **IBM Palisades Conference Center to/from LDEO:** Shuttle buses run continuously from 10:00 am to 4:00 pm, arriving and departing in front of the Geoscience Building at LDEO.

Lectures at Open House

Featuring Lamont-Doherty Earth Observatory and Columbia University Professors, Researchers and Scientists

MONELL BUILDING AUDITORIUM

- 10:45 am** **How We Can Achieve A Global Climate Change Accord,** Jeffrey D. Sachs
- 11:45 am** **Superstorm Sandy and Climate Change: Predictions and Responses, Short-term and Long,** Adam Sobel
- 12:45 pm** **Sewage Contamination and Water Quality in the Hudson River: The LDEO/Riverkeeper Partnership,** Andy Juhl
- 1:45 pm** **EarthScope Rolls off the Edge of North America: Imaging the Deep Earth,** James Gaherty
- 3:00 pm** **Career Panel: Insights from Lamont-Doherty Alumni**
Moderated by Dennis Adler, Ph.D. '82, Strategist, Clarin Road Asset Management, LLC
Zahid Aziz, Ph.D. '11, Project Engineer, Sadat Associates, Inc.
Jishu Deng, Ph.D. '97, Quantitative Researcher, JP Morgan
Ellen Kappel, Ph.D. '85, President, Geo Prose
Emma Rainforth, Ph.D. '05, Professor, Ramapo College of New Jersey

GARY C. COMER GEOCHEMISTRY BUILDING Seminar Room, 1st Floor

- 10:30 am** **Uplift, Flank Collapses and Mega-Tsunamis in the Cape Verde Archipelago,** Ricardo Ramalho
- 11:30 am** **Environmental Aspects of Gas Production by Hydraulic Fracturing,** Martin Stute
- 12:30 pm** **Life on the Margin - Floods, Earthquakes & Sea Level Rise at the World's Largest Delta,** Michael Steckler
- 1:30 pm** **Dust in the Wind - The Role of Dust in the Earth,** Gisela Winckler
- 2:30 pm** **How Weather Controls Climate,** Andrew Kruczkiewicz & Petro Ceccato

MARINE BIOLOGY/SEISMOLOGY BUILDING Seminar Room, 2nd Floor

- 10:30 am** **Does Anybody Really Know What Time it Is?,** James Davis
- 11:30 am** **Impacts of Warming on Migratory Songbirds,** Natalie Boelman
- 12:30 pm** **Exploding Volcanoes and Disappearing Glaciers: Hiking Up Kilimanjaro - Africa's Biggest Mountain,** Andrew Goodwillie
- 1:30 pm** **Earthquake Prediction in the Shadow of Chaos,** Bruce Shaw
- 2:30 pm** **How Weather Controls Climate,** Alexis Berg

GEOSCIENCE CONFERENCE ROOM 1st Floor EARTH2CLASS (E2C) Mini-Workshops

- 11:00 am** **Professional Development Opportunities for Teachers at Lamont & Elsewhere,** Michael J Passow
- 1:00 pm** **Use Graphic Novels to Understand Scientific Ocean Drilling,** Michael J Passow
- 2:00 pm** **American Meteorological Society Maury Project Modules,** Diane Soehl Lennon
- 3:00 pm** **Professional Development Opportunities for Teachers at Lamont & Elsewhere,** Michael J Passow

LAMONT-DOHERTY EARTH OBSERVATORY IS A UNIT OF THE EARTH INSTITUTE, COLUMBIA UNIVERSITY.

Lamont-Doherty Earth Observatory seeks fundamental knowledge about the origin, evolution and future of the natural world. Its scientists study the planet from its deepest interior to the outer reaches of its atmosphere, on every continent and in every ocean, providing a rational basis for the difficult choices facing humanity. Ideo.columbia.edu

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

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- Building
- Roadway
- Parking lot & pathway
- Handicap accessibility
- Restrooms
- Shuttle stop
- Ambulance
- Food/Beverage
- F1: Food Tent
- F2: Soup Shop
- F3: Ice Cream
- F4: Hot Dog Donna
- F5: Waffles and Dinges

EXPLORE THE EXHIBIT AREAS

- 1. WELCOME/GIFT SHOP TENT**
Kids Science Passports • Campus Walking Tour Sign-up • Alumni Table
- 2. EARTH2CLASS**
Mini-Workshops • Dendro Eco-Hike Sign-Up
- 3. CORE REPOSITORY**
Thousands of Cores, Rocks & Sediments
- 4. CENTER FOR INTERNATIONAL EARTH SCIENCE INFORMATION NETWORK**
Online Superfund • CHANGE Viewer • "CIESIN- blitz" mapping game
- 5. SEISMOLOGY, GEOLOGY & TECTONOPHYSICS**
5A - What's Up with Rockland Weather? • Make Your Own Earthquake
5B - Seismic Sounds (1st Fl.) • Rock Mechanics (102) • Real Time Earthquake Monitoring (201)
- 6. BIOLOGY & PALEO ENVIRONMENT**
Coral-based Ocean Reconstruction • Polar Bingo • Remote Underwater Exploration
Artistic Oceanographer
- 7. GEOCHEMISTRY**
7A - Race for Safe Water • What's in Your Well Water?
7B - Thermal Ionization Mass Spectrometer (122) • Secondary School Field Research
Biking, Breathing & Heartbeats • Smoke, Stoves & Sustainability • Shrinking Glaciers
- 8. VOLCANOES**
- 9. SEISMOGRAPH MUSEUM**
- 10. POSITIVE FEEDBACK: SALTY FOLK (105)**
Story of NY Harbor Through Eyes of Original Native New Yorkers (Oysters)
at Noon, 1:30, 3:00
- 11. OCEAN & CLIMATE PHYSICS**
New Visualization Lab • Salt Water Tasting • Pan Evaporation Experiment • Oceanographic
Instruments • Atmospheric Chemistry • Thermohaline Circulation
- 12. ACADEMIC RESOURCES (Lobby) and SCIENCE LECTURES (Auditorium)**
- 13. INTERNATIONAL RESEARCH INSTITUTE FOR CLIMATE & SOCIETY /
AGRICULTURE & FOOD SECURITY CENTER**
Farmers Game at 11:15, 12:15 • Disaster Manager Game at 1:15, 2:15 • Photos from the Field
- 14. MARINE GEOLOGY & GEOPHYSICS/ OFFICE OF MARINE OPERATIONS**
Mantle Plumes • Arctic Sea Ice • Eco-Chains • Life in Antarctica! • Why Studying
Greenland Matters • Using Sound Waves to Image • R/V Langseth's 2014 US
Atlantic East Coast Science Cruises • Gumby Suits
- 15. TREE-RING LABORATORY**
Tree-ring Samples and Field Photography
- 16. BATHTUB SCIENCE**
- 17. LDEO CHILD DEVELOPMENT CENTER**
Hands-on Activities by Bright Horizons Daycare Center