

## LAMONT-DOHERTY EARTH OBSERVATORY COLUMBIA CLIMATE SCHOOL



- 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 through 12:30 pm and from 1:30 pm ending at 4:00 pm.
- CRESTRON Parking Lot to/from LDEO: Shuttle buses run continuously from 10:00 am to 3:00 pm (Open House event parking closes at 3pm) arriving and departing in front of the Geoscience Conference Building at LDEO.

We gratefully acknowledge the generous support of our sponsors:





## LECTURES AT OPEN HOUSE

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

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Exhibit 12	11:00 am	Making Waves - Lamont's Contributions to Seafloor Mapping: Past, Present, and Future, Vicki Ferrini, Sheila Cáceres, Tinah Martin
MONELL BUILDING AUDITORIUM	12:00 pm	Air Pollution and Climate Change Impacts, Daniel Westervelt
	1:00 pm	The Impact of Micro- & Nano-Plastics and Sustainable Solutions, Beizhan Yan
	2:00 pm	Research from the Field, Einat Lev, Folarin Kolawole, Nicolas Young
Exhibit 7	11:30 am	Geologic Time - Time is deep — How do we know?, Alberto Malinverno
	12:30 pm	Citizen Science to Track Child Exposure to Lead on Three Continents, Lex van Geen
GARY C. COMER GEOCHEMISTRY BUILDING	1:30 pm	Black Holes, Gravitational Lenses, and Red Shifts: Geodesy Weaves Einstein's General Relativity into Daily Life, Jim Davis
Seminar Room, 1st Floor	2:30 pm	Geoscience Education Research: How People Think and Learn about the Earth and Environment, Kim Kastens
Exhibit 5B	11:30 am	NJ Jolts NYC: The Recent Magnitude 4.8 Earthquake in Tewksbury Township, NJ LDEO Seismologists
SEISMOLOGY SEMINAR ROOM 2nd Floor	12:30 pm	Is Bangladesh Doomed to Drown? Sea Level Rise Versus Dynamics of the World's Largest Delta, Michael Steckler
2110 1 1001	1:30 pm	Lamont's Role in Studying Mid-Ocean Ridges: From Faults and Volcanics to Continental Flooding Events, Roger Buck
	10.00	Forth Oolean Drivering December 1 Vary Oleans and Michael December 1
Exhibit 2	10:00 am	Earth2Class: Bringing Research to Your Classroom, Michael Passow
	2.00 nm	Farth2Class: Bringing Research to Your Classroom, Michael Passow

GEOSCIENCE CONFERENCE ROOM, 1st Floor 2:00 pm Earth2Class: Bringing Research to Your Classroom, Michael Passow

**LAMONT-DOHERTY** 

(same talk as 10am)

**OPENHOUSE.LDEO.COLUMBIA.EDU** #LamontRocks



LAMONT-DOHERTY EARTH OBSERVATORY

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## **EXPLORE THE EXHIBIT AREAS**

- 1. WELCOME | GIFT SHOP TENT
  - Kids' Scavenger Hunt Programs Geology Tour Sign-ups Gift Shop
- 2. EARTH2CLASS Mini-Workshops (schedule on back) Eco Dendro-Hike Tour Signups
- **3. CORE REPOSITORY** Thousands of Cores, Rocks & Sediments
- 4. CENTER FOR INTERNATIONAL EARTH SCIENCE INFORMATION NETWORK
- 5. SEISMOLOGY, GEOLOGY & TECTONOPHYSICS
  - **5A:** Rock Mechanics Tools of the Trade: Ocean Bottom Seismology
  - 5B: Sea Level Change: Back to the Future Sounds of Seismology! Tidal Forcing & Tiny Earthquakes
- **6. BIOLOGY & PALEO ENVIRONMENT** Carbon Secrets: Exploring Soil and Forest Carbon at Lamont Sanctuary Forest Chromatography Bookmarks Climate Change Research at the Arctic Long-term Ecological Research Station OLO BE TALOHA Coastal Marshes of New York...What is Their Value, and How Do We Save Them? Greenland's Amazing Fossils Below the Ice Sheet Hudson River Glacial Clay Left by the Last Ice Age Let's Party in a Puddle!
- 7. GEOCHEMISTRY | EARTH SCIENCE LECTURES
  - **7A:** Soil & Paint Lead Sampling Marine Life Under Threat from Plastic Pollution Race for safe water Groundwater A Precious Resource
  - **7B:** Space Rocks! Secondary School Field Research Program Interactive Exhibits on Paleo-CO2 and Climate and Air Pollution Ocean Nutrients and Biology Experience Life as a Scientist onboard a Research Vessel Where is the Source? Pre-Contact Quarries in the Metropolitan Area Earth Science Lectures (schedule on back)
- 8. VOLCANOES | LAVA FLOWS
- 9. OCEAN & CLIMATE PHYSICS

Warming Stripes and CO2 • Hurricanes • Rotating Tank • Cloud in a Bottle • CO2 Absorption • Absorption of Radiation by Carbon Dioxide • Ocean Circulation • Saltwater Tasting • Atmospheric Chemistry • Air Quality

10. IN SEARCH OF EARTH'S SECRETS

JOIDES Resolution Research Vessel Pop-Up Science Experience

- 11. VOLCANO FILMS
- **12. EARTH SCIENCE LECTURES | ART EXHIBITS** Earth Science Lectures (schedule on back) Research As Art Exhibit Climate Disasters Inspired by Great Masters, Art Exhibit by Mary Tiegreen
- 13. MARINE & POLAR GEOPHYSICS

Sound in Water • Polar Explorer & Thwaites Explorer • Polar Climate & Our Polar CAP Ambassadors • Hudson River Field Station • Glacier Hauntologies • Bangladesh: Coping with Sea Level Rise and Tectonics • Ice Flows! • Satellite Radar Interferometry • Polar Expeditions • Polar Puzzles • IcePod

- **14. TREE-RING LAB** Tree-Ring Samples & Field Photography
- 15. BATHTUB SCIENCE
- **16. MARINE/LARGE PROGRAMS** In Search of Earth's Secrets GeoMapApp Ocean Mapping Marie Tharp exhibit Office of Marine Operation



A. 75 Years of Discovery B. Warming Stripes

C. Visit the Olmsted Perennial Garden