### DISCOVER EARTH SCIENCE

Saturday, October 19, 2024 10:00am-4:00pm

LAMONT-DOHERTY EARTH OBSERVATORY

## 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 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:



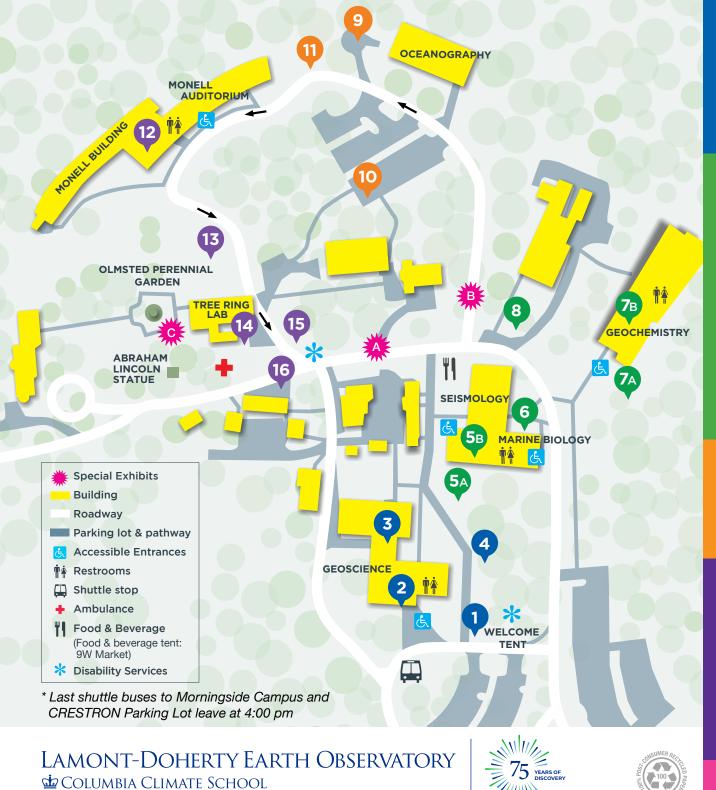
# LECTURES AT OPEN HOUSE

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

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
AUDITORIUM	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 GARY C. COMER GEOCHEMISTRY BUILDING Seminar Room, 1st Floor	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
	1:30 pm	Black Holes, Gravitational Lenses, and Red Shifts: Geodesy Weaves Einstein's General Relativity into Daily Life, Jim Davis
	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
	1:30 pm	Lamont's Role in Studying Mid-Ocean Ridges: From Faults and Volcanics to Continental Flooding Events, Roger Buck
Exhibit 2	10:00 am	Earth2Class: Bringing Research to Your Classroom, Michael Passow
	2:00 pm	Earth2Class: Bringing Research to Your Classroom, Michael Passow
GEOSCIENCE CONFERENCE	2.00 pm	(same talk as 10am)
ROOM, 1st Floor		
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EARTH OBSERVATORY

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



## LAMONT-DOHERTY EARTH OBSERVATORY Columbia Climate School



75 YEARS OF DISCOVERN

## **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
- Thousands of Cores, Rocks & Sediments **3. CORE REPOSITORY**
- 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

#### SPECIAL EXHIBITS

A. 75 Years of Discovery B. Warming Stripes C. Visit the Olmsted Perennial Garden