

**DUKE GEOLOGICAL LABORATORY**  
**55 Spongia Road**  
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**DUKE**

Our 54<sup>th</sup> Year

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**DUKELABS LECTURE TOPICS (by Dr. Charles Merguerian, PG)**

Abyss of Geological Time

Bedrock Geology and Tectonics of the World Trade Center

Bedrock Geology and Tectonics of California

Bedrock Geology and Tectonics of Connecticut

Bedrock Geology and Tectonics of New Jersey

Bedrock Geology and Tectonics of New York City and/or State

Bedrock Geology and Tectonics of the Palisades and the Newark Basin

Bedrock Geology and Tectonics of the Sierra Nevada Range, California

Catastrophic Glacial Flood through the Narrows, Staten Island-Brooklyn

Constructing the Harlem River Cable Tunnel, NYC

Constructing the Queens Water Tunnel #3, NYC

Constructing the Second Avenue Subway, NYC

Earthquakes, Faults and Faulting in New York City - Can it Happen Here?

Exploration and Geology of the Earth's Moon

Faults and Fault Zone Minerals of the Queens Water Tunnel, NYC

From Rocks to Ice - Geology of Central Park, NYC, NY

From Rocks to Ice - Geology of Inwood, Isham and Riverside Parks, NYC, NY

From Rocks to Ice - Geology of Long Island

From Rocks to Ice - Geology of New York City

From Rocks to Ice - Geology of Pelham Bay Park, Bronx, NY

From Rocks to Ice - Geology of Staten Island

From Rocks to Ice - Geology of the Bronx

From Rocks to Ice - Geology of the New York Botanical Garden, Bronx, NY

From Rocks to Ice - Shear Zones and Plunge Pools of the World Trade Center

Geology and Mineralogy of the Bear Mountain Area

Geology and Sedimentology of Ocean Basins

Geology of Hawaii and the Hawaiian Hot Spot Trace

Geology of the Grand Canyon and Northern Arizona

Geology of the Planets and Their Moons (Solar System or Individual Planetary Systems)

Geology of Volcanic- and Plutonic Igneous Rock Constructs

History of Geological Sciences

History of Gold Mining in California

History of Rocketry and Space Travel

History of the Space Race (1800s-1969) or (Post-WWI)

Megaconstruction Projects in New York City

Metamorphism and Metamorphic Rocks

Methods of Tunnel Construction in NYC

Mineral Mining - Western Connecticut

Mineralogy and Mining History of the Inwood Marble Formation, NYC, NY

Minerals and Iron Mine History of the Hudson Highlands

Name That Rock Seminars - Identifying Minerals and Rocks

Ophiolites (Mantle Slivers) in NYC

Ore Deposits and Their Relationship to Plate Tectonics

Paleontology and Fossils Through Time

Physical Properties of Minerals

Plate Tectonics and Mountain Building

Ten Million Thirsty People - Geohistory of the NYC Aqueduct System

Understanding Topographic, Geologic and Specialized Maps

Volcanic Hazards of the Cascade Volcanic Province, Western United States

Yellowstone Supervolcano - Geology of Yellowstone Park and the Grand Tetons

Most topics are covered in roughly one hour and are illustrated with Powerpoint slides and embedded movie clips. Our 2026 fees average \$450 US per lecture depending upon length and travel requirements. Special arrangements can be made to discuss topics of interest not listed above. Many topics can be expanded into seminars or lecture series and local field trips can be arranged upon request.