



Faculty from the LIU Post Earth and Environmental Science Department (Back row, from left): Dr. Mark Pires, Dr. Lillian Hess Tanguay, Dr. Scott Carlin, Dr. Margaret Boorstein, (front row) Dr. Patrick Kennelly, Dr. Victor DiVenere.

Faculty

Margaret F. Boorstein
 Chair, Department of Earth and Environmental Science;
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Teaching and Research Interests:
National Parks and Meteorology

Scott Carlin
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Teaching and Research Interests:
*Sustainable Communities, Natural Resources,
 and Environmental Politics*

Victor J. DiVenere
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Teaching and Research Interests:
*Climate Change, Environmental Geology,
 and Plate Tectonics*

Lillian Hess Tanguay
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 Professor of
 Geology
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Teaching and Research Interest: Sedimentology

Patrick J. Kennelly
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 Co-Director, Mobile GIS Web Applications Development
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Teaching and Research Interest:
Geographic Information Systems

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Teaching and Research Interests:
Geography of Africa and Environmental Management

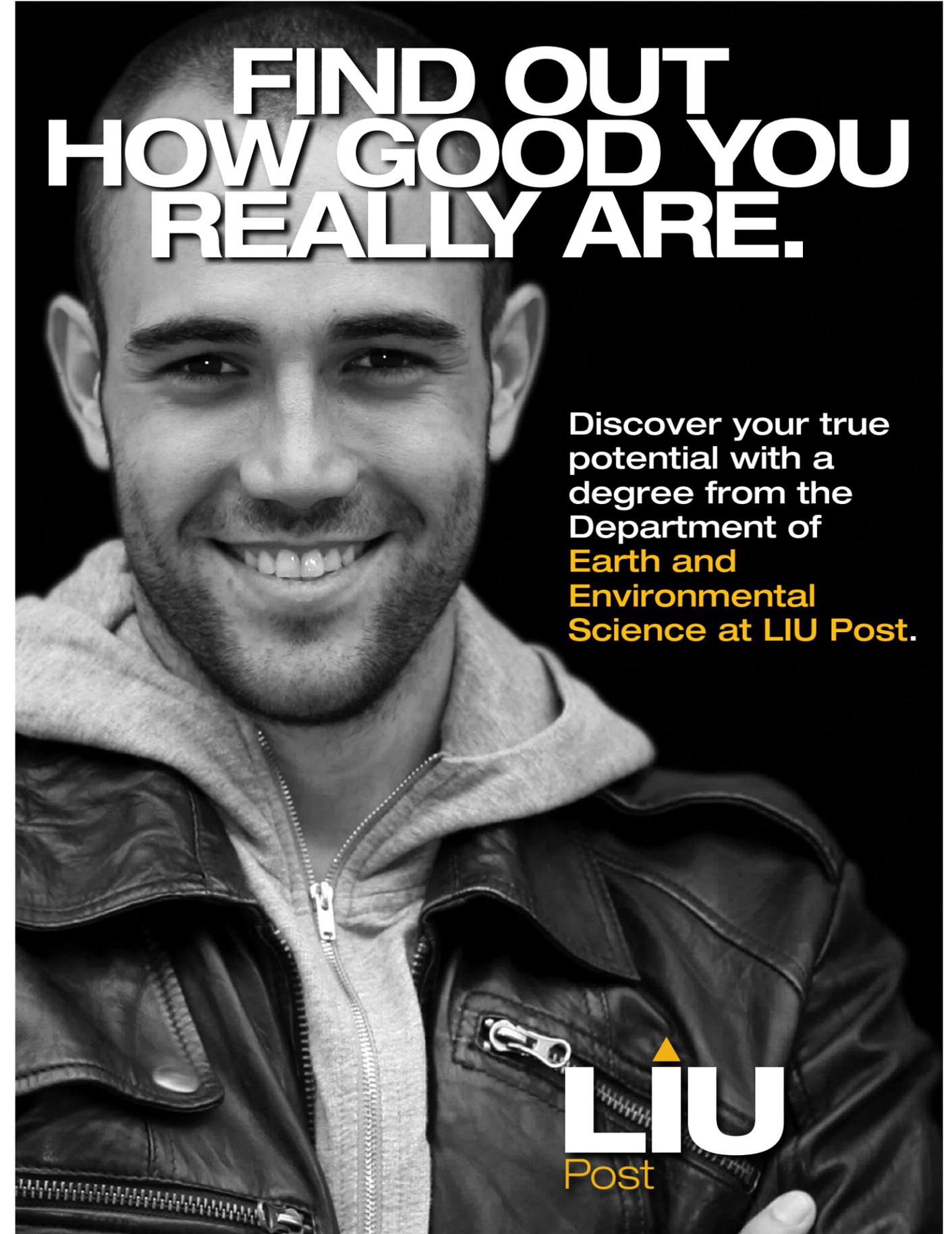


Department of Earth and Environmental Science

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FIND OUT HOW GOOD YOU REALLY ARE.

Discover your true
 potential with a
 degree from the
 Department of
**Earth and
 Environmental
 Science at LIU Post.**





Department of Earth and Environmental Science

Committed to sustainability and green careers, the LIU Post Department of Earth and Environmental Science offers undergraduate and graduate programs in geography, geology, environmental science, earth system science, mobile GIS applications development, environmental sustainability, and earth science education.

Our programs span the study of the Earth's makeup and physical processes, to human interactions with the environment and the flow of natural resources through urban and suburban settings.

Principal research and teaching interests of our faculty include sustainability, conservation of natural resources, meteorology, global climate change, geographic information systems, plate tectonics, sedimentology and coastal processes.

LIU Post students have gone on to work for governmental agencies, environmental consulting firms, and school districts across Long Island, as well as to advanced graduate studies at universities in the United States and abroad.

Undergraduate

B.A. in Geography

Geography examines the interactions between human beings and their environment as well as the spatial distribution of human and physical phenomena on Earth.

B.S. or B.A. in Geology

Geology is the science of the Earth, its composition, structure, internal and external processes, its water, mineral, and energy resources and natural hazards. It also encompasses the relationships between the solid Earth, the oceans, the atmosphere, and the biosphere as the Earth's land formations, climate and life have evolved to their present state. With a degree in Geology, all of these aspects of our physical world are examined and viewed with an eye toward the future of climate, sea level and resource availability.

B.A. in Interdisciplinary Studies: Earth System Science

Examines the interrelations of the atmosphere (air), hydrosphere (water, including oceans), lithosphere (solid earth), and biosphere (life), recognizing the influence of human beings as agents of change. Students will obtain a scientific understanding of earth systems through courses in geology, geography, earth science, biology and chemistry. He or she will also take advanced courses in these sciences as well as in the social sciences, including conservation, economics, and urban planning. Graduates will learn the interrelations of the physical realms of the Earth and be prepared to develop solutions to help human beings use the Earth and its resources more wisely.

B.S. in Environmental Science

Designed to fulfill the needs of students who are interested in the scientific and technical aspects of environmental science. The interdisciplinary nature of this program will provide students a broad perspective and an opportunity to delve into a specific discipline. The required basic science courses provide students with the science foundation and conceptual tools to work in a multidisciplinary setting on environmental problems.

B.S. in Early Childhood Education: Geography (Birth to Grade 2)

Provides prospective teachers with the necessary background and powers of analysis to help young children learn about the Earth and human-environment relations.

LIU Post is committed to green technology and installed a 10 kilowatt solar power generator at the university's Facilities Services building to lower electricity bills.



liu.edu/post/earth

B.S. in Adolescence Education: Earth Science (Grades 7 to 12)

Prepares students to teach earth science to children in grades 7 to 12. The course of study combines a well-rounded science background and analytical approaches with specific earth science content.

B.S. in Early Childhood Education (Birth to Grade 2) with Concentration in Earth System Science

Very young children have all sorts of questions about the world around them. This degree provides the knowledge and skills of analysis to answer those questions and instill evermore curiosity.

B.S. in Childhood Education (Grades 1 to 6) with Concentration in Earth System Science

Students will be provided with content and ways of thinking so they can teach elementary-age children about the wonders of the Earth.

B.S. in Childhood Education (Grades 1 to 6) with Concentration in Geography

Provides prospective teachers with the necessary background and powers of analysis to help elementary-age children learn about locations on the Earth and human-environment relations.



Graduate

M.S. in Environmental Sustainability (NEW!)

Designed to educate and train professionals to develop environmental sustainable solutions to problems specific to Long Island while considering the global context. The program emphasizes interdisciplinary problem solving, entwining social science and the natural sciences. The 33-credit program will be integrative, just like the natural environment. Themes include 1) the science of natural resource availability, exploitation, use, and wastes; 2) flow of those natural resources through our urban and suburban environments; 3) Geographic Information Systems (GIS) and other mapping technologies to track and manage resources and environmental change; and 4) bridging the science - policy divide through effective communication.

M.S. in Earth Science

Provides a comprehensive slate of coursework in the geological and earth sciences to prepare earth science teachers with a thorough foundation for the classroom, and knowledge for environmental leaders, environmental industry consultants, planners and others to manage natural resource concerns. The program will satisfy New York State certification requirements for graduates who are teachers who hold initial certification but need a master's degree to secure permanent teacher certification in the State of New York.



Graduate Earth Science major Alicia Mullaley interns with meteorologist Bill Korbelt at News 12.

M.S. in Adolescence Education: Earth Science

Provides coursework in geology and earth science, as well as in education to develop an understanding of the solid earth, the oceans, the atmosphere, and Earth's place in the cosmos, and the teaching credentials needed to teach earth science in middle school and high school.

Advanced Certificate in Mobile GIS Applications Development (Online)

Prepares student to create geography-based mobile applications for wireless handheld devices. Students will learn how to build apps that deliver information and services directly to a user's smartphone or tablet - in real-time - based on their geographic location. The online program helps students develop the necessary mastery of geographic information systems, computer programming and network technology.

www.liu.edu/online/gis

