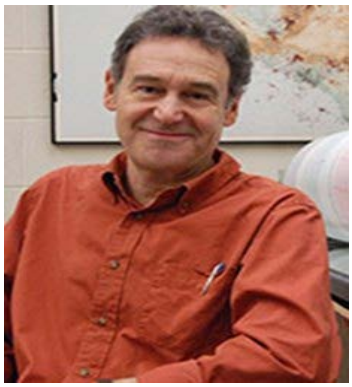
Great Decisions

Topic: "Climate Change and the Global Order"

Tuesday, March 10, 2020
Program: 1:15-2:45 pm



Michael Hamburger

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BIO SKETCH – Michael W. Hamburger

Dr. Michael W. Hamburger is a professor of Earth and Atmospheric Sciences at Indiana University, where he has served on the faculty since 1986. He received a B.A. in Environmental Sciences and Russian Studies at Wesleyan University and M.S. and Ph.D. degrees in geophysics at Cornell University. His research interests center on the relation of earthquakes to global geological processes, earthquake hazards, and volcanic activity, including field investigations in Alaska, the Philippines, the South Pacific, Central Asia, the Caucasus, and the central U.S. He has strong interests in the intersection of natural disasters, environmental challenges, and economic and social issues. Professor Hamburger has been a visiting researcher at the University of Nice (France), the UNAVCO Consortium, and the U.S. Geological Survey, and has served as Associate Dean and Associate Vice Provost at Indiana University. During the 2015-16 academic year, he served as a Jefferson Science Fellow with the U.S. Department of State, working on global science policy issues with the Office of Religion and Foreign Affairs, and as an Embassy Science Fellow with the U.S. Embassy in Kathmandu, Nepal. He leads Indiana University's involvement in the State Department's *Diplomacy*

Lab program, and in his course on “Environmental and Energy Diplomacy,” IU students serve as consultants to State Department offices and embassies on issues of environmental and energy policy. Since 2017, Hamburger has been one of the lead organizers of the science advocacy group *Concerned Scientists @ IU*.

Dr. Hamburger's major research interests are in seismotectonics, dynamics of earthquake and volcanic processes, and application of satellite geodetic measurements to geodynamic problems. He currently has active research programs in the subduction zone environment of the Philippine island arc, as well as in zones of continental extension in the Long Valley Caldera region of California and the intraplate environment of the central U.S. Major field research projects include: (1) analysis of earthquake distribution, focal mechanisms, and deformation patterns associated with subduction and intra-arc deformation in the Philippines; (2) study of crustal deformation using Global Positioning System (GPS) measurements near Taal volcano, Luzon, Philippines; (3) studies of seismicity and crustal deformation in the U.S. midcontinent (Wabash Valley seismic zone of southern Indiana and Illinois); (4) application of GPS measurements to study coupled tectonic and volcanic processes in the Long Valley Caldera of eastern California.

The Hamilton Lugar School wishes to acknowledge and honor the Miami, Delaware, Potawatomi, and Shawnee people, on whose ancestral homelands and resources Indiana University was built.