

# EARTH INITIATIVE 2100

The Munib and Angela Masri  
Institute of Energy and Natural  
Resources cordially invites you to

## EARTH INITIATIVE 2100

Wednesday, April 18, 2018

4:00 pm – 5:15 pm, West Hall,  
Auditorium A

### ABOUT DR. DAVID MOHRIG

David Mohrig is the John E. “Brick” Elliott Centennial Professor in Geological Sciences and the Jackson School of Geosciences Associate Dean for Research at The University of Texas at Austin. He holds an undergraduate degree from Pomona College and a MS and PhD from the University of Washington.

Before joining the UT faculty he was a Senior Research Geologist at Exxon Upstream Research Company and then a faculty member in the Department Earth, Atmospheric and Planetary Sciences at the Massachusetts Institute of Technology. He is a Fellow of the American Geophysical Union.

Dr. Mohrig’s research focuses on the application of transport processes to understanding the evolutions of landscapes (on Earth and Mars). He studies the behavior of topography generated at the interface between a granular material and a moving fluid from very short to very long time and space scales, with particular emphasis on processes controlling channel and coastline formation. Results from his studies of aeolian, riverine, coastal, and submarine landscapes have been published in over one hundred peer-reviewed journal articles.

### EARTH IN 2100: WATER, ENERGY, LAND USE, AND CLIMATE

Interactions between land, atmosphere, hydrosphere (surface and groundwater, oceans, ice sheets), and biosphere significantly impact Earth’s surface, the environment that we inhabit. I will discuss the co-development of observation networks and observation-driven models for land use, hydrology, and climate to address environmental change.

Particular attention will be given to arid regions that include much of Texas. The aim of this research is to deliver fundamental scientific understanding, practical methodologies, and applied science to inform decision-making by policy makers, government agencies, and the general public.

### PROGRAM

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4:00 pm – 5:15 pm, West Hall, Auditorium A

4:00 pm – 4:05 pm

Welcoming Remarks

*Dr. Alan Shihadeh, Dean of the Maroun Semaan  
Faculty of Engineering and Architecture, AUB*

4:05 pm – 4:55 pm

Earth in 2100: Water, Energy, Land Use, and Climate

*Dr. David Mohrig, the John E. “Brick” Elliott Centennial  
Professor in Geological Sciences, and the Jackson  
School of Geosciences Associate Dean for Research at  
The University of Texas at Austin*

4:55 pm – 5:15 pm

Q & A