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TTU professor picked for groundbreaking project

TTU — One of the world's leading publishers of science and health information has selected a Tennessee Tech University civil and environmental engineering professor to participate in a groundbreaking project on climate change.

Faisal Hossain was one of five editors chosen in a worldwide search by Elsevier aimed at finding the most qualified scientists to edit volumes in "Climate Vulnera-



Hossain

bility: Understanding and Addressing Threats to Essential Resources."

"The goal is to create some sort of a 'bible' for the 21st century on understanding from a local/regional standpoint how climate change stands to threaten local resources," Hos-

sain said. "There are five key themes — water, food, energy, human health and ecosystem function. My assignment is to produce a volume focusing on water vulnerability with about 30 chapters that is expected to have a shelf life more than that of textbooks or research books."

As the water topic editor, Hossain will analyze the vulnerability concept and determine the major threats to these

resources from climate and other social and environmental issues.

After these threats are identified, then he will compare the relative risk from natural- and human-caused climate change and suggest optimal strategies to mitigate problems or adapt to them.

Elsevier is a founding publisher of

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TTU: Professor in lead role

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global programs that provide free or low-cost access to science and health information in the developing world. The other editors chosen are experts from Purdue University, University of California at Berkley, University of Michigan and University of Colorado.

Hossain recently made international and national headlines for his study examining if large dams are altering extreme weather patterns.

He is currently working through a NASA New Investigator grant to examine satellite data about global precipitation that will improve the accuracy of weather predictions, particularly about floods, around the globe.
