Predicting failure of offshore oil hoses

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Roozbeh Dargazany awarded prestigious American Chemistry Society doctoral new investigator grant

Research into stopping the degradation and failure of offshore oil transportation systems has earned Roozbeh Dargazany of Michigan State University an American Chemistry Society (ACS) Petroleum Research Fund doctoral new investigator (DNI) grant.

Dargazany, an assistant professor in the Department of Civil and Environmental Engineering, was chosen to receive the prestigious ACS DNI new investigator award for his work on damage propagation in the polymeric matrix composite in extreme loading conditions. The study aims to predict the catastrophic failure of offshore oil transportation hoses.

Each year the ACS’s Petroleum Research Fund conducts a highly selective competition to award seed funding to top researchers with a track-record of producing innovative fundamental research. Established in 1954, its goal has been to support “advanced scientific education, and the careers of scientists, to aid in significantly increasing the world’s energy options.”

The award, which begins on July 1, provides funding of $110,000 over two years to support his work in MSU’s High-Performance Materials Group.

Dargazany joined MSU in 2014. His research interests blend computational mechanics, materials science, and biology to better understand and design soft materials with specific performances. He is particularly interested in soft materials with hierarchical structures such as elastomers, gels, fibers, MEMS, and biological tissues.
Prior to joining MSU, he worked as material specialist in Continental AG, a leading tire manufacturing company and as a postdoc at the Department of Material Science and Engineering at MIT.

To learn more about Dargazany’s research, visit MSU’s High-Performance Materials Group.

Related Website: Communications contact: Patricia Mroczek

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