

## MAYBE I JUST TIED MY SHOES TOO TIGHT:

### Imaging and computational modeling to understand skeletal injury and adaptation

#### About the event

Join IEEE EMBS Boston and WPI in welcoming **Dr. Karen Troy** for an insightful talk on the intersection of imaging and computational modeling in understanding skeletal injury and adaptation. Do not miss this opportunity to explore the cutting-edge biomechanical research that is shaping the future of orthopaedic healthcare, whole-body biomechanics, and quantitative image analysis. This event will be conducted in a **hybrid format**, welcoming attendees both in-person and virtually via Zoom. **Please use the QR code below for registration.**



#### About the speaker



**Dr. Karen Troy** is a Professor of Biomedical and Mechanical Engineering at Worcester Polytechnic Institute (WPI) in Worcester, MA. She currently serves as Associate Department Head for Biomedical and directs the Musculoskeletal Biomechanics Research Laboratory. Her research aims to understand how physical forces (such as those generated by the body during exercise and sports) interact with and change bone structure. Dr. Troy is an expert in orthopaedic and whole-body biomechanics, quantitative image analysis including computed tomography (QCT), and patient-specific finite element (FE) modeling. She collaborates with physicians and other clinicians, with the goal of preventing fractures and other types of bone injury in various populations such as growing children, athletes, older adults, and individuals with spinal cord injuries. Dr. Troy teaches engineering at the graduate and undergraduate levels and particularly enjoys working individually with students in her lab and on projects. Throughout her career, Dr. Troy has prioritized student-focused mentorship and advocated for diversity and support for scientists at all career levels.

ONLINE



REGISTER

OCTOBER 24, 2023  
6:00PM - 8:00 PM

In-person: WPI Seaport, 303 Congress St, 1st Floor, Boston, MA 02210

Online: via Zoom (you will receive a link upon completing registration)

IN-PERSON



REGISTER



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