MECHANICAL ENGINEERING SEMINAR

1. **Title : Bioinspired multifunctional materials with self-adaptable mechanical properties and metamaterials with adaptive energy absorption**

2. **Speaker : Professor Sung Hoon Kang**
   Johns Hopkins University

3. **Time : 2021. 11. 23 (Tue) 1:00-2:00 pm**

4. **Location : 301-1419**

   Zoom (Meeting ID: 819 3297 7948): https://snu-ac-kr.zoom.us/j/81932977948?pwd=UUJ0TGMwQyszNEJCMDhEaUdwOFpSdz09

5. **Abstract :** Adaptability is one of the hallmarks of living organisms that provide resilience to survive and flourish in dynamically changing environment. I will present our ongoing efforts about how we can realize materials and structures that can adapt to mechanical environment changes by adjusting their mechanical properties autonomously so that we can address some of the current challenges in engineering materials and structures used for load bearing and energy absorption.

6. **Bio :** Sung Hoon Kang is an Assistant Professor in the Department of Mechanical Engineering at Johns Hopkins University. He earned a Ph.D. degree in Applied Physics at Harvard University and M.S. and B.S. degrees in Materials Science and Engineering from MIT and Seoul National University, respectively. He has co-authored 51 peer-reviewed papers, has given over 130 presentations (including over 70 invited talks), and has six patents and three pending patents. His honors include 2021, 2020 Air Force Summer Faculty Fellowship, 2020 Johns Hopkins University Catalyst Award, 2019 Johns Hopkins University Whiting School of Engineering Research Lab Excellence Award, Invitee for 2019 China-America Frontiers of Engineering Symposium, FY 2018 Air Force Office of Scientific Research Young Investigator Program Award, and Invitee for 2016 National Academy of Engineering US Frontiers of Engineering Symposium. He served as the Chair, Vice Chair, Secretary, and Editor of ASME Technical Committee on Mechanics of Soft Materials.

7. **Inquiries : Professor Howon Lee (☏ 02-880-7117)**