

Online-Vortrag für die Oberstufe  
Freitag 20.01.2023 15:00 – 16:30 Uhr  
Freitag 20.01.2023, 3:00 p.m.  
Raum 213 des Technischen Gymnasiums Waldshut

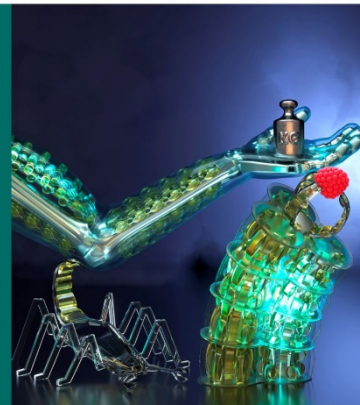
## Artificial muscles



Ellen Rumley, Ph.D. Student  
Robotic Materials, Max Planck Institute for Intelligent Systems, Stuttgart,  
Prof. Dr. Christoph Keplinger

Hydraulically Amplified Self-Healing  
Electrostatic (HASEL) actuators:  
working principles and potential  
applications in the real world.

*Ellen Harumi Rumley, PhD researcher*



**ROBOTIC MATERIALS**  
MAX PLANCK INSTITUTE FOR  
INTELLIGENT SYSTEMS



**Mechanical Engineering**  
University of Colorado Boulder

Artificial muscles are a rapidly advancing technology that promises to be useful in a myriad of future robotic and prosthetic applications. In this talk I will delve into the working principles of one such type called the electrostatic hydraulically-amplified self-healing electrostatic (HASEL) artificial muscle, and demonstrate its potential applications in the real world. I hope to see you there!

online conference for all participants of the upper school of the Hochrhein-Seminar.

Meeting access can be requested by e-mail: [goldau@hochrhein-seminar.de](mailto:goldau@hochrhein-seminar.de)

T. Hallmann / R. Goldau