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**8:45 – 9:00 am Welcome Remarks and Introduction**

*Prof. Frank Wise, Director, CCMR; with the Symposium Organizing Committee: Prof.*[*Lawrence Bonassar*](https://research.cornell.edu/researchers/lawrence-bonassar)*, Meinig School of Biomedical Engineering/Sibley School of Mechanical and Aerospace Engineering, and Prof.*[*Nikolaos Bouklas*](https://www.mae.cornell.edu/faculty-directory/nikolaos-bouklas-0)*, Sibley School of Mechanical and Aerospace Engineering, College of Engineering, Cornell University.*

**9:00 – 10 am Sproull Lecture – From Cells to Medical Adhesives.**

*Prof. David Mooney, Robert P. Pinkas Family Professor of Bioengineering; Core Faculty Member, Wyss Institute for Biologically Inspired Engineering, Harvard University.*

**10:00 – 10:20 am** **3D-bioprinting of living tissues for therapeutics.**

*Dr.*[*Dan Cohen*](https://www.linkedin.com/in/danlcohen/)*, CEO,*[*3DBio Corporation*](https://3dbiocorp.com/about-us/)

**10:20 – 10:40 am Bioinspired Sensors: New Design Rules and Fabrication Processes to Meet Demanding Contemporary Gas-Sensing Needs.**

*Dr.*[*Radislav Potyrailo*](https://www.linkedin.com/in/radislav-a-potyrailo-436a674/)*, Principal Scientist, Micro & Optoelectronics, Gas-Chem-Bio Sensors & Systems,* [*GE Research*](https://www.ge.com/research/research-engine/rd-facilities/niskayuna)

**10:40 – 10:50 am****Break**

**10:50 – 11:10 am Utilizing Soft Tissues as Therapeutics: Preclinical Overview of MOTYS, a Novel Placental Tissue Biologic.**

*Dr.* [*Carl Flannery*](https://www.linkedin.com/in/carl-flannery-2bb187b7/)*, Senior Director of Scientific Affairs, [Bioventus, LLC](https://www.bioventusglobal.com/our-company/about-bioventus/)*

**11:10 – 11:35 am Highly Biocompatible Zwitterionic Hydrogels and Elastomers.**

*Prof. [Shaoyi Jiang](https://www.cheme.washington.edu/facresearch/faculty/jiang.html), Robert S. Langer ’70 Family and Friends,*

*Meinig School of Biomedical Engineering, Cornell University*

**11:35 – 12:00 pm Overview of the NSF Program of Mechanics of Materials and Structures.**

*Dr. [Nakhiah Goulbourne](https://www.nsf.gov/staff/staff_bio.jsp?lan=ngoulbou&org=NSF&from_org=NSF), Program Director, Civil, Mechanical & Manufacturing Innovation, National Science Foundation*

**12:00 – 12:45 pm**  **Lunch Break**

**12:45 – 1:10 pm** **From the Beaker to an Engineering Platform:   2D Nano-Crystal Assemblies for Aerospace Applications.**

*Dr.*[*Richard Vaia*](https://www.af.mil/About-Us/Biographies/Display/Article/1733591/dr-richard-a-vaia/)*, Chief Scientist, Materials and Manufacturing Directorate,*[*Air Force Research Laboratory*](https://www.af.mil/)

**1:10 – 1:35 pm** **Magnetic Soft Robots: Fundamentals and Clinical Translation.**

[*Prof. Xuanhe Zhao*](https://meche.mit.edu/people/faculty/ZHAOX@MIT.EDU)*, Mechanical Engineering, MIT*

**1:35 – 2:00 pm** **Mechanics, Manufacture, and Applications of E-Tattoos.**

*Prof. Nanshu Lu, Aerospace Engineering & Engineering Mechanics, Biomedical Engineering, Texas Materials Institute, The University of Texas at Austin*

**2:00 – 2:25 pm** **The Functional Materials Beamline at CHESS: a New Resource for Diffraction Microscopy and In-Situ Process Characterization of Soft Materials and Composites at the Micron Scale.**

*Dr. Arthur Woll, Director, The Materials Solutions Network at CHESS (MSN-C), Cornell University*

**2:25 – 2:40 pm Wrap up**

**2:45 – 3:45 pm Poster Session**