

PROGRAM

2nd Northwestern/Muenster Symposium on Smart Materials

August 30, 2023

Pancoe Abbott Auditorium

- 8:15 am Breakfast
- 8:45 am Welcome/Opening remarks
Nathan Gianneschi (NU)
Matthew Grayson (NU)
- 8:50 am Opening remarks
Cristian Strassert (Muenster)

I. SMART MATERIALS IN BIOLOGY

- 8:55 am – 9:15 am **Nathan Gianneschi (NU)**, *Biomimetic Materials as Therapeutics*
- 9:20 am – 9:40 am **Björn Braunschweig (Muenster)**, *Remote Control and Dynamics of Amphiphiles at Soft Matter Interfaces*
- 9:45 am – 10:05 am **SonBinh Nguyen (NU)**, *Strategies for the Assembly of Hybrid Materials in Drug-Delivery Applications*
- 10:10 am – 10:25 am BREAK
- 10:25 am – 10:45 am **Guillermo Ameer (NU)**, *Regenerative Biomaterials and Medical Devices*
- 10:50 am – 11:10 am **Bart Jan Ravoo (Muenster)**, *Molecular design of photoswitches for the responsive self-assembly of soft matter*
- 11:15 am – 1:25 pm BREAK
- 1:25 pm – 1:45 pm **Evan Scott (NU)**, *A novel multi-drug delivery platform for facile surface engineering and immune modulation*
- 1:50 pm – 2:10 pm **Seraphine Wegner (Muenster)**, *How far do principles of self-assembly apply to cells & multicellular structures?*
- 2:15 pm – 2:35 pm **Shana Kelley (NU)**, *Biohybrid Materials and Devices for Continuous Monitoring*
- 2:40 pm – 3:15 pm BREAK
- 3:20 pm – 3:40 pm **Jens Müller (Muenster)**, *Metal-Modified DNA – Introducing Metal-Based Functionality into Nucleic Acids*
- 3:45 pm – 4:05 pm **Sam Stupp (NU)**, *Robotic and Bioactive Smart Materials*
- 4:15 pm – 5:45 pm POSTER SESSION, 2nd floor Pancoe/Coralie

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I. SMART MATERIALS IN BIOLOGY (continued)

- 8:55 am – 9:15 am **Ryan Truby (NU)**, *From Monomer to Machine: Materializing Autonomy in Soft Robots*
- 9:20 am – 9:40 am **Cécile Chazot (NU)**, *Unravelling the governing factors for cholesteric liquid crystal self-assembly of polysaccharides*
- 9:45 am – 10:05 am **Neha Kamat (NU)**, *Building with biological membranes to harness membrane protein dynamics*
- 10:10 am – 10:25 am BREAK

II. SMART MATERIALS IN CHEMISTRY

- 10:25 am – 10:45 am **Cristian Strassert (Muenster)**, *Exploiting the heavy ligand effect in photofunctional coordination compounds*
- 10:50 am – 11:10 am **Matthew Grayson (NU)**, *Bi-exponential relaxations: Physics or fudge? The saturation relaxation test*
- 11:15 pm – 12:55 pm BREAK
- 12:55 pm – 1:15 pm **Ursula Wurstbauer (Muenster)**, *Smart 2D materials on demand: twisting, stacking & defect engineering*
- 1:20 pm – 1:40 pm **Todd Gingrich (NU)**, *Current reversal in autonomous catenane motors*
- 1:45 pm – 2:05 pm **Franz Geiger (NU)**, *Photonic Electrochemistry*
- 2:10 pm – 2:30 pm **Dr. Bin Chen, Ted Sargent Group (NU)**, *Perovskite materials for highly efficient solar cells*
- 2:35 pm – 2:50 pm BREAK
- 2:50 pm – 3:10 pm **Julia Kalow (NU)**, *Reversibly photocontrolled polymer networks through photoswitchable dynamic covalent bonds*
- 3:15 pm – 3:35 pm **Olga Garcia (Muenster)**, *Non-covalent interactions as tool-kit for synthesis and supramolecular catalysis*

3:40 pm – 4:00 pm **Linsey Seitz (NU)**, *Characterizing Dynamic Materials for Sustainable Electrocatalytic Technologies*

4:15 pm – 5:45 pm POSTER SESSION, 2nd floor Pancoe/Coralie