CNM Workshop 1: Nanomaterials Interfaces: From Fundamentals to **Applications**

Thursday, April 20, Morning

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9:00 – 9:10	Elena Rozhkova (Argonne National Laboratory) Introduction
9:10 – 9:40	Nicholas Kotov (University of Michigan) Chirality-complexity Relations for Nanostructures
9:40 – 10:10	Phillip Messersmith (University of California, Berkeley) Biologically Inspired Strategies for Interfacial Control in Nanomaterials
10:10 – 10:40	Bozhi Tian (University of Chicago) Non-genetic Biological Modulation: Harnessing the Power of Semiconductors at All Length Scales
10:40 – 11:00	Break and Networking
11:00 – 11:30	Mats Fahlman (Linkoping University) Interfaces in Organic Photovoltaics
11:30 – 12:00	Anand Jagota (Lehigh University) Hybrids of DNA and Single-walled Carbon Nanotubes
12:00 – 12:30	Mircea Cotlet (Brookhaven National Laboratory) Light-induced Interfacial Interactions in Mixed Dimensional Van der Waals Heterostructures
Friday, April 21, Morning	

Introduction

9:00 - 9:10

- 9:10 9:40Ron Naaman (Weizmann Institute) The Chiral-induced Spin Selectivity (CISS) Effect: From Electron Transfer in Biology to Spintronics
- 9:40 10:10 Raffaella Buonsanti (École polytechnique fédérale de Lausanne, Switzerland) Colloidal Nanocrystals to Advance Catalysis and Energy Technologies
- 10:10 10:40 Aaron Lindenberg (SLAC/Stanford University) Ultrafast Probes of Interfacial Charge and Lattice Dynamics

Richard Schaller (Argonne National Laboratory)

- 10:40 11:00 Break and Networking
- 11:00 11:30 Gordana Dukovic (University of Colorado at Boulder)

 Driving Redox Enzyme Catalysis with Photoexcited Nanocrystals
- 11:30 12:00 Tianquan Lian (Emory University)

 Structure and Dynamics at Metal Electrode/Electrolyte Interface Probed
 by In Situ Electrochemical Surface Enhanced/Selective Vibrational
 Spectroscopic Methods
- 12:00 12:30 Benjamin Diroll (Argonne National Laboratory)

 Spectroscopic Measurements of Heat Transfer at Organic-inorganic

 Nanoscale Interfaces
- 12:30 12:40 Closing Remarks