



Tuesday 28 March

CHiMaD HQ, Hogan Hall 1st floor MSE Conference Room, Cook Hall 2058 http://www.northwestern.edu/campus/maps.html

8:30	Registration (Coffee & Pastry) (CHiMaD HQ)		
A. Opening: Research Initiatives (CHiMaD HQ)			
9:00	Welcome	Prof. Gregory Olson, NU	
9:10	NIMS Current & Future	Dr. Yoshio Aoki, NIMS	
9:20	Advances in Phase Field Modeling	Prof. Peter Voorhees, NU	
9:40	SIP Materials Integration Projects	Dr. Makoto Watanabe, NIMS	
10:00	Activity of NIMS Creep Data Sheet Project	Dr. Kazuhiro Kimura, NIMS	

BREAK

B. Materials Informatics (CHiMaD HQ)

10:30	New Publishing Strategy for Materials Informatics	Prof. Shu Yamaguchi, University of Tokyo
10:50	Materials Informatics and Big Data: Realization of 4th Paradigm of Science in Materials Science: Steel Fatigue Strength Predictor	Prof. Ankit Agrawal, NU
11:10	Computational Methods for Designing Microstructured Material Systems	Prof. Wei Chen, NU
11:30	Phase-field crystal simulation of grain growth	Dr. Akinori Yamanaka, Tokyo University of Agriculture and Technology
11:50	Computer Aided Material Development (CAMaD) using text mining	Dr. Ikumu Watanabe, NIMS
12:30	<i>Lunch</i> (Allen center)	



5th NU-NIMS Materials Genome Workshop Northwestern University, March 28, 2017 Preliminary Program



C1. Structural Materials (CHiMaD HQ)

14:00	Segregation and Ultrafine Grain Formation in Mg- Zn Alloys during Severe Plastic Deformation	Prof. Koichi Tsuchiya, NIMS		
14:20	Waterless Martian Concrete: Experiment and Modeling	Prof. Gianluca Cusatis, NU		
14:40	Functionalization of material surfaces by advanced thermal spray processes	Dr. Seiji Kuroda, NIMS		
15:00	Influence of Aluminum and Vanadium Content on Mechanical Properties and Microstructure of Ultra High Strength Steel	Dr. Kenji Sugiyama, Daido Steel		
15:20	SCA Approach to Fatigue in Additive Materials	Prof. Wing-Kam Liu, NU		
15:40	Ink-Based Printing and Sintering of Metallic Scaffolds	Prof. David Dunand, NU		
16:00	Deformation of hydrogen-storage-alloy actuator induced by hydrogen diffusion	Mr. Kenta Goto, Yokohama National University		
C2. Polymers and functional materials (MSE Conference Room)				
	C2. Polymers and functional materials (MSE	Conference Room)		
14:00	C2. Polymers and functional materials (MSE Metal-oxide Interfit Catalysts for Exhaust Remediation	Conference Room) Dr. Hideki Abe, NIMS		
14:00 14:20	Metal-oxide Interfit Catalysts for Exhaust			
	Metal-oxide Interfit Catalysts for Exhaust Remediation Nanocrystallization phase separation: new route	Dr. Hideki Abe, NIMS		
14:20	Metal-oxide Interfit Catalysts for Exhaust Remediation Nanocrystallization phase separation: new route for mesoporous polymers	Dr. Hideki Abe, NIMS Dr. Sadaki Samitsu, NIMS		
14:20 14:40	Metal-oxide Interfit Catalysts for Exhaust Remediation Nanocrystallization phase separation: new route for mesoporous polymers Polymerization Catalysis and Printed Electronics Conformational Dynamics of Imide-Based π-	Dr. Hideki Abe, NIMS Dr. Sadaki Samitsu, NIMS Prof. Tobin Marks, NU		
14:20 14:40 15:00	Metal-oxide Interfit Catalysts for Exhaust Remediation Nanocrystallization phase separation: new route for mesoporous polymers Polymerization Catalysis and Printed Electronics Conformational Dynamics of Imide-Based π- Molecular Assemblies	Dr. Hideki Abe, NIMS Dr. Sadaki Samitsu, NIMS Prof. Tobin Marks, NU Dr. Atsuro Takai, NIMS		
14:20 14:40 15:00 15:20	Metal-oxide Interfit Catalysts for Exhaust Remediation Nanocrystallization phase separation: new route for mesoporous polymers Polymerization Catalysis and Printed Electronics Conformational Dynamics of Imide-Based π- Molecular Assemblies NanoMine: Polymer Nanocomposites and Beyond	Dr. Hideki Abe, NIMS Dr. Sadaki Samitsu, NIMS Prof. Tobin Marks, NU Dr. Atsuro Takai, NIMS Prof. Catherine Brinson, NU		