

NHERI Lehigh Experimental Facility Researcher's Workshop: Advanced Simulation For Natural Hazards Mitigation

NHERI RTMD Equipment Site
Lehigh University
December 4, 2017



General Housekeeping Items

- Continental breakfast available in B101 (courtesy of ATLSS Engineering Research Center)
- B101 will be used for all presentations
- H150/A121/A104 will be used for hands on testing
- A108 available if private office space required
- Lunch will be available in A200 (courtesy of ATLSS Engineering Research Center)
- Restrooms
- Wireless

Objectives

- To disseminate information on the use of the NHERI Lehigh Experimental Facility (EF) to conduct state-of-the-art research in natural hazards mitigation
- To provide the basics of real-time hybrid simulation through lectures and hands-on demonstrations
- To understand how the NHERI Lehigh EF capabilities can enhance participant research
- To provide information for preparing NSF proposals which use the NHERI Lehigh EF, and
- To identify and develop opportunities to utilize the NHERI Lehigh EF.

Agenda – Monday, December 4, 2017

Start Time	End Time	Room #	Description	Presenter	Title
8:15 am	8:45 am	B101	Registration and Continental Breakfast	Lehigh EF Staff	-----
8:45 am	8:55 am	B101	Welcome, Objectives, and Agenda Review	James Ricles	Facility Director
8:55 am	9:05 am	B101	Introduction to Lehigh EF Staff and Website	Chad Kusko	Ops Mgr
9:05 am	9:20 am	B101	Preparing a Competitive NSF Proposal	James Ricles	Facility Director
9:20 am	9:55 am	B101	NHERI Lehigh Experimental Capabilities and Protocols	James Ricles	Facility Director
9:55 am	10:30 am	B101	NHERI Lehigh IT Operations and Cyber Infrastructure	Tommy Marullo	Systems Admin
10:30 am	10:40 am	-----	Break	-----	-----
10:40 am	11:20 am	B101	NHERI Lehigh Facility Project Portfolio	Richard Sause	Facility co- Director
11:20 am	12:00 pm	H150	NHERI Lehigh Experimental Facility Tour	Peter Bryan	ATLSS IT Mgr.
12:00 pm	1:00 pm	A200	Networking Lunch	-----	-----
1:00 pm	1:30 pm	B101	Proposal Preparation and Post-Award Expectations	Chad Kusko	Ops Mgr
1:30 pm	2:00 pm	B101	Real-Time Hybrid Simulation: Background, Theory and Implementation	James Ricles	Facility Director
2:00 pm	2:20 pm	B101	Overview of Hands-on Laboratory Exercises: Topic A: RTHS of an RC Building System Topic B: HybridFEM Numerical Simulation	James Ricles Tommy Marullo	Facility Director Systems Admin
2:20 pm	2:35 pm	-----	Break	-----	-----
2:35 pm	4:00 pm	H150	Hybrid Simulation: Hands-on Participation	Lehigh EF Staff	-----
4:00 pm	4:30 pm	B101	Questions, Closing Remarks, and Evaluations	Lehigh EF Staff	-----