

NEEShub Workshop

West Lafayette, Indiana

June 10–11th, 2010



NEEShub (www.nees.org)


NEEShub - Network for Earthquake Engineering Simulation - Windows Internet Explorer

http://neeshub.org/home

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Beta 2.0




NEEShub

George E. Brown, Jr. Network for Earthquake Engineering Simulation


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NEES Research Facility at Oregon State University

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[View Activity Map](#)


In the Spotlight

-  **inDEED:** Visualize, analyze and compare experimental and numerical earthquake ... - in Tools
-  **Specimen Authoring Tool:** Define the specimen views for your experiment with the types, measurement ... - in Tools
-  **NEES Site Manager workshop IT Presentation** - in Workshops


Use NEEShub to...

-  **Access** NEES projects - [Project Warehouse](#)
-  **Run** simulators and other Tools
-  **Learn** with earthquake data and simulators - [NEES Academy](#)
-  **Share** research - [Contribute Content](#)


NEES on YouTube




UC San Diego
NEES Shake
Table at Englekirk
Center




Englekirk School
Quake
Competition




2-story house shake
test



NEES Cornell Test
Lab



UCSD 7 Story
Building Shake
Table Test



New Orleans
Levee Centrifuge
Models

Events & Activities


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JUNE


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 Monday, June 7, 2010 15:27:14 UTC
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Depth: 83.90 km (52.13 mi)

JUN 08 M 5.1, Java, Indonesia

Internet | Protected Mode: On 100%

Goals of this workshop

- ▶ Engage and involve the NEES community in the development process
- ▶ Use realistic activities to evaluate the *NEEShub* and collect ideas

We anticipate having such a workshop each year.

Goals of this workshop

- ▶ The *focus* today is on the tools being improved and developed to support users in their research efforts.
 - Project Warehouse
 - inDEED (plotting tools)
 - OpenSEES
 - Project Explorer for NEES (data ingest)
 - Improved navigation and search

Agenda

- ▶ *Day 1 (June 10th)*

- ▶ 8:30–9:45 Goals of the Workshop & Intro to *NEEShub*
- ▶ 9:45–10:15 Teams and Tasks
- ▶ 10:15–10:30 Morning break
- ▶ 10:30–5:00 Team activities (*take breaks as needed*)
- ▶ 12:15 Lunch arrives
- ▶ 3:00–3:20 Tour (by Mark Bowman, Bowen Lab Director)
- ▶ 5:00–? BBQ for all at Happy Hollow Park

- ▶

- ▶ *Day 2 (June 11th)*

- ▶ 8:30–10:15 Group presentations
- ▶ 10:15–10:30 Morning break
- ▶ 10:30–12:00 PEN Demonstration; Discussion

Getting started...

- ▶ Create an account on the NEEShub
 - <http://neeshub.org>
- ▶ Join the group assigned to your team (see Table 1 for groups), and your membership request will be approved shortly

Rudi Eigenmann

Welcome to the Workshop

We Need Your Feedback !

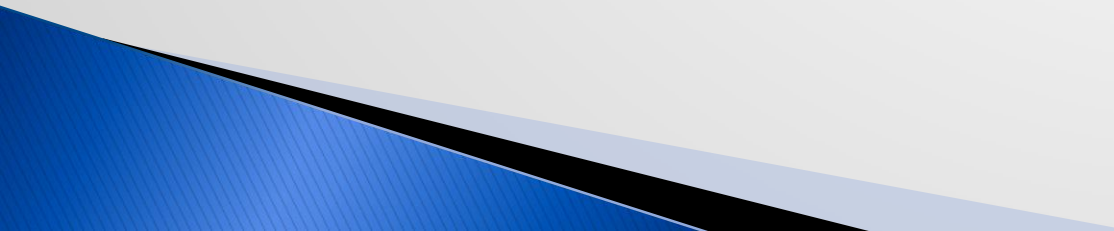
- ▶ Requirements-driven design is key
- ▶ Explicit needs of the community
- ▶ Our ideas, vetted by the community
- ▶ Our first release: July 31 – your critical review and ideas are very much appreciated.



Dawn Weisman

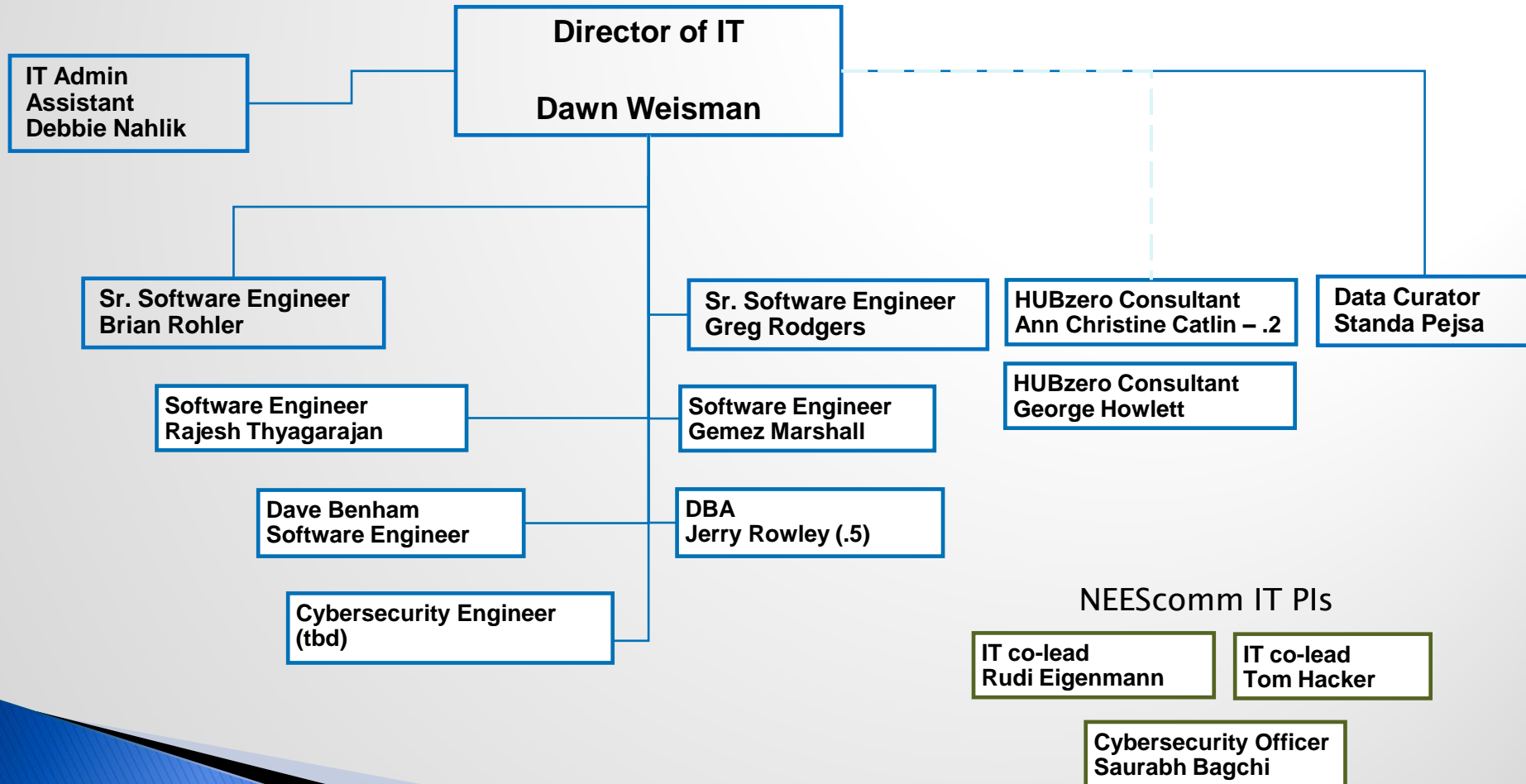
IT Update

Overview

- ▶ IT Team Structure
 - ▶ Release 1 Process
 - ▶ Prototype 2 Status
 - ▶ Intro to P2
 - ▶ New P3 functionality
- 

NEEScomm IT Org Chart

June 2010



Release 1 Process

- ▶ Source of initial Requirements
 - NEESit 2007 RTM
 - Basic nees.org functionality
 - Researcher interaction
- ▶ Requirements reviewed and prioritized by DWG and RAAS
- ▶ NEEScomm IT included most high and some lower priority requirements in Release 1
- ▶ Design direction received from Core Feedback Group
- ▶ Release 1 staged in 3 prototypes
- ▶ Release 2 starting soon – with process refinements

Release 1 Timeline

[illegible]

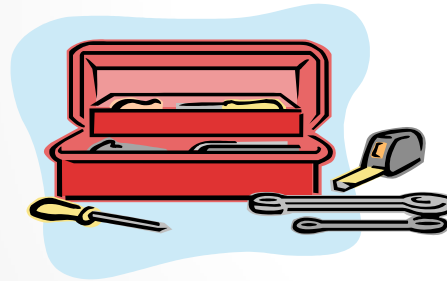
Prototype 2 Status

- ▶ Released to Testers on Monday (June 7)
- ▶ Contains a limited set of Project Warehouse data
- ▶ Includes improved P1 functionality as well as new functionality
- ▶ Be patient – we expect to find bugs

Brief Intro to P2

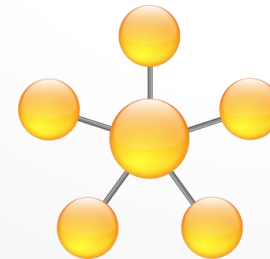
▶ Tools

- Downloadable/Executable
- Authoring Tool
- inDEED
- Project Warehouse
- OpenSEES



▶ Hub functionality

- Groups
- Context sensitive tickets
- Session Sharing
- 'Multi-tasking'
- Contributions/Resources



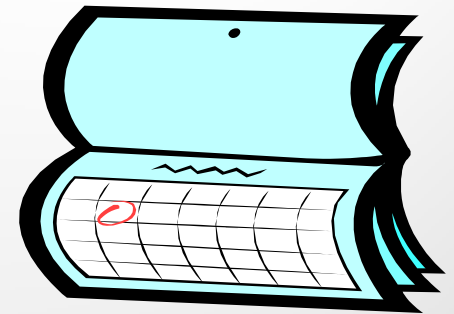
▶ General Web functionality

- Register
- Login
- Wish List
- Ticketing
- Knowledge Base
- Search
- About NEES



New P3 Functionality

- ▶ Project Warehouse
 - Improved Display
 - Upload
 - Project Editor
- ▶ PEN Tool
- ▶ Mailing Lists
- ▶ Code Repository
- ▶ Remaining Tools (downloadable)
- ▶ Teragrid Allocation
- ▶ Site Utilization Calendar
- ▶ Data Migration
- ▶ User Account Migration



Questions / Comments

Next steps

- ▶ Complete a set of tasks
- ▶ Evaluate the current version of the NEEShub and provide feedback
- ▶ *Please don't be concerned about doing tasks in the correct way, as any way that you can complete the tasks is correct.*
- ▶ Please *do* tell us about problems you experience, things that you like, and ideas for the future.

General Tasks

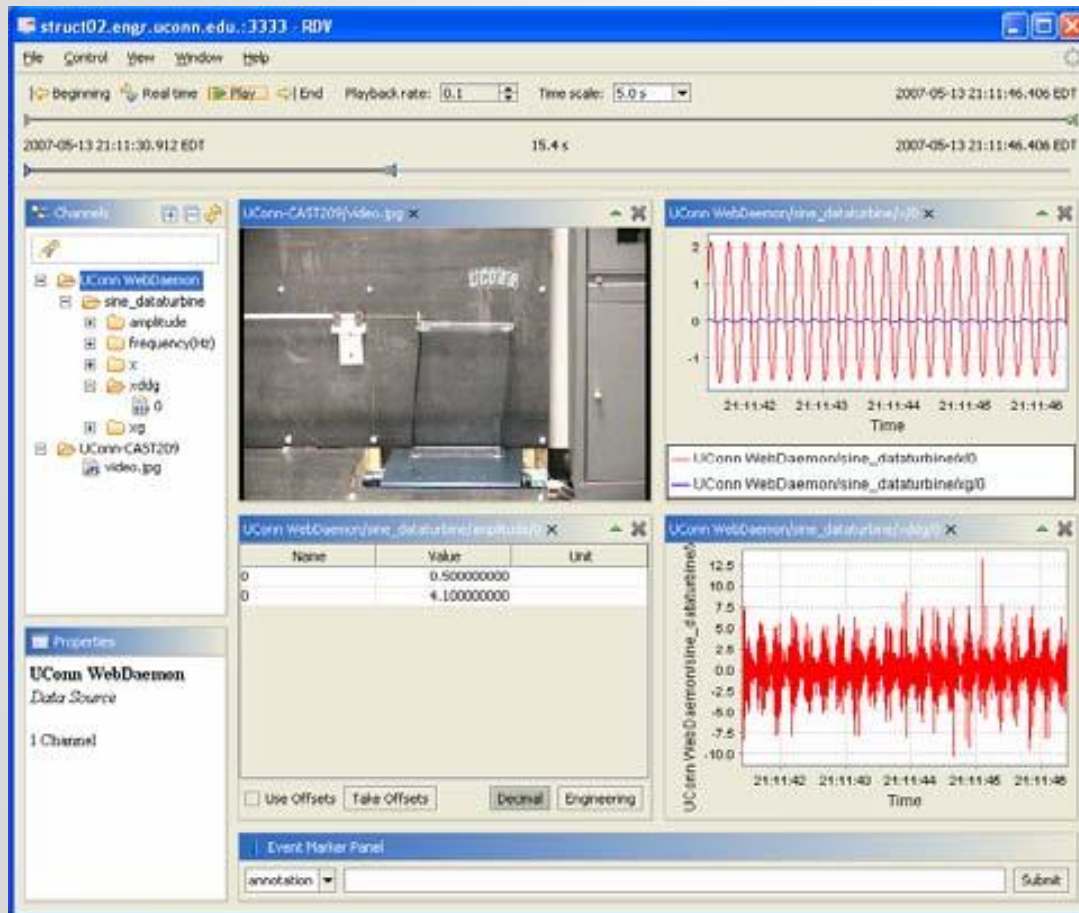
- ▶ Use the link on the group's wiki to sign up for a time to perform the remote experiment
- ▶ On the wiki page in your group please take detailed notes on this experience as you perform the tasks
- ▶ Use the *ticket system* to report any bugs, problems, difficulties throughout the workshop

Specific Tasks

Please do the following tasks, but they can be completed *in any order you wish*.

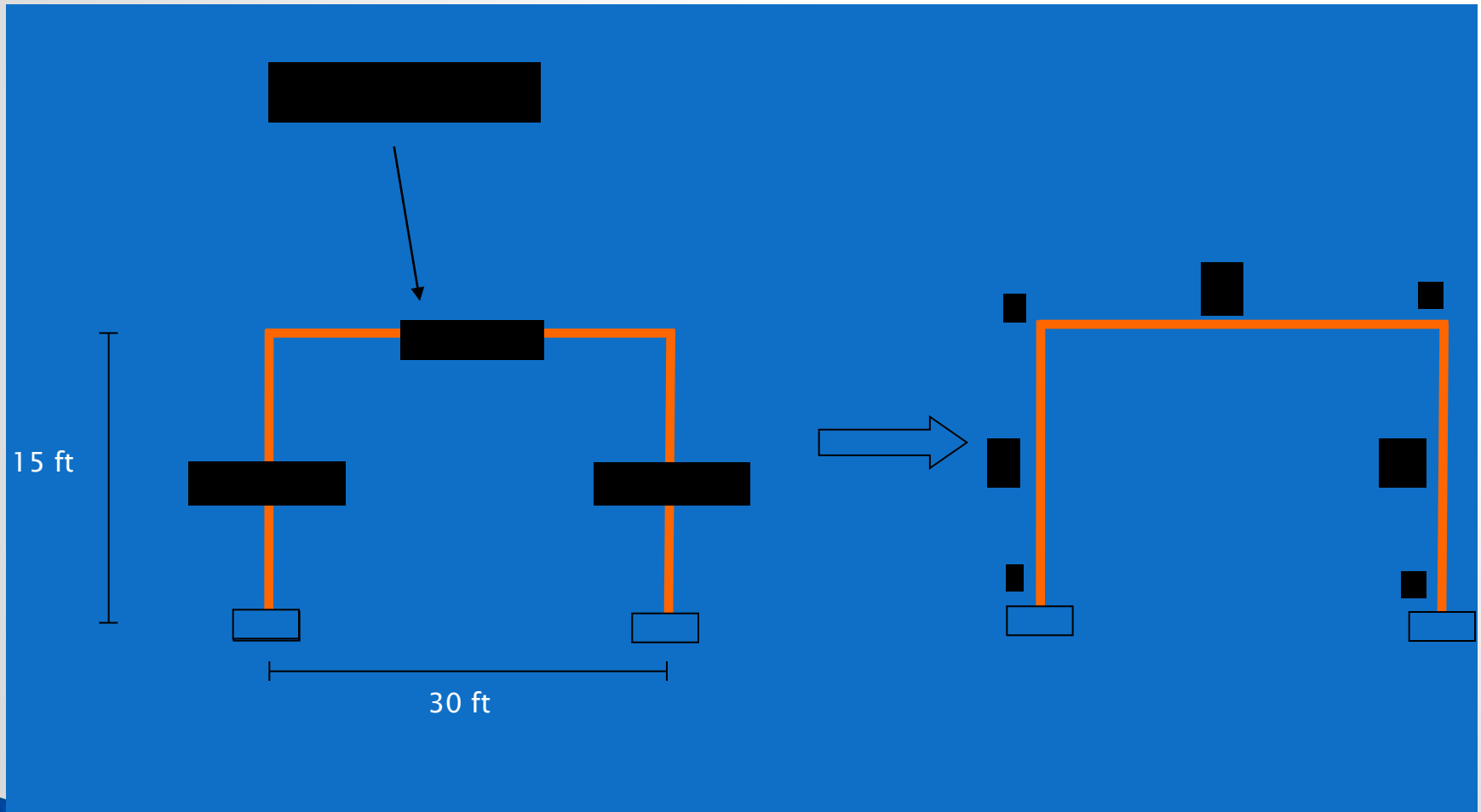
- ▶ Perform a remote experiment on a shake table
- ▶ Run a simulation in OpenSEES
- ▶ Scavenger hunt for information

Perform an Experiment



Remote operation funded in part by an NSF-CCLI Project.
By Dyke, Christenson, Jiang, Gao and Feinstein

Run a Simulation with OpenSEES



Scavenger Hunt

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Tomorrow

- ▶ Friday morning each group will be asked to make a powerpoint presentation. Please comment and prioritize:
 - Problems encountered, creative solutions
 - What do you like? Not like?
 - Ideas for the future design of the NEEShub
- ▶ Upload the powerpoint file to the group wiki, and email to me at the close of the workshop
- ▶ NEEScomm IT will lead a discussion about input

Hints:

- ▶ The instructions should also be posted to your group's wiki site
- ▶ Some hints can be found in Section D of the instructions for
 - Uploading files
 - Deleting files
- ▶ If other hints are needed as we go we will post them in front of the room

Awards

- ▶ Best Group Feedback
- ▶ Best Innovation Concept
- ▶ Best Team Spirit

Kari Nasi & Santiago Pujol

Demo: Plotting tool

Nestor Castaneda

Demo: OpenSEES in the hub