

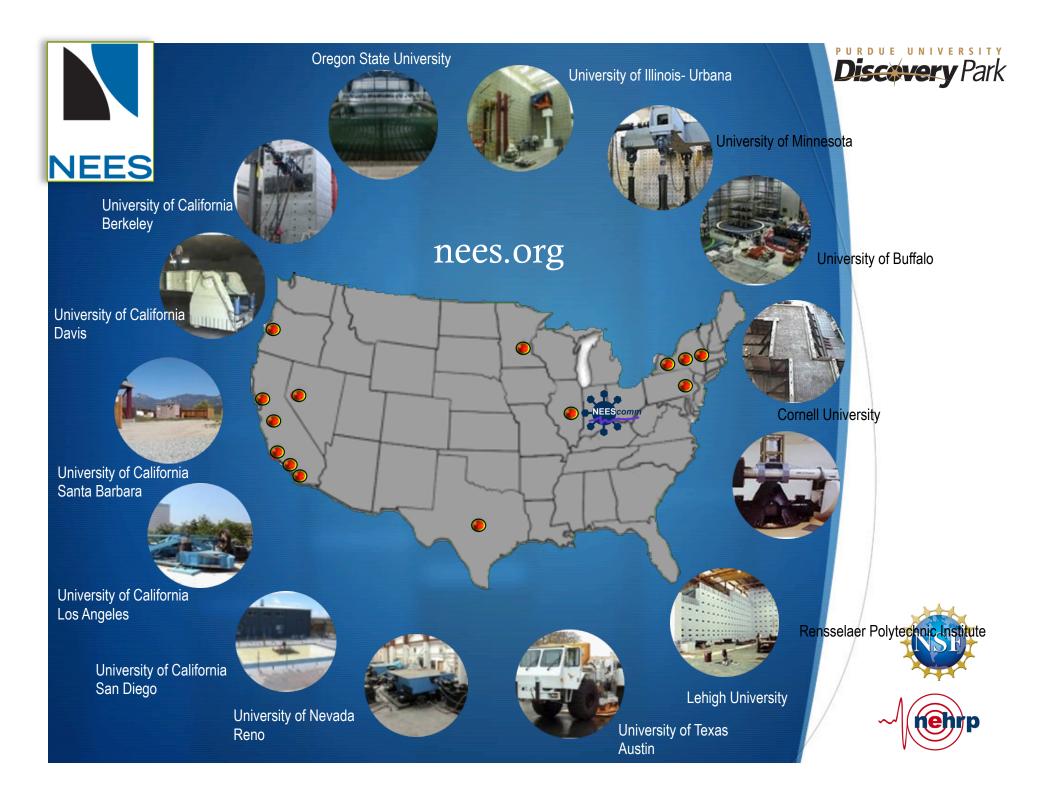
NEEShub:

Cyberinfrastructure of the Network for Earthquake Engineering Simulation



Rudi Eigenmann Purdue University





Cyberinfrastructure: NEEShub

An integration framework for

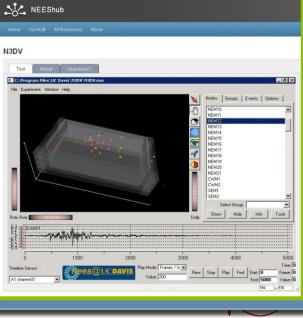


NEES





Community IT Tools



Challenges Creating the NEES NEES Cyberinfrastructure

Data, data, data....

• Capturing, curating and presenting research projects and their results, so that others can understand and re-use NEES experiments.

Diversity of NEES sites

• 14 sites with 6 classes of equipment

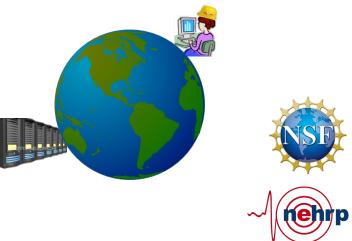
Requirement gathering and analysis

• From sites, researchers, community, HQ





- Production strength
- Recognized as a successful Cyberinfrastructure by NSF
- Online tools no download & install
- Data and tool co-location



What's missing?

PI(s): Dr. J.W. van de Lindt, Dr. R.A. Davidson, Dr. A. Filiatrault,

NEESWood Benchmark

Dr. D.V. Rosowky, and Dr. M. Symans Date: June 5, 2006 to November 15, 2006 Testing Site: SEESL - University at Buffalo

Project Description

"Data hub"

NEES

- Data gathering and upload
- Curation
- Archiving
- Data sharing support

This project seeks to take on the challenge of developing a seismic design philosophy that will provide the necessary mechanisms to safely increase the height of woodframe structures in active seismic zones of the U.S. as well as mitigating damage to low-rise woodframe structures. This will be accomplished through the development of a new seismic design philosophy that will make midrise woodframe construction a reality in region Such a design philosophy fall performance-based design p Sponsor: National Science Keywords: Seismic Design Equipment Main Equipment Shake Table Detailed Equipment List (listogram for:AGE 0.8209 24.3 - 31.6 31.6 - 38.9 31.9 - 46.2 Vertical

IT Team

NEES Community

> Data Sub Comm (Dyke)

Strategic Leadership

IT expertise Rudi Eigenmann, Co-PI (Purdue) Tom Hacker, Co-PI (Purdue) Saurabh Bagchi, Co-PI (Purdue)

NEES

Earthquake Engineers Ellen Rathje, Co-PI (UTexas) Shirley Dyke, Co-PI (Purdue) Santiago Pujol (Purdue) Ayhan Irfanoglu (Purdue) RAAS (Browning)

User's Forum (van de Lindt)

Operations

Dawn Weisman- IT Director Greg Rodgers - Sr Software Eng Brian Rohler - Sr Software Eng NEEScomm IT Staff Ann-Christine Catlin – Hub Tech, Data HUB development staff

Equipment Site IT CI Sub Comm of PAC (Fortes)