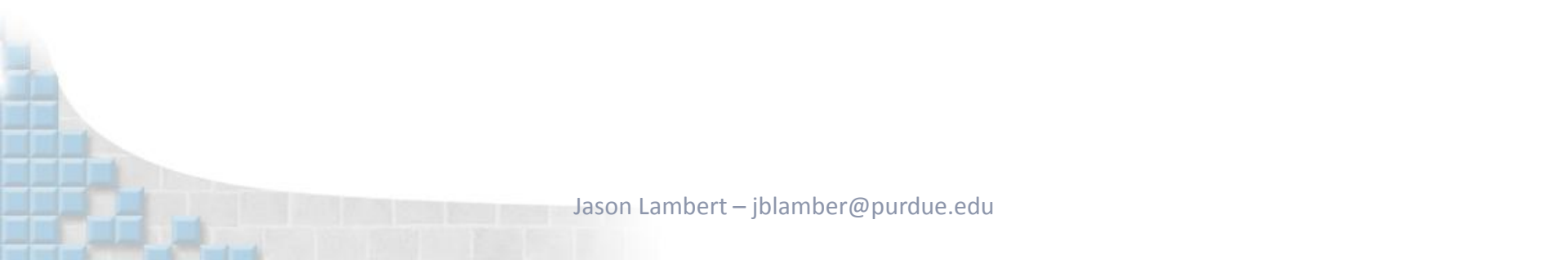




HUBbub 2011

Enhancing Hub Technology for Education, Outreach and Training Efforts

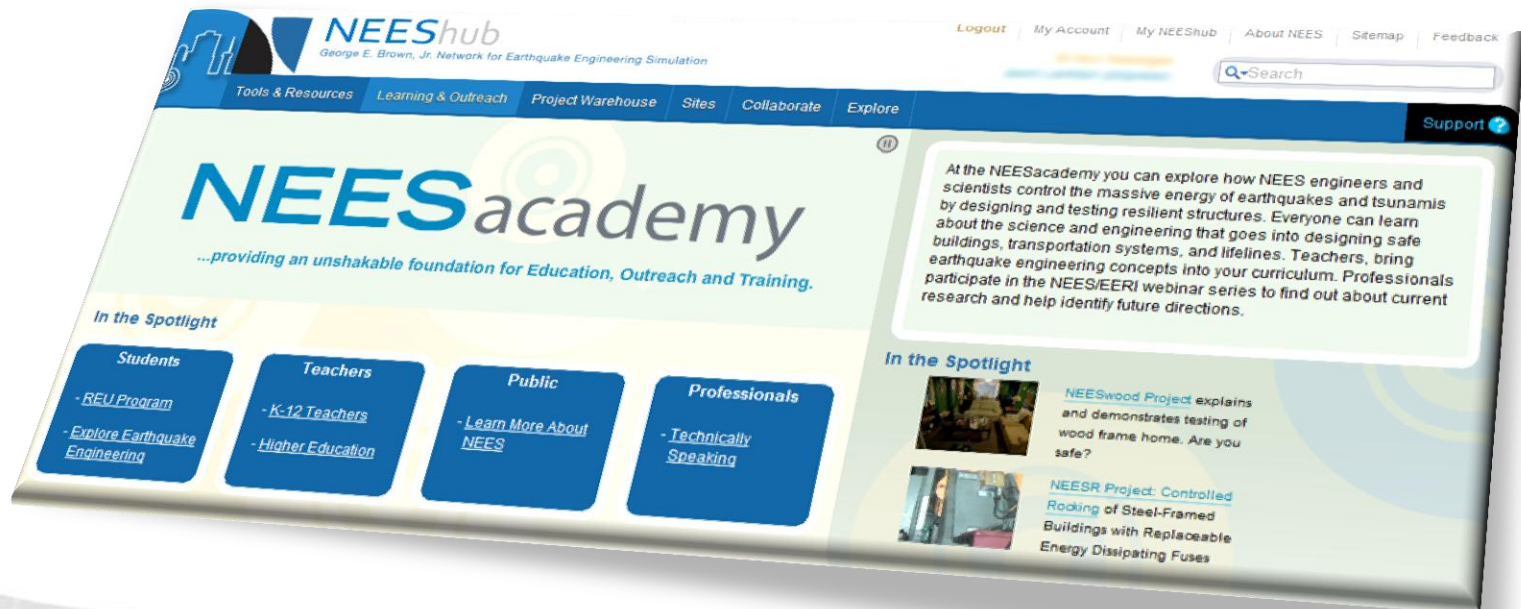
Jason Lambert



Introduction

NEESacademy (www.nees.org/education)

“High impact modules, high impact reuse and easier searching



Introduction

Moodle

Moodle

High impact reuse through curated,
customizable courses

“We need assessment on resources”

“We have a lot of lectures, power points and assignments left over from previous courses – how can we contribute this to NEES?”

 + NEES

(Moodle.org)



Introduction

Moodle

Moodle

The screenshot shows the Moodle course page for 'A Moodle Course' on the NEEShub website. The page includes a navigation menu with options like 'Tools & Resources', 'Learning & Outreach', 'Project Warehouse', 'Sites', 'Collaborate', 'Explore', and 'Support'. The breadcrumb trail indicates the user is in 'Home > Academy For Professionals > Courses > Miscellaneous > A Moodle Course'. The course details section lists the following information:

- Category:** Miscellaneous
- Summary:**
- Start Date:** 10-03-2011
- Enrolment start date:** 31-12-1969
- Enrolment end date:** 31-12-1969
- Enrolment duration:** Unlimited
- Cost:** \$5 (USD)
- Topics:** 10

Below the details, there is a 'Course Topics' link, a PayPal logo with the text 'Click to pay enrollment fee via Paypal', and an 'FAQ about Buying:' section with a link 'What am I Buying?'.

Introduction

Moodle

Moodle

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

Logout | My Account | My NEEShub | About NEES | Sitemap | Feedback

Tools & Resources | Learning & Outreach | Project Warehouse | Sites | Collaborate | Explore

You are here: Home » Learning & Outreach » Wood Education Institute

WEI 100 (CE433/433L) Switch role to... Turn editing on

People

- Participants

Activities

- Assignments
- Forums
- Quizzes
- Resources
- Surveys

Search Forums

Advanced search

Administration

- Turn editing on
- Settings
- Assign roles
- Grades
- Groups
- Backup
- Restore
- Import
- Reset
- Reports
- Questions
- Files
- Unenrol me from WEI 100 (CE433/433L)
- Profile

Course categories

- Miscellaneous
- Wood Education Institute
- All courses ...

Weekly outline

- News forum
- Welcome!
- Syllabus
- Survey - Introduction
- Lab Project Architectural Drawings
- Lab Project (Hi Res Dimensioned Plan)
- Project Guidelines
- Weekly Evaluations
- Project Review Form (Grading Rubric)

28 March - 3 April

Week 1: Demand (part 1)
Learning Objectives
At the completion of this week's portion of the course the student should be able to:

- Determine weight of low-rise wood building wall, floor and roof assemblies and summarize Dead Load design criteria.
- Select appropriate Live Load design criteria for roof and floor based on occupancy using ASCE 7-10 and apply applicable live load reductions.
- Determine tributary width (TW) and tributary area (TA) for beams, girders, columns and other structural elements of the vertical load carrying system.
- Determine floor and roof live load reductions based on ASCE 7-10
- Distinguish between projected area loading and slopped surface loads.
- Correctly combine slopped and projected area loads.

- Class presentation: Vertical Loads
- Reading
- Homework (H1)
- Quiz 1: Dead and Live Loads
- Design Lab Project

Latest News

Add a new topic...

25 Mar, 20:27
Mikhail Gershfeld
First CLT use more...
Older topics ...

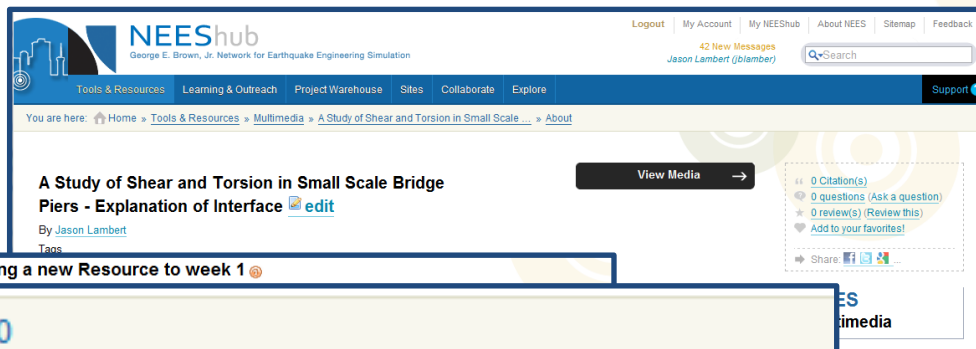
Upcoming Events

- Quiz 1: Dead and Live Loads (Quiz closes) *Today*
- Quiz 2: Wind Loads *Tomorrow, 11:10 AM*
» *Sunday, 10 April, 11:10 AM*
- Design Lab Project *Tomorrow*
- Homework (H1) *Tomorrow*
- Homework (H2) *Tuesday, 12 April*
- Quiz 3: Seismic Design *Tuesday, 12 April, 11:25 AM*
» *Sunday, 17 April, 11:25 AM*
- Design Lab Project *Tuesday, 12 April*
- Reading *Tuesday, 19 April*
- Design Lab Project *Tuesday, 19 April*
- Homework (H3) *Tuesday, 19 April*

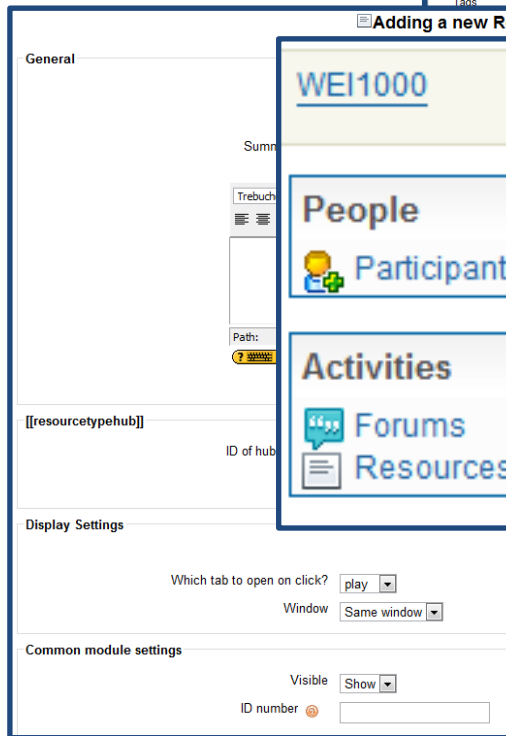
Go to calendar...
New Event...

Recent Activity

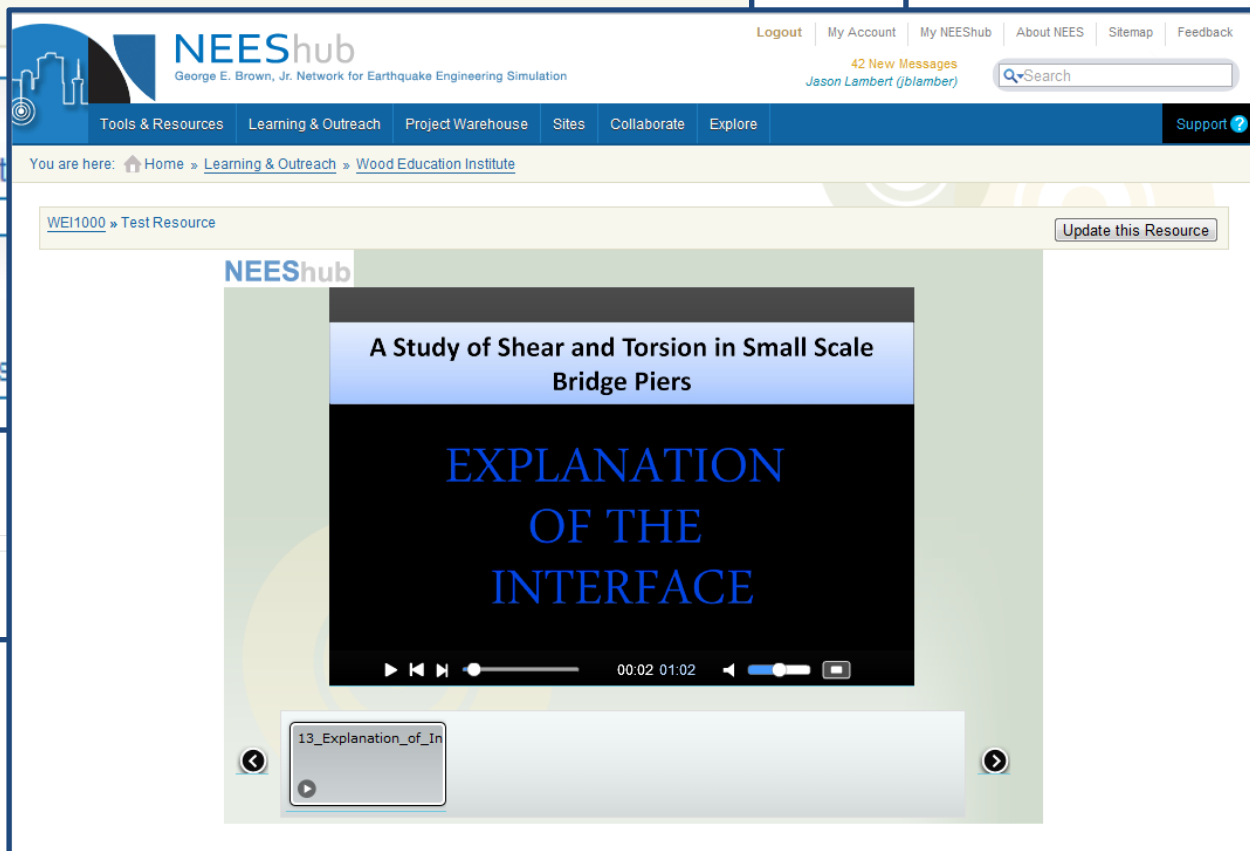
Activity since Sunday, 3 April 2011



This screenshot shows the NEEShub website interface for an article. The header includes the NEEShub logo and navigation links like 'Tools & Resources', 'Learning & Outreach', and 'Project Warehouse'. The article title is 'A Study of Shear and Torsion in Small Scale Bridge Piers - Explanation of Interface' by Jason Lambert. A 'View Media' button is visible, along with a sidebar for user interactions such as 'Citation(s)', 'questions', and 'reviews'.



This screenshot displays the 'Adding a new Resource to week 1' settings page. It features a sidebar with navigation options like 'People', 'Activities', 'Forums', and 'Resources'. The main content area is divided into sections for 'General', 'Display Settings', and 'Common module settings', each containing various configuration options like dropdown menus and text input fields.



This screenshot shows a video player on the NEEShub website. The video title is 'A Study of Shear and Torsion in Small Scale Bridge Piers' with the subtitle 'EXPLANATION OF THE INTERFACE'. The video player includes standard controls like play/pause, volume, and a progress bar. The video ID '13_Explanation_of_In' is visible in the bottom left corner.



NEESlive

Sharing experiences

“We have sites, 14 across the country, how can we share those experiences with disparate users? We want to host an online poster session, with students across the country giving presentations. We need to be able to give online webinars to hundreds of participants”

Introduction



Moodle



NEESlive



NEESlive

Open source Flash based media streaming

Introduction

Moodle

NEESlive

The screenshot displays the NEESlive web interface. At the top, the NEEShub logo and navigation menu are visible. A central overlay asks: "Do you want to join the VIDEO and AUDIO conference? (To hear the speakers commentary and view their presentation)". Below this are two buttons: "Yes, view using Computer" and "No, text chat only". The main content area shows a video player with a "Mute Audio" button. To the right, there is a "My Mic" section with a microphone icon. Below the video, a chat window titled "MESSAGES" shows a list of messages: "AV cleared.", "{ Lobby Conference joined }", "AV cleared.", "{ NEESlive Conference joined }", "Joint voice broadcast.", and "J B joined". At the bottom of the chat window, there is a "Message: >" input field, a "Send Message to All" button, and a "Make Page Full Screen" button. The footer of the page includes the copyright notice "(c) 2010 NEESComm | www.nees.org".

Streaming Service





Introduction



Moodle



NEESlive

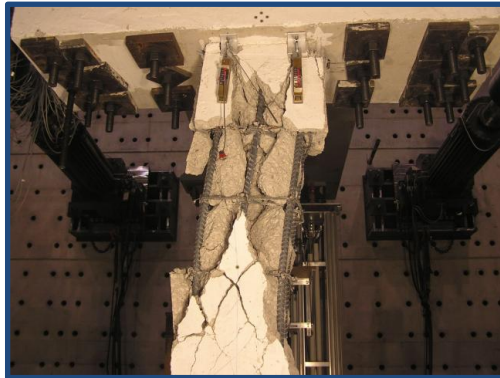


HUB
Resources

Resources

Customizing resource templates to better meet strategic goals

“How can we better tag resources? Can the tri-fold to look nicer? How can we better arrange our resources for searching? How can we improve the contribution process and get richer documents created? How do we make it easier to host hundreds of resource items in a category?”

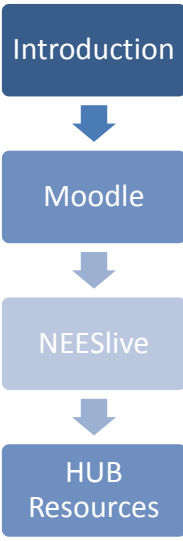


Research



Classroom

Resources



Contribute: Start: Step 1: Compose

START Compose Attach Authors

Earthquake Engineering Component:

How does the goal of this act...
How does your model rela...

Image Properties

Image Info Link Upload

URL
/resources/2743/download/world_seismicity.png Browse Attachments

Alternative Text
World Seismicity Map (http://www.ualberta.ca/~dumberny/PlateTectonics.htm)

Width
400

Height
246

Border

HSpace

VSpace

Alignment
<not set>

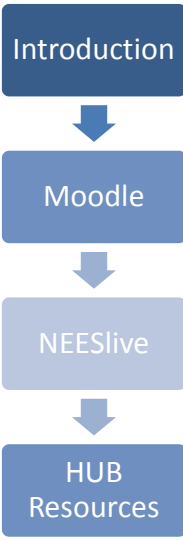
Preview

OK Cancel

Earth is made of 7 major tectonic plates and numerous secondary and tertiary plates that move towards each other, away from each other or slide past each other. The forces between the plates cause potential energy to be stored along the boundaries. When too much energy is stored along these boundaries, energy is released through the movement of these plates which causes earthquakes. Every year, hundreds of thousands of

Richer Editing

Resources



Database for Structural Benchmark Problems

By Shirley Dyke, Anil Kumar Agrawal, Justin Henri Gavin, Erik Johnson, Satish Nagarajan

Purdue University

Tags: [benchmark](#) [databases](#) [Problem Statement](#) [structural monitoring](#)

[Add/Remove Tags](#)

Tremendous progress has been made over the past few decades in the area of structural monitoring and control a viable technique and safety against natural hazards such as earthquakes.

[See Related Content](#)

Earthquake Resistant Structure Using Wood Blocks

By Tenille Denise Medley

Tags: [base isolation](#) [cross bracing](#) [downloadable](#) [EOT](#) [grades K-6](#) [Infrastructure](#) [intensity](#) [kinetic energy](#) [magnitude](#) [mass damper](#) [potential energy](#) [practical activities](#) [simulation](#) [tectonic plate](#) [topics solved by engineering](#)

Students will divide into groups of 3 or 4. Each group will perform three separate experiments using wooden blocks on a shake table to demonstrate how mechanical energy is conserved and transformed. (Note: this activity does not explain how to ...)

[See Related Content](#)

[Download \(PDF\)](#)

Additional materials available (5)

Licensed under Creative Commons according to this deed.

0 Citation(s)
0 questions (Ask a question)
0 review(s) (Review this)

Share: [Facebook](#) [Twitter](#) [LinkedIn](#) [Email](#)

NEES Learning Object

Database for Structural Benchmark Problems

Abstract: Tremendous progress has been made over the past few decades in the area of structural monitoring and control a viable technique and safety against natural hazards such as earthquakes.

World Seismicity Map

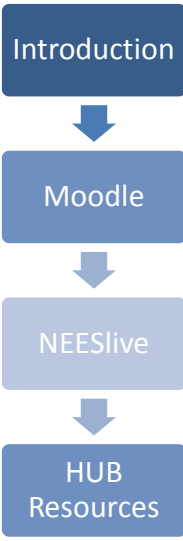
Figure 1. World Seismicity Map. Small dots are earthquakes of various depths which help outline the plate borders.

Earthquake engineers use shake tables to simulate released energy in order to understand how to help reduce damage and destruction of **infrastructure** due to natural disasters. Students will assemble into groups of three to create model structures using engineering techniques to control the amount of **kinetic energy** being transferred from the release of energy from the earthquake, to the infrastructure that is affected.

Resource Changes

Jason Lambert – jblamber@purdue.edu

Resources



Databases

Databases on NEEShub were developed using Project Warehouse and external data. They are repositories of data, vetted by professional communities, and connected to original sources. They enable impactful data to be highlighted in many formats.

Select a tag in the first column, and then click on a resource in the second column to see its info in the third column

Tag	Resources	Sort by Title
[All]	Database for Structural Control and ...	
CATEGORY: data management (3)	Performance Database for Reinforced ...	
CATEGORY: downloadable (9)	Permanently Instrumented Field Sites ...	
CATEGORY: EOT (12)	SAC Steel Project Database	
CATEGORY: simulation (13)	Shear Wall Database	
CATEGORY: telepresence (5)	The Haiti Earthquake Database	
CATEGORY: visualization (5)	The Shear Wave Velocity Profiles ...	
AUDIENCE: grades K-12 (2)		
AUDIENCE: grades K-6 (2)		
AUDIENCE: graduate (9)		
AUDIENCE: professional (10)		
AUDIENCE: undergraduate (4)		
accelerometer (1)		
Activities (1)		
analysis (1)		

Community Top Rated Resources
[Show Results ↓](#)

View Other Resource Types:

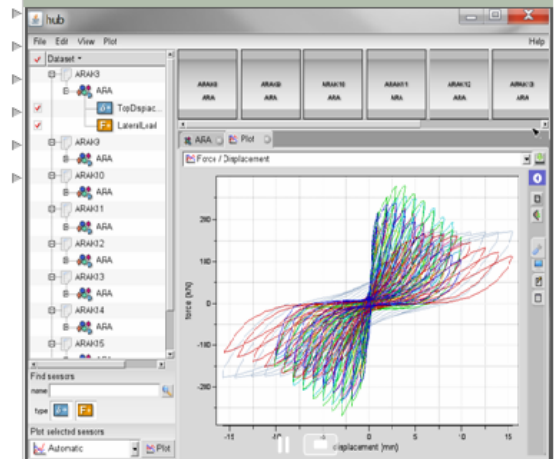
Databases

[Try the new Resource Discovery](#)

Type a title keyword then press [Enter] to quickly search resources

Introduction

Performance Database for Concrete Columns



NEES Trifold

Introduction

Moodle

NEESlive

HUB Resources

Resources

You are here: [Home](#) > [CMMI Materials and Surface Engineering](#)

- Home
- Program Clusters**
- Cross Cutting Category
- Student Posters
- Advanced Manufacturing
 - Manufacturing and Construction Machines and Equipment
 - Manufacturing Enterprise Systems
 - Materials Processing and Manufacturing
 - NanoManufacturing
- Mechanics and Engineering Materials
 - Geomechanics & Geomaterials
 - Materials and Surface Engineering
 - Mechanics of Materials
 - Nano and Bio Mechanics
 - Structural Materials and Mechanics
- Resilient and Sustainable Infrastructures
 - Civil Infrastructure Systems
 - George E. Brown, Jr. Network for Earthquake Engineering Simulation Research
 - NEES Operations Program
 - Geotechnical Engineering
 - Hazard Mitigation and Structural Engineering
 - Infrastructure Management and Extreme Events
- Systems Engineering and Design
 - Control Systems
 - Dynamical Systems
 - Engineering Design and Innovation
 - Operations Research
 - Sensors and Sensing Systems
 - Service Enterprise Systems

NSF CMMI RESEARCH AND INNOVATION CONFERENCE 2011

Online Poster Session

Add to this collection →

When you *add to this collection*, you can begin a new contribution process, a simple 5 step solution to upload your own work. Once approved, your work will appear with the same tags as you have selected.

Welcome to the Materials and Surface Engineering poster section.

The GEOMM program supports fundamental research on the mechanics and engineering properties of geologic materials including the mechanical properties of soil and rock, mechanically stabilized and biologically modified soil, and on natural processes, such as hydraulic, biological and thermal, that affect the behavior of these materials. Research on soil-structure interaction and liquefaction are also funded by the program. Support is provided for theoretical studies, constitutive and numerical modeling, laboratory, centrifuge, and field testing.

Filtering by Resources Tagged As:

cmmi-materials-and-surface-engineering

→ View your Pick List Here ←

8 Results in this collection

Other tags appearing on this page

CMMI-2011 (8) (+)
professional (6) (+)
topics solved by engineering (5) (+)
EOT (5) (+)
graduate (4) (+)
undergraduate (4) (+)

POSTER

click for more info

quakeQuest - Communication Tool Application

CHAT AREA LIST

Building (0/50)

Google Chrome

posters/Hernandez.jpg

James with Dampers **STMD**

Results

Methods

Send

VIDEO CONFERENCE

Join conference

Leave conference

asdasd (me)

(c) 2010 NEESComm | www.nees.org | (c) 2007 gotoAndPlay() | www.gotoandplay.it | www.smartfoxserver.com

hold 'H' key for help...

Cheer! Dance! Applaud!

One more thing

- Questions?

Introduction



Moodle



NEESlive



HUB
Resources



One more
thing

NEESacademy

...providing an unshakable foundation for Education, Outreach and Training.