

Welcome to the

World of HUBzero

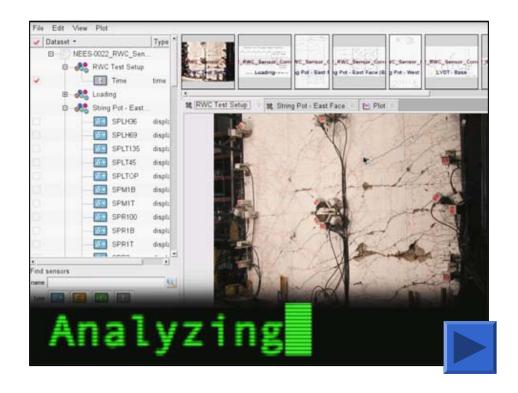
Michael McLennan, Ph.D.

Director, HUBzero® Platform for Scientific Collaboration
Purdue University
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Our Mission



Build Collaboratories for Research, Education, and Collaboration



Started with nanoHUB.org





Network for Computational Nanotechnology Established in 2002



Awards EEC-0228390 EEC-0634750 OCI-0438246 OCI-0721680

481,906 Visitors

234,949 Users

262 Simulation Tools

3,162 Resources

902 Citations

760 Classes at 100 Insitutions



40+ Other Hubs



~800,000
visitors total

visitors	users		
481,906	234,949	nanoHUB.org	nanoHUB.org
150,883	33,620	NEEShub George E. Brown, Jr. Network for	nees.org
60,523	32,580	GL ® 3ALHUB	GlobalHUB.org
33,447	23,425	HARMAHUB	pharmaHUB.org
23,444	5,385	V _{HUB}	vhub.org
14,667	3,393	CCe HUB cancercareengineering	cceHUB.org
12,550	1,224	iemhub a CIEM project	iemhub.org
10,995	1,863	C^3Bi	C3Bio.org
10,490	1,328	habri central Resources for the Study of the Human-Animal Bond	HABRIcentral.org
10,358	1,879	SIEMEd	StemEdHub.org
9,792	3,141	CIHUBOR	ciHUB.org
9,666	1,635	CLEERHUB Collaboratory for Engineer	cleerHUB.org

New Release

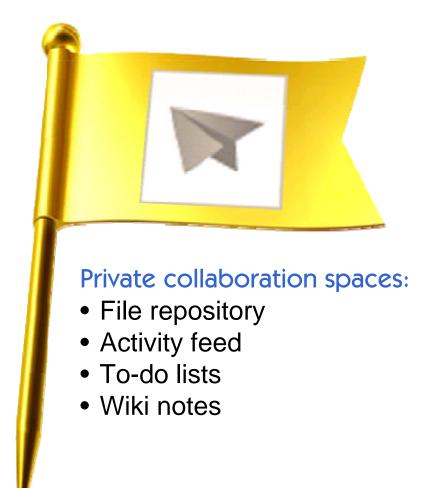


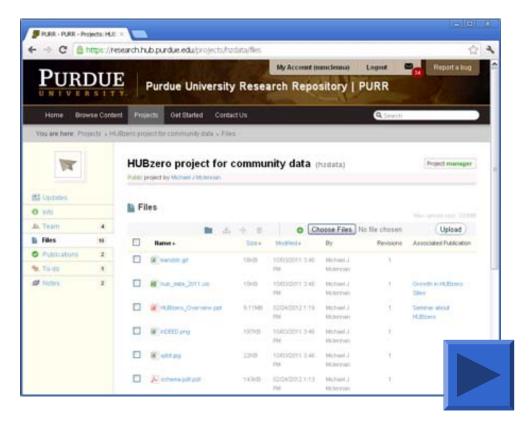


More than 40 new features!

New Feature: Projects





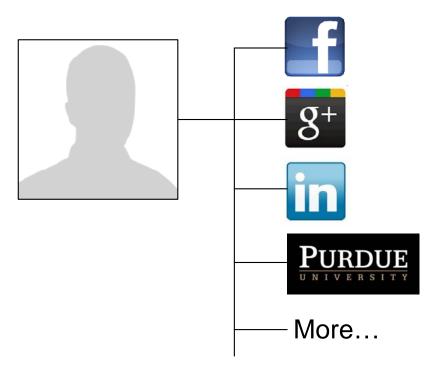


New Feature: Federated Identity





- Log in with existing accounts
- Link multiple accounts to your profile
- ssh key for ssh/sftp access



New Feature: Pegasus

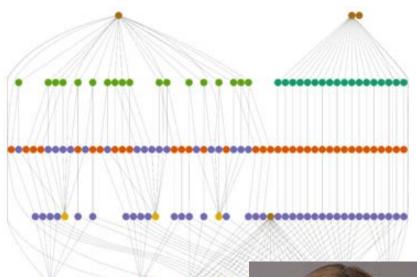




Computational workflows:

- Manage thousands of runs
- Simplified access to Condor
- "submit" Pegasus workflows
- Integrate into simulation tools

Look for tutorial Tuesday afternoon Creating and Deploying Scientific Tools





Ewa DeelmanUSC Information Sciences Institute

Many, Many More





Length of Trapezoid Top = 30nm

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Feature Length Sonn
Subtrable Length 10nm

Feature Length = 50nm

Substrate Length = 100nm

Rappture drawings



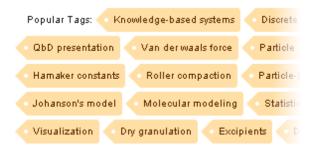
WYSIWYG wiki editor

h yourhub

User Profiles New hub template



Uploads Scanned for Viruses



Tag hierarchies and management



eMail Gateway for Tickets/Discussions

Available on the download page





http://hubzero.org/download

Vmware virtual machine images Debian packages

New applications: Data Management





Purdue
University
Research
Repository



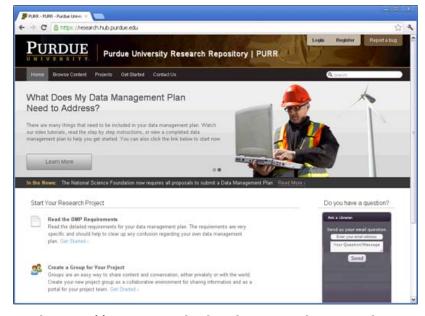
Michael Witt



Amy Hatfield



Courtney Matthews



http://reseach.hub.purdue.edu

- Data management solution for the masses
- Team effort: Purdue Libraries, Sponsored Programs, VPR, HUBzero
- HUBzero project areas for private collaboration
- Publication process with Digital Object Identifiers
- Seeking ISO 16363 Certification for Trustworthy Digital Repositories

New Applications: Online Education



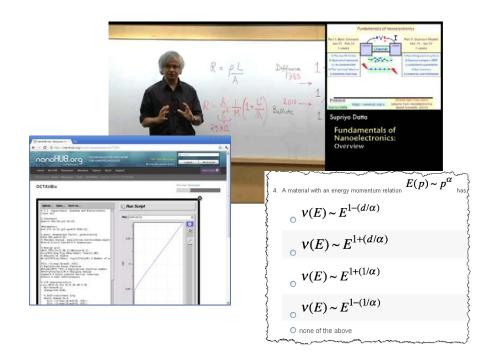


http://nanohub.org/u

5-week Courses
Taught Online

\$30 each

CEU credits available



- Recorded lectures
- Simulation tools
- Discussion forum
- Exams

What's Next?





Global community































- Non-profit organization
- Independent owner of HUBzero code
- Promotes dissemination and outreach
- Sponsors HUBbub Conference
- Coordinates software contributions

Join the Foundation









	Everyone	Foundation Participants
Access to HUBzero Open Source Releases	•	•
Up-to-the-minute access to HUBzero code base		•
Community interaction on HUBzero.org web site	•	•
Participation in regular technical meetings		•
Contribute code for others to use	•	•
Special recognition as "HUBzero Principal"		•

http://hubzero.org/about/foundation

HUBbub Agenda



Monday

Plenary Session

Noshir Contractor, Thomas Kurfess, Gerry McCartney, Ann Christine Catlin, Ewa Deelman

Lunch

Data Mgmt Workshop Building Scientific Tools (Part I)

Configuring & Managing Hubs

Banquet Dinner

Gameshow



Tuesday

Plenary Session

Gerhard Klimeck, David De Roure, Nancy Wilkins-Diehr, Jarek Nabrzyski, Andy Burnett, Dawn Weisman

Lunch

Science Gateways Workshop Building Scientific Tools (Part II)

Developmts

Q&A with

HUBzero

Team

New