

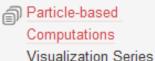


Tools



A E Dunamia Dallar Compactor

Resources



Tags

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100%





pharmaHUB Mission

- EVO tool: Resource for collaboration and sharing:
 - Science and engineering research on innovations in pharmaceutical manufacturing.
 - Information, knowledge, modeling & decision support tools for drug product & process design
 - Educational materials & experiences for education and training of *pharmaceutical technologists*.
- Sharing of research output of national projects
 - NSF ERC Structured Organic Particulate Systems
 - National Institute for Pharmaceutical Technology & Education (FDA support)



Tools Available

Particle-Surface Adhesion

Hopper Flow Discharge (DEM)

Rotating Drum (DEM)

High Shear Mixer (DEM)

Continuous Mixer (Compartment Model)

Roller Compactor

Dynamic Roller Compactor

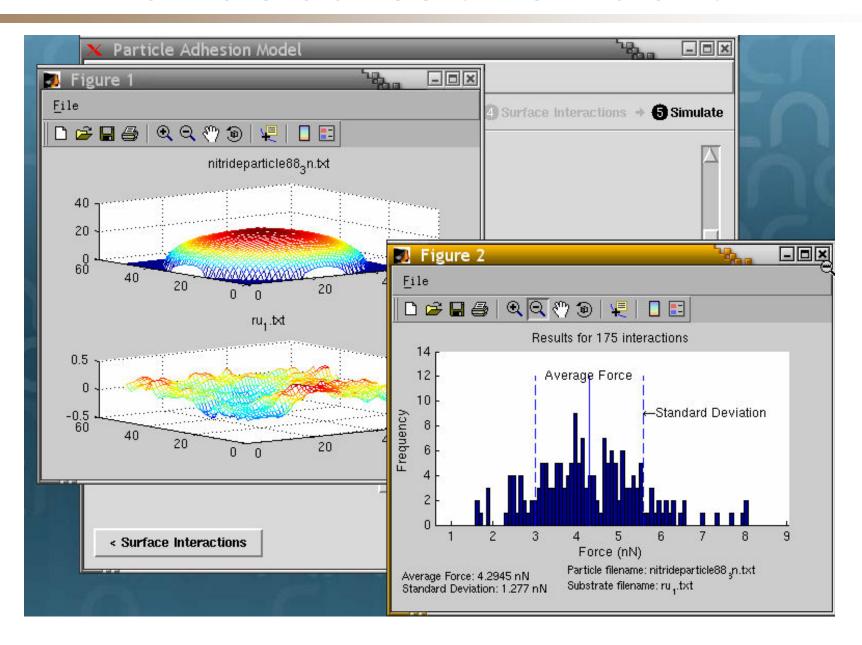
SWOOP Ontology Browser

MOPP: Multipurpose Operation Production Planner

Level Set Dissolution



Particle adhesion simulation

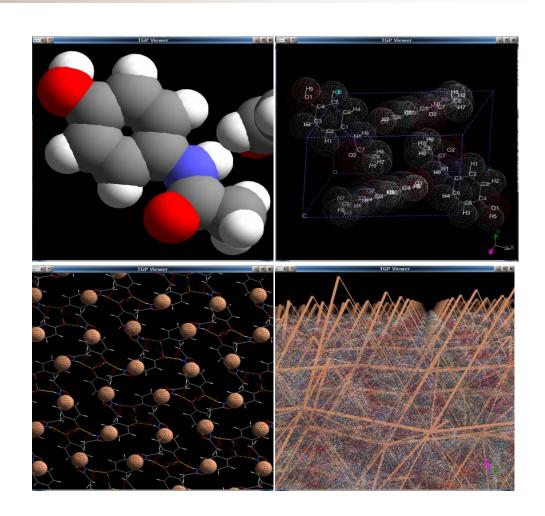




ViewStruct: Visualization of Crystal Structures

S Boerrigter, IPPH

- Unit cells, labels
 - View range
- Representation Options
 - Wire frame
 - Covalent
 - Corey-Pauling-Koltun
 - Van der Waals
- Contacts and Interactions
 - Hydrogen bonds
- Crystal Graph
 - Growth Units
- View Options
 - Lighting, Perspective, Depth

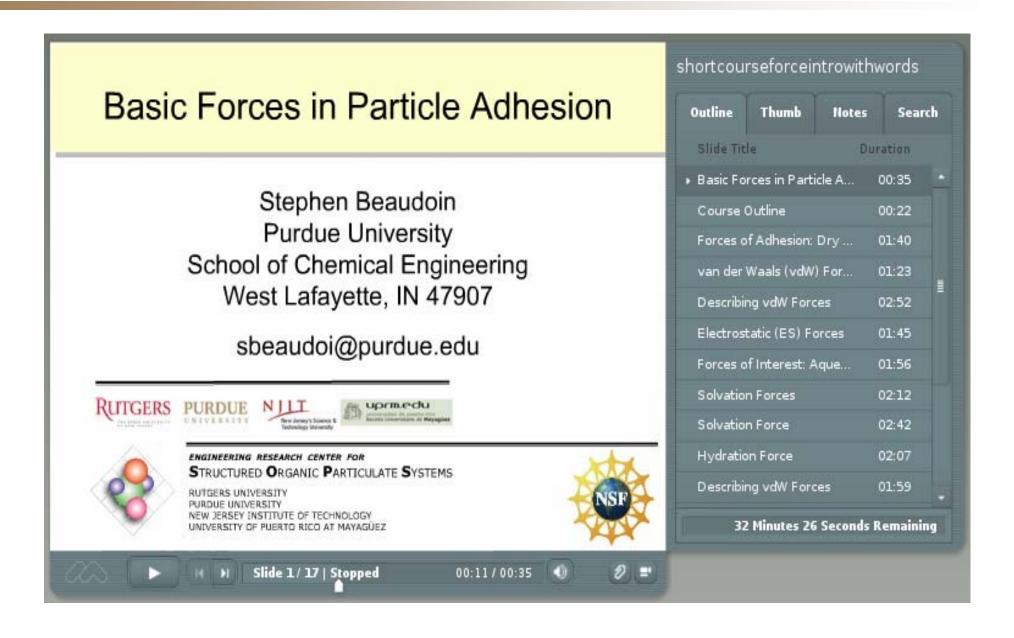


Current: Download

Future: Hub-based tool



Online Presentations





Long Term Development

- Visualization of particulate systems
- Model-based decision support
 - Generation and visualization of design space in process development
- Innovative learning modules for Pharma Engr degree
 - Convenient development, linking and use of complex modules involving simulations, presentations, videos, homework problems
- Growth of pharmaHUB community
 - Increase numbers of users, developers, contributors
 - New content, incentives
- New funding is being sought



pharmaHUB Usage (12/2007-6/2008)

Deployed on	12/11/2007
Hits	431,580
Visitors	1,411
Visits	3,671
Registered Accounts	118 (Current=163)
Simulation Users	82
Simulation Sessions	984
Elapsed Time	723 days
CPU Time	43 days
Interactive Time	81 days