

Cyber-Learning WG Update

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⇒ Proposed Cyber-Learning WG as a new one

⇒ Introduction Meeting for Cyber-Learning WG

- Cyber-Learning : An open, web & simulation based education & research environment for computational science & engineering
- Participants: 13 people from 9 institutes, 7 Countries
- 6 presentations related to the topics of e-/cyber-learning
 - ✓ Introduction on Development of EDISON (Ruth Lee, KISTI)
 - ✓ How to use EDISON system (Joon Lee, KISTI)
 - ✓ Architecture of Thai University Cloud (Putchong Uthayopas, KU)
 - ✓ Education Platform based on NCHC Co-Life (Hsi-Ching Lin, NCHC)
 - ✓ Supports and Cooperation in Bio (Kitty, National Supercomputing Center in Tianjin)
 - ✓ E-learning status in the univ. of HK (Wing-Keung Kwan, Univ. of HK)
- Discussions: Share information and situations of each institutes/countries on e-/cyber-learning
- ⇒ Co-chairs : Ruth Lee (KISTI), Hsi-ching Lin (NCHC), Putchong Uthayopas (KU)

➡ 2 EDISON Web Portals for PRAGMA Users (Currently Beta Version available)

The screenshot shows the EDISON Computational Chemistry web portal. The header includes the EDISON logo and navigation links for 'ABOUT' and 'SCIENCE APPSTORE'. The main content area features a central diagram illustrating the integration of different simulation scales: Quantum Systems (MMQS) at the bottom, Dynamics Systems (MMDS) above it, Bio & Complex Systems (MMBS & MMCS) above that, and Multiscale Systems (MMMS) at the top. The diagram is labeled with 'Length Scales' on the y-axis and 'Time Scales' on the x-axis. To the left of the diagram is a 'Login' section with fields for ID and PW, and buttons for 'Create Account' and 'Forgot password'. To the right is a 'Quick' section with buttons for 'Appstore', 'Simulation', and 'Virtual Lab'. Below the main content area is a 'System Resource Statistics' table and a 'News' section with a list of recent updates.

Cluster	Total	Used	Avail
vCluster	32	0	32

News: EDISON 포털 서비스가 2013년 9월 3...
강의교재 03
EDISON 데몬학교 강의자료 4 SW 등록예...
EDISON 데몬학교 강의자료 3 입출력프로...
EDISON 데몬학교 강의자료 2 사이버법

EDISON Web Portal for
Computational Chemistry
(<http://chem.edison-project.org>)

The screenshot shows the EDISON Nano-physics web portal. The header includes the EDISON logo and navigation links for 'ABOUT' and 'SCIENCE APPSTORE'. The main content area features a central 3D visualization of a crystal structure, labeled 'Crystalline GaAs bulk' and 'Arsenide'. To the left of the visualization is a 'Login' section with fields for ID and PW, and buttons for 'Create Account' and 'Forgot password'. To the right is a 'Quick' section with buttons for 'Appstore', 'Simulation', and 'Virtual Lab'. Below the main content area is a 'System Resource Statistics' table and a 'News' section with a list of recent updates.

Cluster	Total	Used	Avail
vCluster	32	0	32

News: There are no data

EDISON Web Portal for
Nano Physics
(<http://nano.edison-project.org>)

⇒ Funding for KISTI-NCHC International Collaborations on Cyber-Learning

- Duration: 01/08/2013~31/07/2015 (2 Years)
- Budget: 50M KRW/Year
- Funding Agency: KRCF (Korea Research Council of Fundamental science and technology)
- Project Name: Construction and Collaboration of Simulation based Cyber-Learning between Korea and Taiwan

➡ Possible future collaboration items with other WGs

- **Resource WG:** Collaboration in supporting physical/virtual computing resources and utilizing of middleware technology -> eventually provide the PRAGMA resources for the Cyber-Learning service
- **Tele-science WG:** Collaboration in supporting/developing remote visualization systems or SWs for results of computing(or data) intensive simulation -> eventually utilize the outcome for the post-processing on CL
- **Bio WG:** Collaboration on researches of computational bio-science (including the development of simulation SWs) -> eventually utilize the outcome for bio educations on CL

➡ Future Plans for WG activities

- Promote Cyber-Learning WG to activate and let more core members join
- Clarify the objectives and deliverables achieved by 2015 with core members
- Introduce EDISON system (one of Cyber-Learning systems developed by KISTI) to students and researchers in Taiwan by collaborating with NCHC
- Find out a way how to collaborate with other WGs
- Find out any possible collaboration items for Cyber-Learning such as platform, simulation SWs, digital contents, and so on

➤ Breakout Session I : 14:40~16:30, Oct. 17(Thur), 2013 (Room 504)

Presentations & Demos :

- Introduction of EDISON Web Portal for Nano Physics (Dr. Hoon Ryu, KISTI)
- Introduction of EDISON Web Portal for Computational Chemistry (Dr. Joon Lee, KISTI)
- Knowbita: Massive Online Open Course Infrastructure for Computing Education (Prof. Uthayopas, Putchong, KU)
- Introduction to e-learning for EM Education in Taiwan (Dr. His-Ching Lin, NCHC)
- **Open for any speakers....**

➤ Breakout Session II: 10:40~12:00, Oct. 18(Fri), 2013 (Room 504)

Discussions :

- Building a forum that exchange ideas, status, and best practice at a regular basis
- Sharing technologies/solutions developed by WG members
- Looking for collaborative opportunities among WG members
- Holding Cyber-Learning Workshop or EDISON Tutorials at PRAGMA 26
- Collecting ideas to make others join and actively work, etc.

➤ Breakout Session III : 14:00~15:30, Oct. 18(Fri), 2013 (Room 514)

Joint Session with Resource-Data WG & Bio WG

➤ Cyber-Learning related Poster Presentation : 16:30~17:30 Oct. 17, 2013

- Come and ask your questions on EDISON Web Portal: CFD, Nano-Physics, Computational Chemistry

Thank You!!!