Cyber-Learning WG Update

October 17, 2013

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Review of Last PRAGMA 24 Meeting



⇒ Proposed Cyber-Learning WG as a new one

⇒ Introduction Meeting for Cyber-Learning WG

- Cyber-Learning: An open, web & simulation based education & r esearch 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 Cente r 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)

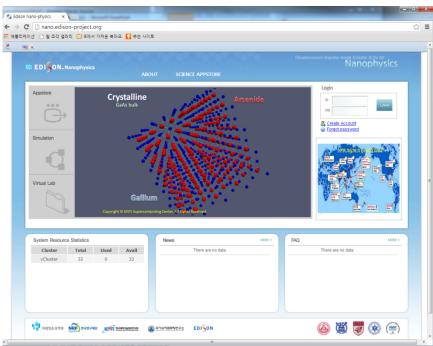
After PRAGMA 24 (I)



2 EDISON Web Portals for PRAGMA Users

(Currently Beta Version available)





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

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

After PRAGMA 24 (II)



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 F undamental science and technology)
- Project Name: Construction and Collaboration of Simulation based Cyber-Learning between Korea and Taiwan

After PRAGMA 24 (III)



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 s ystems or SWs for results of computing(or data) intensive simulation -> eventuall y 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, si mulation SWs, digital contents, and so on

Cyber-Learning WG Plan @PRAGMA 25 PRAGMA



- **⇒** 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 Chemist



Thank You!!!