



Web3D e-Learning Working Group Charter

Web3D Korea Chapter Meeting
SIGGRAPH 2010

July 29, 2010

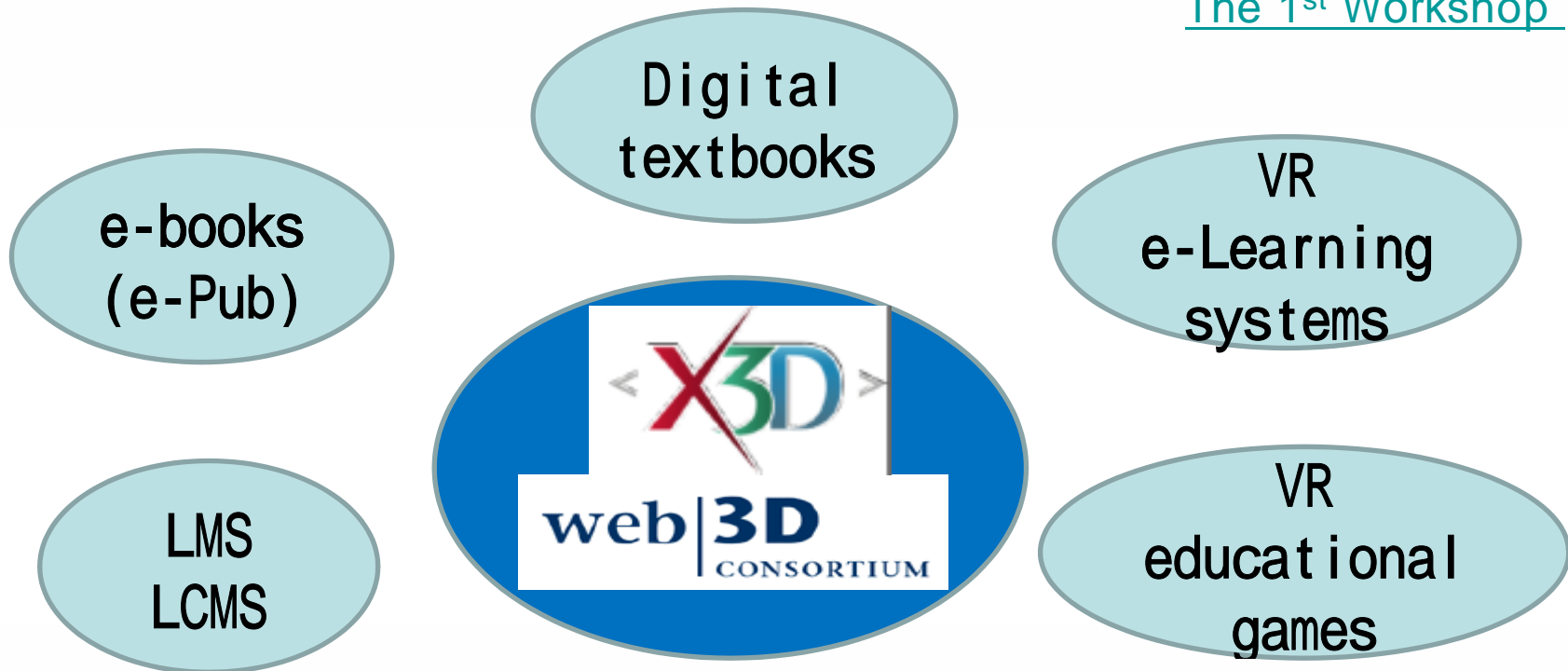
Kwan-Hee Yoo

Chungbuk National University, Korea

Vision

- Make it easier to create and use 3D e-Learning content based on X3D.

[The 1st Workshop](#)



Mission

- The purpose of the e-Learning WG Chapter is to promote its goals and technologies in the area of e-learning applications utilizing X3D.
- This is done by assisting with WG outreach efforts and by helping WGs for X3D specifications to define and use 3D graphics within e-Learning content as part of the e-Learning open architecture.
- These activities are intended to help as many members as possible effectively participate in the Web3D Consortium Working Groups.

Motivation (1/2)

- The extensible 3D (X3D) e-Learning project will create standards-based 3D content within e-Learning content.
- It will create a standards-based 3D infrastructure for visualizing or accessing all manner of 3D content and information constructs in an e-Learning context.
- Achievability of models using stable commercial tools and noncommercial international standards will ensure that 3D work remains accessible and reproducible for many years to come.

Motivation (2/2)

- The working group conducts itself with the following goals in mind:
 - To generate ideas for all possible alternatives for X3D in e-Learning content via brainstorming.
 - To discuss the main issues in the practical studies performed previously.
 - To select several realizable alternatives based on the formulated possible alternatives.
 - To select one alternative approach that is appropriate both technically and practically.
 - To review and provide feedback on the development plan for this approach.

GOALS (1/2)

- The working areas of the e-Learning WG cover all active areas of e-Learning applications of X3D in the Web3D Consortium as well as mobile e-Learning applications.
- The work will use the Web architecture, XML languages, and e-Learning open architecture to build a standards-based X3D e-Learning specification usable by governments, industry, scientists, academia, and the general public.

- **Specific technical objectives include:**
 - Supporting methods of X3D in LMS and/or LCMS
 - X3D e-Book (or digital textbook) Framework
 - design of an X3D e-Book (or digital textbook) framework
 - XML and X3D based e-Book (or digital textbook)
 - X3D e-Book (or digital textbook) Accessibility
 - X3D e-Book (or digital textbook) UI (user interactivity)
 - development of an X3D e-Book (or digital textbook) UI
 - design of UI components
 - design of learning supporting components
 - VR e-learning systems and VR educational games
 - Mobile X3D e-Book (or digital textbook)
 - expand the function of the X3D Interactive Profile
 - Other educational issues related to X3D

Liaisons

- Liaison efforts are vital in ensuring successful results are interoperable with existing and future infrastructures for the Web and related international communities.
 - [World Wide Web Consortium \(W3C\)](#)
 - XML
 - [International Standards Organization \(ISO\) JTC1/SC34](#)
 - E-Pub, ODF
 - [International Standards Organization \(ISO\) JTC1/SC36](#)
 - Learning Management Systems
 - [International Standards Organization \(ISO\) JTC1/SC24](#)
 - Computer Graphics
 - IMS Global Learning Consortium

Participation(1/2)

- Primary X3D e-Learning efforts are coordinated and performed within the "safe haven" of a Web3D Consortium working group. This is the follow-on effort to the [Web3D e-Learning Working Group](#).
- [Members](#) include commercial companies, nonprofit organizations, government agencies, academic institutions, and individual professionals.

Participation (2/2)

- Working Group Committee

- Cochairs

- Don Brutzman, Naval Postgraduate School MOVES Institute, USA
- Kwan-Hee Yoo, Chungbuk National University, Korea

- Members

- Richard F. Puk, Intelligraphics Incorporated, USA
- Yong-Sang Cho, KERIS, Korea
- Myeong-Won Lee, Suwon University, Korea
- Yong Suh, California State University, USA
- Francesco Di Cerbo, Free University of Bolzano-Bozen, Italy
- MIT

To join

Don Brutzman
brutzman@nps.edu

Kwan-Hee Yoo
khyoo@cbnu.ac.kr