Stretching the Edges of Technology-Enhanced Teaching: From Tinkering to Tottering to Totally Extreme Learning

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Audience Poll: Raise your hands if learning technology has ever transformed your life.

Change not possible as an accountant...
(Life as a CPA, 1981-1986)

Decided to Read, Read, Read...
(e.g., People like Albert Bandura, Howard Gardner, Roger Schank, Elliot Soloway, etc.)

Took Correspondence & TV Courses
(thanks to Bob Clasen and Charles Wedemeyer, the University of Wisconsin)

Fast Forward 25 Years...
"Anyone can now learn anything from anyone at any time."
The Triple Convergence

<table>
<thead>
<tr>
<th>The Flat World P's</th>
<th>The Open World P's</th>
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<tbody>
<tr>
<td>1. Processes Levelled</td>
<td>1. Piping/Infrastructure</td>
</tr>
<tr>
<td>2. Playing Field Equalized</td>
<td>2. Pages of Content</td>
</tr>
<tr>
<td>3. Participants</td>
<td>3. Participatory Culture</td>
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WE-ALL-LEARN:
Ten Forces that Opened the Learning World

Web Searching in the World of e-Books
E-Learning and Blended Learning
Availability of Open Source and Free Software
Leveraged Resources and OpenCourseWave
Learning Object Repositories and Portals
Learner Participation in Open Info Communities
Electronic Collaboration and Interaction
Alternate Reality Learning (e.g., MMOG, Second Life)
Real-Time Mobility and Portability (e.g., iPhone)
Networks of Personalized Learning (Blogs, RSS)

Audience Participation!
1. WE
2. ALL
3. LEARN!!!

The World is Open
(at Ewha Womans University)

It is very open!

Yonsei University, Seoul, Korea
Tinkering...

Tinkering #1. Cases and Video Scenario Learning

Tinkering #2. Tracking the Life of a Scientist (e.g., Brian J. Ford, independent scientist)

Tottering...

Totter #1. Wikibooks, Wiki-Glossaries, Wiki-Syllabi (Ron Owston, York University, Toronto)

Totter #2. Student Films and Documentaries

http://www.youtube.com/user/TeddyMunch/Fp/a/u/1/LMGAndKlass

Watch the BBC film to see how the experiment.

The World Is Open
We are entering a jumping off point...

Jumping to Extreme Learning

Totally Extreme Learning...

Totally Extreme #1.
Blogging Field Archeology Research
(e.g., Lily Henry Roberts, UCLA digging in Hope, BC, Stó:lo First Nation people from 12,000 years ago)

Totally Extreme #2.
Google Earth Archeology Research
(e.g., 450 sites of interest in Afghanistan found by David Thomas, La Trobe Univ., Melbourne, Australia)

Totally Extreme #3.
Virtual High School Learning by Boat
(e.g., Bridy Fennell and her family sailing and learning in the Caribbean)
Totally Extreme #4.
Kids Learn Online, Teach Online
(e.g., the World's Youngest Teacher; Adora Svitak)

Totally Extreme #5.
iPod Learning from MIT OCW
(e.g., Wendy Ermold, University of Washington)

Totally Extreme #6.
Learning from Localized OER and OCW
(e.g., OpenSource OpenCourseware Prototype System (OOPS), Lucifer Chu, Janitor of OOPS)
The Biggest OCW Localization Volunteer Group in the World

Totally Extreme #7.
Global and Environmental Education
(e.g., Cassandra Brooks: The Last Ocean Project, Ice Stories, and Shark Theater: a 24 seat inflatable screen and outdoor ocean theater to tiny islands)

Totally Extreme #8.
Online Language Learning
(e.g., 300,000 people per month listening to ChinesePod, co-hosted by Jenny Zhu, John Pasden, and Ken Carroll)

Totally Extreme #9.
Shared Online History Videos
(e.g., "History for Music Lovers" with over 50 songs including: Trojan War "Tainted Love" by Soft Cell; Charlemagne "Call Me" by Blondie, Cleopatra, Napoleon, Shakespeare, the Vikings)
DREAMS: Design Research for an Engaging and Active Mobile System

What are your Extreme Learning HOPES and DREAMS?
Website: www.Extreme-Learning.com
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Extreme Learning "Stretches the Edges" of Humanity

Document, Catalog, Grasp, Connect, Inspire Others...