

## **Teaching, Learning, and Technology in Higher Education**

Project examples from the 2008 HP Technology for Teaching Worldwide Higher Education Conference

### **Index by Keyword**

#### 2-D Visualization

Valdosta State University (p94)

#### 3-D Models

Seattle University (p68)

#### 3-D Visualization

Valdosta State University (p94)

#### Action Learning

Pusan National University (p62)

#### Active Learning

California State University San Marcos (p15)

Clemson University (p18)

DePaul University (p23)

Duke University (p26)

Eastfield College (p27)

Farleigh Dickenson University (p31)

Montgomery County Community College (p47)

Penn State Harrisburg (p58)

Universitatea Politehnica din Bucuresti (p86)

Virginia Western The Community's College (p95)

Washington University in St. Louis (p96)

#### Agricultural

##### Agricultural, Business

Sam Houston State University (p65)

##### Agricultural, Education

Sam Houston State University (p65)

##### Agricultural, Mechanization

Sam Houston State University (p65)

#### Agronomy

Sam Houston State University (p65)

ArcGIS (see Software, ArcGIS)

Augmented Reality

Universidade Federal do Rio do Sul (p77)

Biomedical

University of Pavia & San Matteo Hospital Trust (p85)

Blackboard (see Virtual Classroom, Blackboard)

Circuits

Asociacion ORT (p10)

CIS Course

Montgomery County Community College (p47)

Collaborative Tool

University of Guelph (p90)

Collaborative/ Cooperative Learning and Group Work

Bowdoin College (p14)

California State University San Marcos (p15)

California State University Monterey Bay (p16)

Eastfield College (p27)

Communication

Montgomery County Community College (p47)

Computer Assisted Assesment

Universitatea Politehnica din Bucuresti (p86)

Computer Based Experiments

The City College of New York (p72)

Computer Graphics

Universidade do Minho (p83)

Computer Programming

UFG Instituto de Informatics (p84)

Computer Science (see Science, Computer)

Computer Technology

Commonwealth Technical Institute (p19)

Mount Wachusett Community College (p49)

Concept Maps

Massey University (p44)

Deaf Students

Christchurch Polytechnic Institute of Technology (p17)

Department of Education

Pusan National University (p62)

Dynamics

Robert Morris University (p63)

E-Learning

University of Madrid, GIO (p82)

York University (p97)

Ebooks

San Jose State University

Economics

DePauw University (p24)

Electronic Portfolios

Massey University (p44)

Electronics

Ecole Centrale de Lyon (p28)

Engineering

Clemson University (p18)

Hampton University (p32)

Tecnológico de Monterey(36)

National Chung Cheng University, Computer Science and Information Engineering Dept.  
(p51)

National University, San Diego (p52)

Penn State Harrisburg (p58)

Robert Morris University (p63)

Santa Clara University (p67)

Southwestern Oregon Community College (p70)

UNIMINUTO (p78)

Universidad de las Americas Puebla (p80)

University of California Santa Cruz (p89)

University of Technology Sydney (p93)

Valdosta State University (p94)

Engineering, Biomedical

Duke University (p26)

Engineering, Civil

Duke University (p26)

Engineering, Computer

Duke University (p26)

Slovak Technical University (p30)

Indian Institute of Technology Guwahati (p33)

National Chiao Tung University (p50)

Purdue University (p61)

San Jose State University (p66)

Engineering, Design

Universidad de las Americas Puebla (p80)

Engineering, Electrical

Duke University (p26)

Ecole Centrale de Lyon (p28)

Penn State Harrisburg (p58)

Purdue University (p61)

Universidad de Leon (p81)

Engineering, Electronics

Universitatea Politehnica din Bucuresti (p86)

Engineering, Environmental

Boise State University (p12)

Engineering, Mechanical

Duke University (p26)

Engineering, Software

Christchurch Polytechnic Institute of Technology (p17)

Engineering, Systems

Universidad de Leon (p81)

Engineering, Thermodynamics

The University of Queensland Australia (p75)

Experiential Learning

Boise State University (p12)

Field Based Data Collection

Asociacion ORT (p10)

Bluegrass Technical Community College (p11)

Boise State University (p12)

De Anza College (p21)

Del Mar College (p22)

Lawrence University (p39)

Neosho County Community College (p53)

Owensboro Community and Technical College, (p56)

Sam Houston State University (p65)

Southeast Missouri State University (p69)

Universidad de Puerto Rico (p92)

Field Samples

Northern Essex Community College (p54)

## Fieldwork

State University of New York (p71)

## Geology

Louisiana State University (p40)

Geology, Field Experiments

Valdosta State University (p94)

## Geophysics

Louisiana State University (p40)

## GIS (Geographic Information System)

Boston College (p13)

De Anza College (p21)

Del Mar College (p22)

Maryville University (p43)

Nova Scotia Community College (p55)

Sam Houston State University (p65)

Southeast Missouri State University (p69)

Washington University in St. Louis (p96)

## GPS

Bluegrass Technical Community College (p11)

De Anza College (p21)

Del Mar College (p22)

Maryville University (p43)

Nova Scotia Community College (p55)

Southeast Missouri State University (p69)

## Graphic Calculator

Piedmont Community College (p59)

## Graphics

Ain Shams University (p9)

## Handicapped Student

National Chung Cheng University (p51)

## High school

Santa Clara University (p67)

## Human-Computer Interaction

PUC-Rio (p60)

## Information Systems

University of Madrid, GIO (p82)

## Information Technology

Saint Petersburg State University (p34)

Virginia Western The Community's College (p95)

## Interactive Visual Models

Seattle University (p68)

#### Language

Christchurch Polytechnic Institute of Technology (p17)  
DePauw University (p24)  
Ecole Centrale de Lyon (p28)

#### Learning Disabilities

Christchurch Polytechnic Institute of Technology (p17)  
Commonwealth Technical Institute (p19)

#### Logo Mindstorms

National Chiao Tung University (p50)

#### Management Information Systems

San Jose State University (p66)

#### Maps

Southeast Missouri State University (p69)

#### Mathematics

Ain Shams University (p9)  
California State University Monterey Bay (p16)  
Christchurch Polytechnic Institute of Technology (p17)  
Clemson University (p18)  
Diablo Valley Community College (p25)  
Ecole Centrale de Lyon (p28)  
Farleigh Dickenson University (p31)  
J.F. Drake State Technical College (p38)  
Louisiana State University in Shreveport (41)  
National Chung Cheng University (p51)  
Piedmont Community College (p59)  
University of Central Arkansas (p74)

#### Mathematics, III (Vectorial Analysis)

UABC Campus Ensenada (p79)

#### Mathematics, Algebra II

Mount Wachusett Community College (p49)

#### Mathematics, Calculus

Diablo Valley Community College (p25)  
UNIMINUTO (p78)

#### Mathematics, Differential Equations

UABC Campus Ensenada (p79)

#### Mathematics, Discrete

Minghsin University of Science and Technology (p46)

Mathematics, Maple (See Software Maple)

#### Middle School

Piedmont Community College (p59)

Mimic Builder

National Chung Cheng University (p51)

Mobile Geomatics Lab

Nova Scotia Community College (p55)

Modeling

Boise State University (p12)

Boston College (p13)

Del Mar College (p22)

Northern Essex Community College (p54)

NoteBlogging

University of California San Diego (p88)

Object Oriented Analysis

National Hispanic University (p73)

Open Source

Christchurch Polytechnic Institute of Technology (p17)

Online Lab Notebooks

Purdue University (p61)

Online Learning (See Virtual Classroom)

Peer Learning Groups

Louisiana State University in Shreveport (41)

Physics (see Science, Physics)

Podcasting

Ecole Centrale de Lyon (p28)

Probeware

The City College of New York (p72)

Problem Based Learning

Tecnológico de Monterey(36)

Massey University (p44)

UFG Instituto de Informatics (p84)

Problem Solving

Valdosta State University (p94)

York University (p97)

Programming (see also Science, Computer)

OO Programming

University of Massachusetts Lowell (p91)

Psychology

DePauw University (p24)

Real-time student responses  
Christchurch Polytechnic Institute of Technology (p17)  
Clemson University (p18)

Real-World Experiments  
Valdosta State University (p94)

Research Methods  
University of The West of England (p76)

Science  
Valdosta State University (p94)

Science, Animal  
Sam Houston State University (p65)

Science, Agricultural  
Sam Houston State University (p65)

Science, Astronomy  
Northern Essex Community College (p54)

Science, Biochemistry  
Moravian College, Department of Chemistry (p48)  
Seattle University (p68)

Science, Biology  
DePauw University (p24)  
Maryville University (p43)  
Owensboro Community and Technical College, (p56)

Science, Chemistry  
Bluegrass Technical Community College (p11)  
DePauw University (p24)  
Eastfield College (p27)  
Moravian College, Department of Chemistry (p48)  
Parkland College, (p57)  
National Hispanic University (p73)

Science, Computational  
The University of Queensland Australia (p75)

Science, Computer  
Bowdoin College (p14)  
Clemson University (p18)  
DePaul University (p23)  
DePauw University (p24)  
Ecole Centrale de Lyon (p28)  
Farleigh Dickenson University (p31)  
Hampton University (p32)

Indian Institute of Technology Guwahati (p33)  
ITESO University (p37)  
Loyola University Chicago (p42)  
Montgomery County Community College (p47)  
National Hispanic University (p73)  
Universidade Federal do Rio do Sul (p77)  
UFG Instituto de Informatics (p84)  
University of California Santa Cruz (p89)  
University of Guelph (p90)  
University of Massachusetts Lowell (p91)  
Virginia Western The Community's College (p95)

Science, Earth

Northern Essex Community College (p54)

Science, Ecology

Owensboro Community and Technical College, (p56)

Science, Environmental

Boston College (p13)  
De Anza College (p21)  
Lawrence University (p39)  
Maryville University (p43)  
Neosho County Community College (p53)  
Southeast Missouri State University (p69)  
State University of New York (p71)

Science, Forestry

State University of New York (p71)

Science, Industrial Technology

Sam Houston State University (p65)

Science, Materials

Ecole Centrale de Lyon (p28)

Science, Mechanics

Ecole Centrale de Lyon (p28)

Science, Meteorology

Northern Essex Community College (p54)

Science, Physical Geology

Northern Essex Community College (p54)

Science, Physical Chemistry

Seattle University (p68)

Science, Physics

Ain Shams University (p9)  
California State University San Marcos (p15)

DePauw University (p24)  
Louisiana State University in Shreveport (p41)  
Parkland College, (p57)  
The City College of New York (p72)

#### Simulators

Universidad de Leon (p81)

#### Software

Software, 3-D Visualization  
University of Central Arkansas (p74)

Software, ArcGIS  
Maryville University (p43)  
Southeast Missouri State University (p69)

Software, ArcView  
Boston College (p13)

Software, Calico  
University of California Irvine (p87)

Software, Camtasia  
Darton College (p20)

Software, Classroom Presenter (Free)  
Asociacion ORT (p10)  
Bowdoin College (p14)  
Duke University (p26)  
Hampton University (p32)  
Mount Wachusett Community College (p49)  
Ming Chuan University (p45)  
PUC-Rio (p60)  
Robert Morris University (p63)  
Universidad de las Americas Puebla (p80)  
UFG Instituto de Informatics (p84)  
University of Pavia & San Matteo Hospital Trust (p85)  
University of California Santa Cruz (p89)

Software, CMap  
Louisiana State University (p40)

Software, CodeLab  
Farleigh Dickenson University (p31)

Software, Comapping (under development)  
Saint Petersburg State University (p34)

Software, Computational-Chemistry  
Washington University in St. Louis (p96)

Software, DyKnow  
Eastfield College (p27)  
Farleigh Dickenson University (p31)  
National University, San Diego (p52)  
University of Central Arkansas (p74)  
The University of Queensland Australia (p75)

Software, Equation Writer  
UABC Campus Ensenada (p79)

Software, free  
University of Technology Sydney (p93)

Software, GeoGebra  
UABC Campus Ensenada (p79)

Software, Group Scribbles  
UFG Instituto de Informatics (p84)  
University of Pavia & San Matteo Hospital Trust (p85)

Software, Final Draft  
Montgomery County Community College (p47)

Software, InkSurvey  
Universidad de las Americas Puebla (p80)

Software, Google Earth  
Louisiana State University (p40)

Software, Jarnal  
UFG Instituto de Informatics (p84)

Software, Lab Pro  
Neosho County Community College (p53)

Software, LABVIEW  
Universitatea Politehnica din Bucuresti (p86)

Software, LinQ  
Montgomery County Community College (p47)

Software, Logger Pro  
Moravian College, Department of Chemistry (p48)

Software, Maple  
Farleigh Dickenson University (p31)  
J.F. Drake State Technical College (p38)

Software, Mathematica

Diablo Valley Community College (p25)  
Louisiana State University in Shreveport (p41)  
University of Central Arkansas (p74)

Software, MatLab

UABC Campus Ensenada (p79)  
Universitatea Politehnica din Bucuresti (p86)

Software, MessageGrid (Free Beta)

Clemson University (p18)

Software, Moodle (Free, Open Source)

Ain Shams University (p9)  
Indian Institute of Technology Guwahati (p33)  
UABC Campus Ensenada (p79)

Software, MS Excel

Moravian College, Department of Chemistry (p48)  
Piedmont Community College (p59)

Software, MS Journal

University of Pavia & San Matteo Hospital Trust (p85)  
Valdosta State University (p94)  
York University (p97)

Software, MS Math

University of Central Arkansas (p74)

Software, MS OneNote

Louisiana State University (p40)  
Ming Chuan University (p45)  
Minghsin University of Science and Technology (p46)  
Montgomery County Community College (p47)  
Moravian College, Department of Chemistry (p48)  
National University, San Diego (p52)  
Owensboro Community and Technical College, (p56)  
Penn State Harrisburg (p58)  
PUC-Rio (p60)  
Robert Morris University (p63)  
UABC Campus Ensenada (p79)  
University of Pavia & San Matteo Hospital Trust (p85)  
York University (p97)

Software, MS PowerPoint

Moravian College, Department of Chemistry (p48)

Software, MS Visio

Montgomery County Community College (p47)  
PUC-Rio (p60)

Software, MS Word  
Minghsin University of Science and Technology (p46)

Software, Netsupport  
Moravian College, Department of Chemistry (p48)  
Penn State Harrisburg (p58)  
Seattle University (p68)

Software, NewMindsets  
York University (p97)

Software, Speech Recognition  
Universitatea Politehnica din Bucuresti (p86)

Software, SPICE  
Universitatea Politehnica din Bucuresti (p86)

Software, Stella  
Boise State University (p12)

Software, TechSmith Camtasia Studio  
PUC-Rio (p60)

Software, Ubiquitous Presenter (Free)  
California State University San Marcos (p15)  
Duke University (p26)  
Piedmont Community College (p59)  
UFG Instituto de Informatics (p84)  
University of California San Diego (p88)

Software, Vernier Probes  
Neosho County Community College (p53)  
Owensboro Community and Technical College, (p56)

Software, WriteOn  
Universidad de las Americas Puebla (p80)

Studio-Like Software Design  
University of California Irvine (p87)

Sustainability  
Santa Clara University (p67)

Teacher Education  
Boston College (p13)

Three dimensional  
Moravian College, Department of Chemistry (p48)

TI Voyage 200 Calculator  
University of Central Arkansas (p74)

Urban Ecology  
Boston College (p13)

Urban Education  
Boston College (p13)

Video Conferencing  
Pusan National University (p62)

Virtual Office Hours  
Darton College (p20)

Virtual Classroom  
Indian Institute of Technology Guwahati (p33)

Virtual Classroom, Blackboard  
Loyola University Chicago (p42)  
Moravian College, Department of Chemistry (p48)  
Virtual Classroom, Moodle  
Ain Shams University (p9)

Virtual laboratories  
Universidad de Leon (p81)

Visual Arts  
Universidade Federal do Rio do Sul (p77)

WebCT  
Valdosta State University (p94)

WebMath  
National Chung Cheng University (p51)

Wiki  
University of Massachusetts Lowell (p91)

Women in Science & Engineering  
DePaul University (p23)