

## Blended Learning Situations, Solutions, and Several Stunning Surprises

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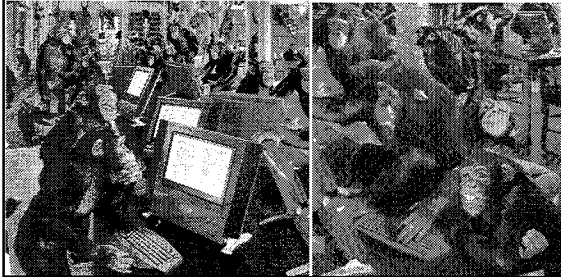


## This the talk will cover:

1. Definitions of blended learning
2. Advantages and disadvantages
3. Models of blended learning
4. Examples of blended learning
5. Implications for blended learning



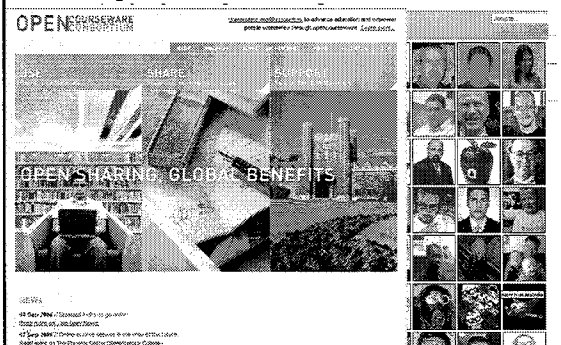
## Ten Technology Trends During Past Year



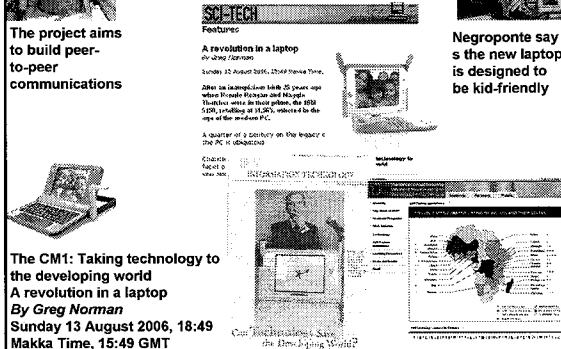
### 1. Blackboard Buying and Suing



## 2. Open Source Courseware



## 3. Accessible Technology



#### 4. Wikis: Wikipedia, Wikibooks, Wiktionary, Wikiversity

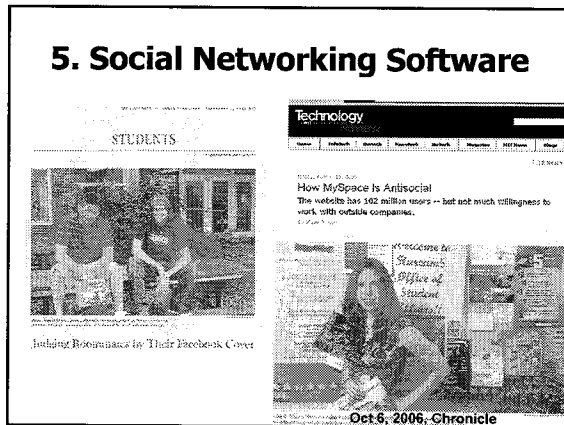


#### Time: 100 People Who Shaped Our World (2006)

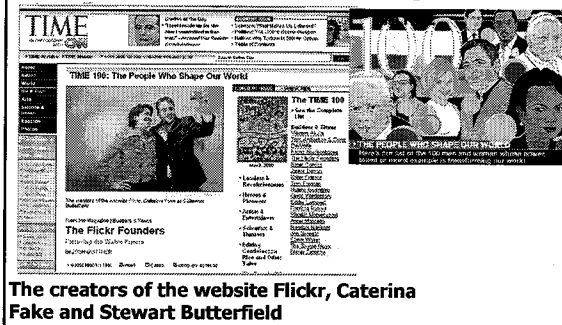


Jimmy Wales: The (Proud) Amateur Who Created Wikipedia

#### 5. Social Networking Software

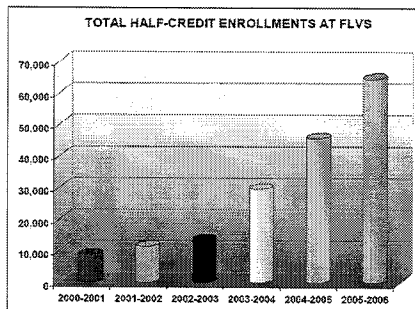


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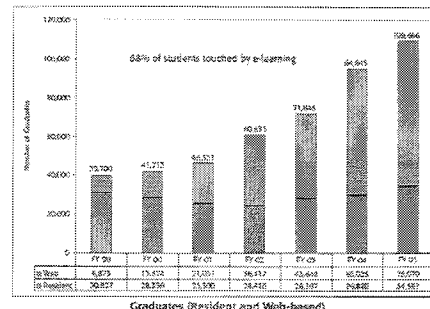


The creators of the website Flickr, Caterina Fake and Stewart Butterfield

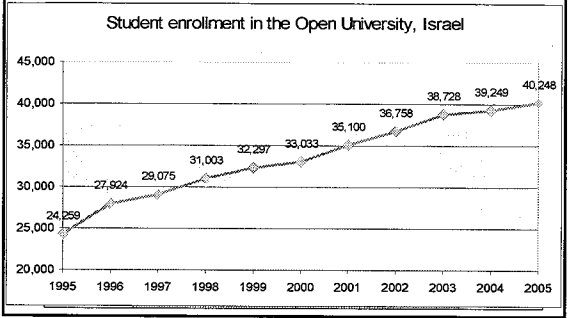
#### 6. Growth of Online Learning in Secondary Schools



#### Defense Acquisition University Shaping a Culture of Career-Long Learning

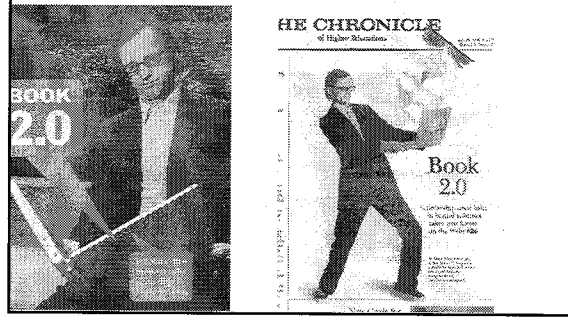


## Open University of Israel (overall enrollment growth)



The Seattle Times, September 11, 2006, Jordan Cruz, 14, had no interest in going to a big high school. The Insight School of Washington, the state's first fully online high school, will allow him to work in the way he likes best: independently...from the comforts of home via the Internet)

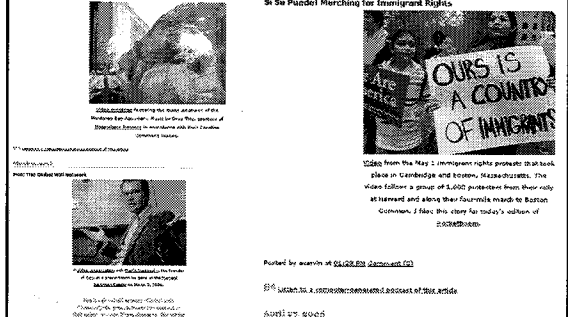
## 7. Online Scholarship and Online Books



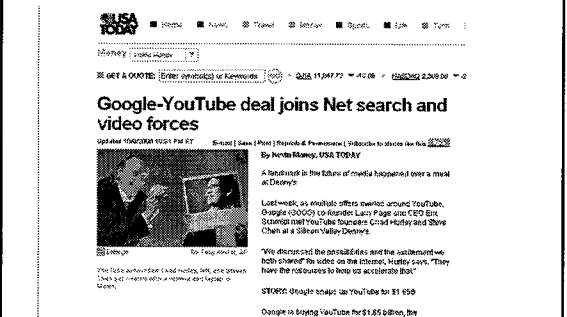
## 8. Digital Storytelling and Movie Making



## 9. The Emergence of Video (e.g., video blogging)



## YouTube Emerges...1.65 billion dollars later



## 10. Podcasting and Vodcasting

(e.g., Podcast Alley, Chris McIntyre...)



## Blended Learning: Two Parts

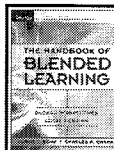


1. Models and Frameworks
2. Problems and Solutions (i.e., examples)



## Part 1. Handbook of Blended Learning (HOBLe)

- University of Phoenix, Capella University, JIU, National University
- Microsoft, IBM, Sun, Cisco, Macromedia, Oracle, WebCT
- The World Bank, the DOD in USA
- In Canada: York University and the University of Calgary
- Other universities in Japan, Korea, Malaysia, Singapore, China, NZ, South Africa, Israel, Mexico, Australia, Wales, England, USA



Poll #1. Have you taught, taken, or designed a blended learning course?

A = yes

B = no

C = not sure, I am here to find out what blended means



## Poll #2. What are you???

- A. Tutor, professor, trainer, instructor, lecturer, adjunct, visiting scholar
- B. Director or staff in a learning center, instructional designer, etc.
- C. Policy maker, government official
- D. Administrator, Dean, President, etc.
- E. Graduate student, informal learner
- G. Other

## Poll #3: Burning Blended Learning Q's

(Pick any that interest you)

- A. What does blended learning mean?
- B. What is typically being blended?
- C. How much to blend?
- D. Why blend (advantages and disadvantages)?
- E. Where is this all headed?

Chris Dede, Campus Technology, June 2006:  
Changing the Gold Standard for Instruction

- "There is a widespread misconception that, for everyone, face-to-face is the "gold standard" in education, and that any kind of mediated interaction is second best. But we know from research, that's not true."

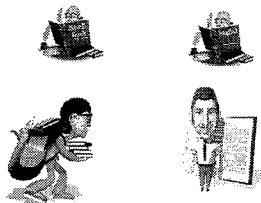


Chris Dede, Campus Technology, June 2006:  
Changing the Gold Standard for Instruction

- "Face-to-face may be best for most faculty...However, we know that many students who are silent in classroom discussions find their voice and participate actively in different flavors of mediated interaction."



## Blended Learning Defined and Explained



The Sloan Consortium  
(2003). Sizing the Opportunity: The Quality and Extent of  
Online Education in the U.S., 2002 and 2003  
[http://www.sloan-c.org/resources/sizing\\_opportunity.pdf](http://www.sloan-c.org/resources/sizing_opportunity.pdf)

Percentage of content delivered online	Type of Course	Typical Description
0%	Traditional	Course with no online technology used - content is delivered in writing or orally.
1 to 29%	Web facilitated	Course which uses web-based technology to facilitate what is essentially a face-to-face course. Might use Blackboard or WebCT to post the syllabus and assignments, for example.
30 to 79%	Blended/Hybrid	Course that is a blend of the online and face-to-face course. Substantial proportion of the content is delivered online, typically uses online discussions, typically has some face-to-face meetings.
80+%	Online	A course where the vast bulk of the content is delivered online. Typically has no face-to-face meetings.

### 1. Blending Delivery Media

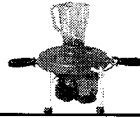
- "Blended learning means the combination of a wide range of learning media (instructor led, web based courseware, simulations, job aids, webinars, documents) into a total training program designed to solve a specific business problem." (Bersin & Associates, 2003, p. 3)

### 2. Blending Instructional Methods

- "Blended learning: to combine various pedagogical approaches (e.g., constructivism, behaviorism, cognitivism) to produce an optimal learning outcome with or without instructional technology." (Driscoll, 2002, p. 54)

### 3. Blending Online and F2F Instruction

- "Blended learning refers to events that combine aspects of online and face-to-face instruction" (Rooney, 2003, p. 26; Ward & LaBranche, 2003, p. 22)



### Who is demanding fully online and blended learning?



Learning TRENDS by Elliott Masie - September 5, 2006.  
 #399.5 - Updates on Learning, Business & Technology.  
 52,716 Readers - <http://www.masie.com> - The MASIE Center

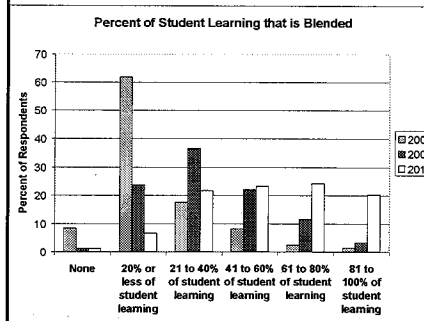
#### Average Percentage of Learning Delivery Methods (240 organizations in learning Masie consortium):

- 46% Classroom.
- 27% e-Learning.
- 19% Blended.
- 10% Other Methods.

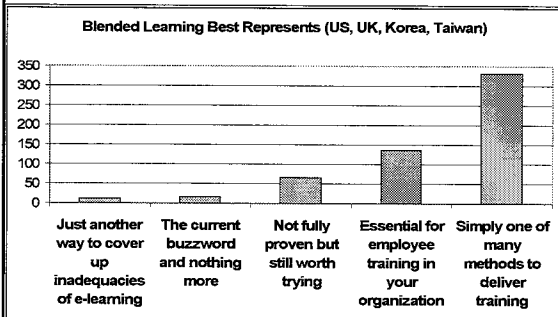
Classroom Delivery is used for Leadership/Supervision; Sales/ Customer Service; Orientation/OnBoarding.

E-Learning Delivery is used for HR Compliance; Safety; IT Systems/Software.

### Future Directions of Blended Learning (Bonk, Kim, & Zeng, 2006, Chapter 39)



### Instructional approaches or strategies that will be more widely used in BL during coming decade (Bonk et al., 2006).



### 3-4 Skills Most Taught Through Blended

- UK: Computer Applica, Job, Communication, Personal Devel Skills
- US: Computer Applica, Job, New Hire Orientation, Leadership
- =====
- Korea: Job Related, Leadership, New Hire Orientation, Basic Skills
- Taiwan: Job Related, New Hire Orientation, Communication Skills

### 3-4 Skills Least Taught Through Blended

- UK: Ethics, New Hire Orient, Basic Skills, Exec Ed
- US: Basic Skills, Sales/Marketing, Programming, Product Specific, Professional

=====

- Korea: Product Specific, Diversity, Customer Product Training, Compliance
- Taiwan: Diversity, Exec Education, Programming, Leadership, Product Specific, Business Practices

### More than 70 Million Adults Want to Head Back to School

August 22, 2006, Yahoo News

Report: "Degrees of Opportunity" from Capella University

- **Degrees of Opportunity**, a new national study of the attitudes of adult Americans toward continuing their education, indicates that more than half of American adults age 25 to 60 would like to pursue additional education -- the equivalent of more than 70 million adult Americans.

### Why Blend and Advantages and Disadvantages of BL...



### Why Teaching Fully Online or Blended? Three Key Reasons

1. **Improved Pedagogy**
  - Interactive vs. Transmissive environments
  - Authenticity integration into work
2. **Increased Access/Flexibility**
  - Reduced seat time courses – UCF M courses
3. **Increased Cost Effectiveness**
  - Corporate: ROI – IBM 47:1, Avaya, Microsoft
  - Higher Ed: PEW Grants

### Where is Blended Beneficial?

<http://www.center.rpi.edu/PewGrant/ProjDesc.html>

- **Large Classes** (spanish, intro psych, algebra, elementary statistics, biology)
- **Classes with working students**
- **Students spread over a distance**
- **Classes with certification**
- **Classes with need for standardization**
- **New requirements for a profession**
- **Writing intensive classes**
- **Theory classes**



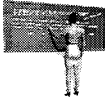
### Examples of Blended Learning, Margaret Driscoll, e-Learning, March 2002

- Put assessments/reviews online
- Follow-up in community of practice
- Put reference materials on Web
- Deliver pre-work online
- Provide office hours online
- Use mentoring/coaching tool
- Access experts live online
- Use e-mail and instant messaging



## Fully Online and Blended Learning Advantages

1. Increased Learning (better papers, higher scores)
2. More effective pedagogy and interaction
3. Course access at one's convenience and flexible completion (e.g., multiple ways to meet course objectives)
4. Reduction in physical class or space needs, commuting, parking
5. Increased opportunities for human interaction, communication, & contact among students
6. Introverts participate more

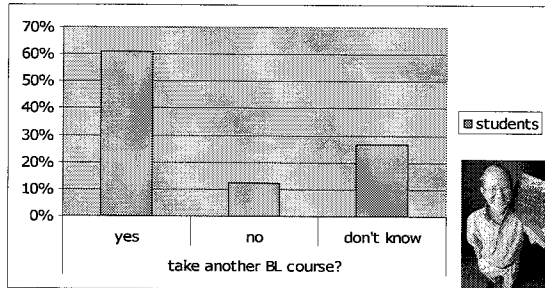


## Enriching Student Experience Through BL (Bob Albrecht, ECAR, June 6, 2006, Educause)

1. Address diverse learners (low stakes quizzes)
2. Student satisfaction (more choice)
3. Reduced costs (online scoring or grading)
4. Increase capacity in facilities (e.g., UCF)
5. Convenience
6. Pedagogy



## Student Satisfaction in Canada for Blended Learning (Owston, Garrison, & Cook 2006)

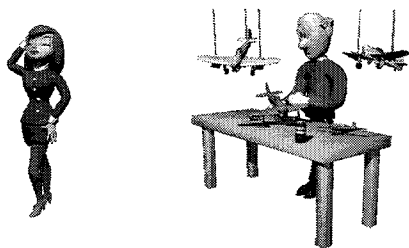


## Fully Online and Blended Learning Disadvantages

1. Procrastination (trouble managing time and requirements)
2. Problems with technology at the beginning (instructor tries too much)
3. Can be overwhelming or too novel
4. Poor integration or planning
5. Resistance to change
6. Faculty skepticism, increase workload, and reduced productivity



## Frameworks and Models of Blended Learning...



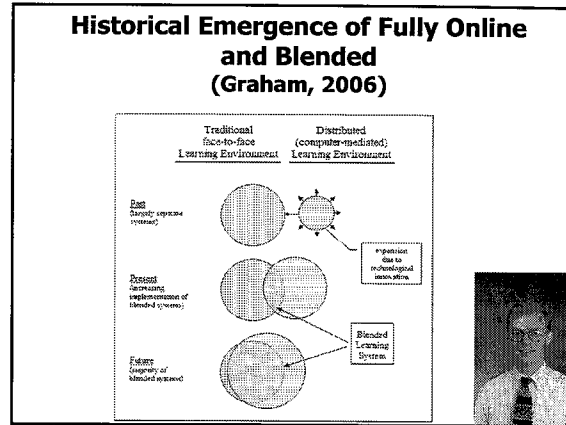
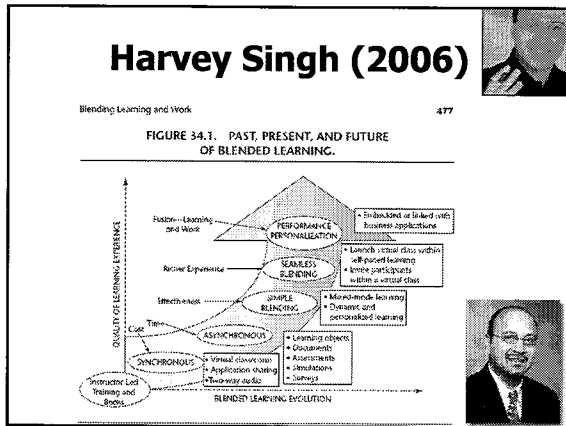
## Dimensions of Blended Learning (Jay Cross, Foreword, 2006)

FIGURE E.1. DIMENSIONS OF THE BLENDED LEARNING STEW.

Fleeting know-how	[-+-----+]	Lasting knowledge
Individual	[-+-----+]	Community
Generic	[-+-----+]	Proprietary
Training	[-+-----+]	Knowledge sharing
Text	[-+-----+]	Visual
Self-directed	[-+-----+]	Guided navigation
Content focus	[-+-----+]	Experience focus
Exploiting	[-+-----+]	Participating
Push	[-+-----+]	Pull
Personalized	[-+-----+]	One-size-fits-all
Skills	[-+-----+]	Values
Information	[-+-----+]	Transformation
Formal	[-+-----+]	Informal







	Traditional F2F	Mixed Reality	Computer-mediated Virtual (distributed)
<b>Space</b>	Live (physical F2F)		Virtual (distributed)
<b>Time</b>	Live Synchronous (very short lag time)		Asynchronous (long lag time)
<b>Fidelity</b>	High (rich all senses)	Medium (e.g., audio only)	Low (text only)
<b>Humanness</b>	High Human No Machine		No Human High Machine

**(Graham, 2006)**

## AMA Special Report, Blended Learning Opportunities

Alison Rossett (2006)

- Anchor Blend: Start FTF, then online**
- Bookend Blend: Three part: e.g., online preassessments, then FTF, and then online post assessments**
- Field Blend: Assets, resources, and choices including perhaps FTF**

## AMA Special Report, Effectively Implementing a Blended Learning Approach

(Steven Shaw & Nicholas Igneri, 2006)

Source: American Management Association, AMA at Work

## AMA Special Report, Blended Learning Opportunities

Alison Rossett (2006)

Table 1. What Might Go in the Blend

<b>Live face-to-face (formal)</b> <ul style="list-style-type: none"> <li>• Instructional classroom (F2F)</li> <li>• Workshops</li> <li>• Coaching, mentoring</li> <li>• On-the-job (OTJ) training</li> <li>• Work-based problems</li> </ul>	<b>Live face-to-face (informal)</b> <ul style="list-style-type: none"> <li>• Collegial relationships</li> <li>• Work teams</li> <li>• Apprenticeships</li> </ul>
<b>Virtual collaboration/synchronous</b> <ul style="list-style-type: none"> <li>• Live e-learning classes</li> <li>• E-coaching, e-mentoring</li> <li>• Instant messaging, SMS</li> </ul>	<b>Virtual collaboration/asynchronous</b> <ul style="list-style-type: none"> <li>• Email</li> <li>• Online communities and discussion boards</li> <li>• Listserve</li> <li>• Blogs, wikis, podcasts</li> </ul>
<b>Self-paced learning (print, CD/DVD, electronic, wireless)</b> <ul style="list-style-type: none"> <li>• Online modules</li> <li>• Online resource links</li> <li>• Simulations and scenarios</li> <li>• Assessments and self-assessments</li> <li>• Workbooks, readings</li> </ul>	<b>Performance support</b> <ul style="list-style-type: none"> <li>• Online help systems</li> <li>• Print job aids</li> <li>• Online knowledge databases</li> <li>• Documentation</li> <li>• Performance support tools</li> </ul>

*Adapted from Rossett, Douglas, & Frueze, 2003, July*

### Working Definition

(Graham, 2006, HOBLE Chapter 1, Blended Learning Systems)

**Definition:**  
**Blended learning systems combine face-to-face instruction with computer-mediated instruction.**

### Range of Blends in Pew Cases

Source: Graham, C. R., & Allen, S. (2005). Blended learning: An emerging trend in education. In C. Howard & J. V. Boettcher & L. Justice & K. D. Schenk & P. L. Rogers & G. A. Berg (Eds.), *Encyclopedia of Distance Learning* (pp. 172-179). Hershey, PA: Idea Group Inc.

### Insung Jung & Katsuaki Suzuki, Blended Learning in Japan, 2006

- **Open Interaction:** create small group debate, assign online facilitators & wrappers
- **Knowledge Creation:** inviting external experts, combine async and sync
- **Information Distribution:** posting materials to review or read
- **Efficient Management:** allow electronic submission; list of standard feedback

### Models of Blending

Blending occurs at the following four levels:

### 1. Activity- and Course-Level Blends

Blended learning systems: Definitions and directions (Osguthorpe & Graham, 2003)

Learning Activities	Students	Instructors

Key:
 

- Face-to-face classroom
- Student
- Instructor
- Online interaction

### 2. Course-Level Blend: Using CMS to blend distance and F2F learners

(Rogers, Graham, et al., 2003)

## 2. Course-level blends: Beijing Normal University (2006)

**Alternating F2F and e-learning activities in a multimedia technology course in China.**

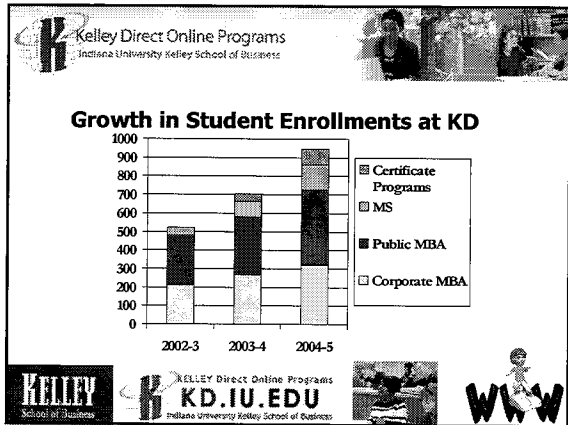
See: Huang Ronghui, H. & Yueliang Z. (2006). Blended learning systems: Definition, current trends, and future directions. In C. J. Bonk & C. R. Graham (Eds.), *Handbook of blended learning: Global perspectives, local designs*. San Francisco, CA: Pfeiffer Publishing.

## 3. Program-level blending

Teleconferences Online Seminar 1 Seminar 2 Mentoring

2.5 Months

**Figure 1: Avaya's ESSBa program schedule**

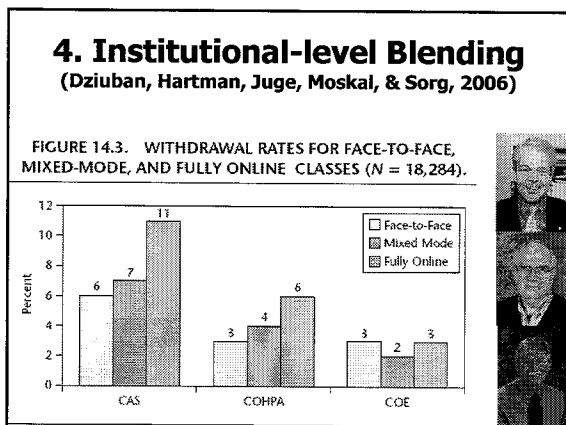


## 4. Institutional-level Blending

**Example 1: University of Central Florida**

- E courses are technology enhanced courses
- M courses are blended courses with reduced seat time
- W courses are web courses (completely online)

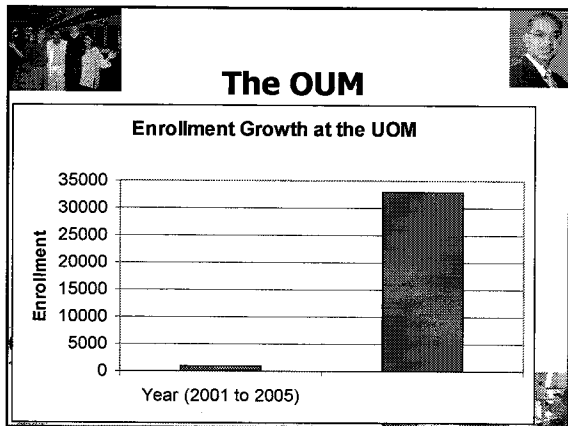
See: Daluban, C., Hartman, J., Juge, F., Moskal, P., & Sorg, S. (2006). Blended learning systems: Definition, current trends, and future directions. In C. J. Bonk & C. R. Graham (Eds.), *Handbook of blended learning: Global perspectives, local designs*. San Francisco, CA: Pfeiffer Publishing.



## 4. Institutional-level Blending (Abtar Kaur & Ansary Ahmed, 2006, Open U Malaysia)

FIGURE 22.1. OPEN UNIVERSITY MALAYSIA'S BLENDED LEARNING MODEL

See: Kaur, A., & Ahmed, A. (2006). *Blended Learning: A New Paradigm for Higher Education*. London: Sage.




### 4. Institutional-level Blending

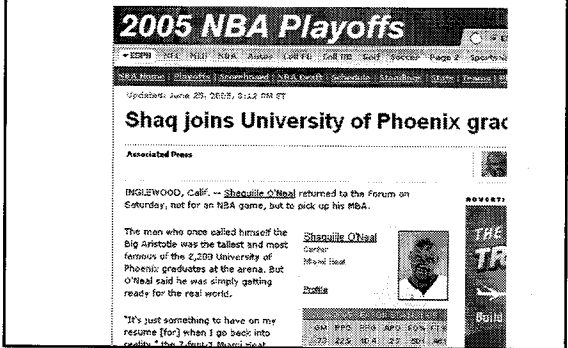
(Brian Linquist, 2006)

**Example 2: University of Phoenix**

- Completely online courses
- Residential F2F courses
- Blended Courses
  - *Local Model* = 5 week courses with first and last week F2F
  - *Distance Model* = 5 week courses with half first and half last week F2F (the last meeting of one course is coordinated to be back-to-back with the first meeting of the next 5 week course)




### Even Shaq is taking courses online!



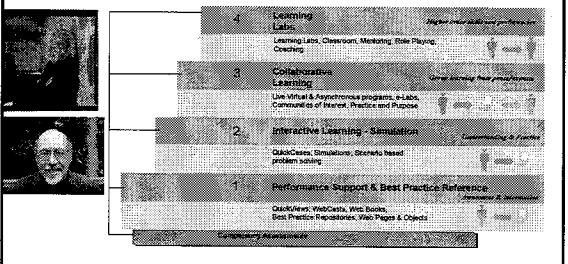
### 4. Blended Learning Form Factors

(copyright Microsoft, Ziob & Mosher, 2006; Handbook of Blended Learning Environments)

Live instructor-led	Self-paced learning	Tools for learning communities
<ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• Onsite engagement</li> <li>• Virtual online classroom</li> <li>• Live video via satellite or videoconferencing</li> <li>• Online coaching/mentoring</li> </ul>	<ul style="list-style-type: none"> <li>• Instructor-led classroom via e-mail</li> <li>• Online or computer-based training (CBT)</li> <li>• Self-study guides, manuals, texts</li> <li>• Online resources and databases</li> </ul>	<ul style="list-style-type: none"> <li>• Chat</li> <li>• Instant messaging (IM)</li> <li>• Newsgroups and forums</li> <li>• Collaboration</li> </ul> 

### 4. The IBM Four Tier Learning Model (2006)



Blending Learning for Business Impact – IBM's case for learning success, 2006 Handbook of Blended Learning, Nancy Lewis, VP, & Peter Orton, IBM



### 4. Specific Learning Elements

An Learning Ecology from Sun Microsystems (Wenger & Ferguson, 2006)

Content Delivery Focus	Learner Self-Navigation	Practicing
<ul style="list-style-type: none"> <li>• Classroom Lectures</li> <li>• Synchronous Content</li> <li>• Demonstrations</li> <li>• Review/Discussions</li> <li>• Video</li> <li>• Video-conferencing</li> </ul>	<ul style="list-style-type: none"> <li>• Books, articles, guides</li> <li>• References</li> <li>• White papers</li> <li>• Asynchronous Content</li> <li>• Job Aids</li> <li>• Classmates</li> <li>• FAQs</li> </ul>	<ul style="list-style-type: none"> <li>• Authentic tasks</li> <li>• Role-Play</li> <li>• Projects</li> <li>• Case Studies</li> <li>• Peer Discussion</li> <li>• Discussion Forums</li> </ul>
Teaching	Guided Navigation	Coaching

Categories of Blends	
A. Enabling Blends	Enabling blends primarily focus on addressing issues of access and convenience; provide similar learning experiences.
B. Enhancing Blends	Enhancing blends allow for incremental changes to the pedagogy; additional or supplementary online resources.
C. Transforming Blends	Transforming blends are blends that allow for a radical transformation of the pedagogy and learner construction of knowledge.

### A. Enabling Blends

- Many of the for-profit institutions like **Capella**, **Jones International University**, and **University of Phoenix** have models that focus on making educational opportunities available to those who don't have access due to time and location constraints.
- **National University** has a teacher preparation program geared towards access and flexibility.
- Many international education and training programs are also focused on providing access (e.g., **World Bank**, **Mexico's Red Escolar program**, etc.)

### National University Department of Teacher Education (Reynolds & Greiner, 2006)

- 12,000 Enrolled Students
- Since 2004 More than 50% of Candidates Enrolling as Online rather than On-site
  - They will take a majority of classes online
- Each Candidate Takes 7 Credential Classes
- Each Class Contains 2 Field-based Exp.
- 500 Classes/Yr. & 20 Students/Class =
- 20,000 Field-based Experiences/Year

### B. Enhancing Blends (Univ of Waikato, New Zealand, 2006)

University of Waikato, New Zealand

- Model for enhancing F2F courses includes:

- **Fully online** - students can complete qualifications without coming onto the campus
- **Mostly online** - there is a mix of online and some on-campus work in the qualification
- **Somewhat online** - there is an online component for on-campus students
- **Supported online** - courses are taught in the traditional lecture/tutorial mode, supported by material provided through the online learning or relevant university schools' document management systems

### B. Enhancing Blends (Univ of Glamorgan, Wales, 2006)

Continuum of e-Learning

Basic ICT usage	E-enhanced	E-focused	E-intensive
Eg PowerPoint presentations	Access to online resources. Use of Bb for announcements, lecture notes, student communication	Discussion boards, online assessment tests, interactive learning materials	Whole modules/rewards delivered and moderated online

### C. Transforming Blends (Kirkley & Kirkley; Oliver, Herrington, & Reeves,

Reality-Virtuality Training Continuum

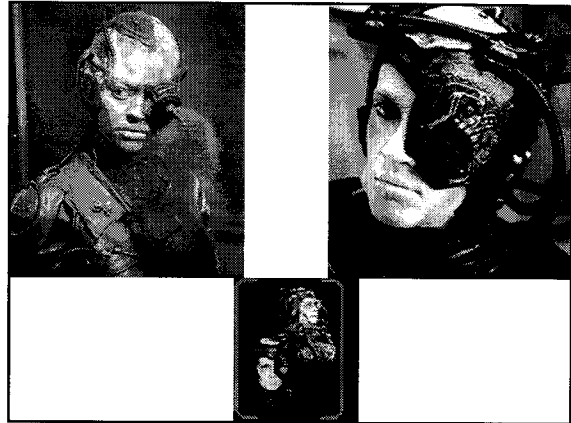
Real World    Augmented Vision    Augmented Reality    Augmented Virtuality    Virtual Reality

Mixed Reality

Example of levels of mixed reality that allow a blending of the real and virtual worlds.

**What can we say about blended learning then???**

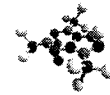
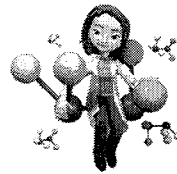
- **It is everywhere!!!!!!!!!!**
- **Resistance is futile!!!!!!!!!!**



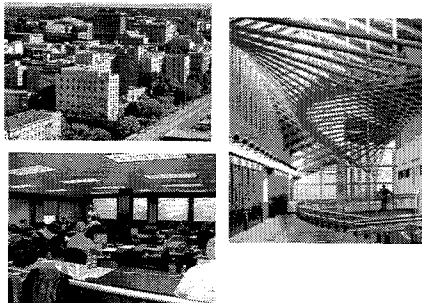
Future learning systems may not be differentiated as much based on *whether* they blend but rather by *how* they blend.

- (paraphrase from Ross and Gage, WebCT)

### **Best BL Model Presentations and a Break!!!**



### **Part II: 13 Fully Online and Blended Learning Problems and 37 Solutions**



### **Problem Situation #1: Brief FTF Experiences**

- **Face-to-face (FTF) experiences are brief, one-week journeys. Need to need to build self-confidence, create social supports, teams, camaraderie, etc.**

**Ok, Million Dollar Question:  
What can you do in 1 week?**



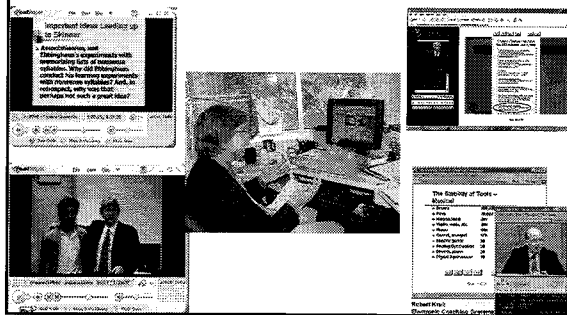
**Solution #1+.  
Sample Activities for Brief Meetings**

1. Assign web buddies, email pals, critical friends based on interests, confidence, location, etc.
2. Ice breakers—paired introductions, corners.
3. Solve case in team competitions with awards.
4. Test technology in a lab.
5. Assign teams and exchange info for small teams using text messaging.
6. Library (digital and physical) scavenger hunt.
7. Do a podcast documenting the meeting.
8. Have everyone create a blog on the experience.
9. Open an e-portfolio for each student
10. Brainstorm how might use technology in program.

**Problem Situation #2:  
Student Absenteeism**

- Students miss class to attend a conference or event or a personal problem arises. Or students asks to watch the class a second time.

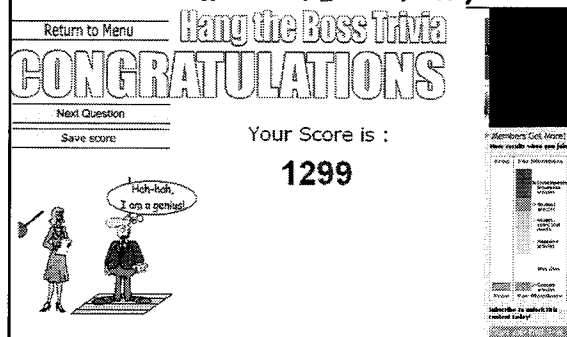
**Solution #2. Video Streamed Lectures  
and Expert Commenting**



**Problem Situation #3:  
Facilities and Time**

- Limited facilities or rooms for teaching. Or students cannot make it to class every week or are working full time.

**Solution #3. Terminology Exercises  
Online (puzzles, games, etc.)**

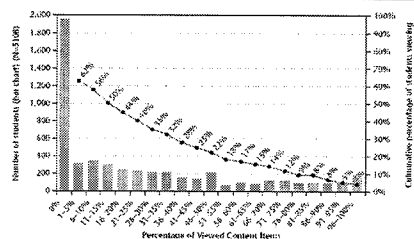


### Problem Situation #4: Web Supplemental Activities

- Fail to finish class discussion or other activity in time. Or desire to integrate the Web more in your face-to-face instruction or outside of class. Want to provide course resources and activities for students to explore.

### Content Use (Tel Aviv University) Nachmias, Ram, & Mioduser, 2006

Vertical Axis: 381  
FIGURE 27.2. DISTRIBUTION OF PERCENTAGE OF CONTENT ITEMS VIEWED BY STUDENTS.



Note:  $N = 5,168$  in 117 courses.

### Solution #4. Instructor Portal:

### Solution #5: Warm-ups Online Just-In-Time-Teaching (JiTT)

<http://webphysics.iupui.edu/jitt/jitt.html>

### Solution #6. Online Practice Tests (e.g., Calm Chemistry)

### Problem Situation #5: Student Learning Control

- Want to give students more control and ownership over their own learning. Want to foster student generative learning or being authors of their own knowledge.



### Solution #7.

#### Survey Research and Market Analysis (e.g., WebSurveyor, Zoomerang, SurveyShare, SurveyKey)

### Problem Situation #6: Preparedness for the Profession

- Students are not prepared for their professions when they graduate. Or want to better apprentice students into their chosen profession. What to provide opportunities to work with practitioners, experts, mentors, and coaches in authentic learning environment.

### Solution #8. Online Synchronous Cases and Teams; Simulated Boardroom Chat; College Wales, Univ. of Glamorgan

### Solution #9.

#### Video Observations (e.g., Virtual Psychiatric Interview, Trinity College, Dublin)

showcases

12

Department: Psychiatry  
Academic: Prof. Michael Gill, Dr. Brian Fitzmaurice, Faele Armstrong

This is a Virtual Interview project that has been developed by QLT and the Department of Psychiatry. The first iteration was launched in March, 2009 for students. In this project students are given the opportunity to carry out a clinical interview with a patient. The student decides what questions are asked and with the aid of video clips can listen and watch the patient responses.

### Solution #10.

#### E-Reading First Ohio (video-based scaffolding from expert instructors)

### Problem Situation #7: Collaborative Skill Deficit

- Students need collaboration and teamwork skills. Want to build virtual teaming skills in class activities or work with learners in other locales or situations.

## Solution #11. Cross-Class Collab (Indiana Univ and Open U of Malaysia)

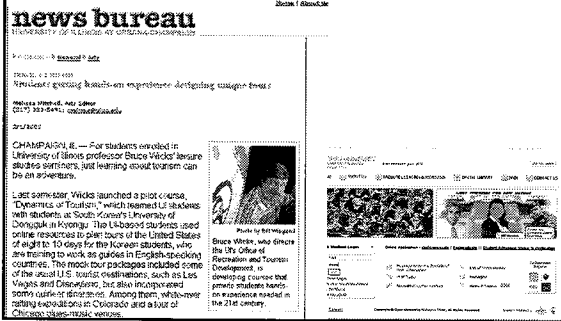
**news bureau**  
UNIVERSITY OF MALAYSIA OPEN UNIVERSITY

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[View our news](#)  
[View our news](#)

**CHAMPAIGN, IL.** — For students enrolled in University of Illinois professor Bruce Wicks' language studies seminars, just learning about tourism can be an experience.

Last semester Wicks launched a pilot course, "Dynamics of Tourism," which teamed U.S. students with students at South Korea's University of Dongguk in Kyongju. The U.S.-based students used online resources to plan tours of the United States of eight to 10 days for the Korean students, who are training to work as guides in English-speaking countries. The most fun packages included some of the most U.S. tourist destinations, such as Las Vegas and Disneyland, but also incorporated some unique sites. Among them, white-water rafting expeditions in Colorado and a tour of Chicago's historic architecture.

Bruce Wicks, who directs the U.S. Office of Recreation and Tourism Development, is developing courses and projects that help students learn on experiential grounds in the 21st century.



## Solution #12. Online Groups...

Yahoo! Groups

Sign In  
New User? Sign Up

Groups Home > Help

**YAHOO! Groups**  
The easiest way for groups of people to communicate on the Internet.

- Stay in touch with friends, family and colleagues
- Discuss sports, health, news, and more
- Connect with people who share your interests

To view My Groups... you need a Yahoo! ID. Signing up is easy.  
[Sign up for Yahoo!](#)

Already have a Yahoo! ID? Sign in.  
 Yahoo! ID:   
 Password:   
 Remember my ID on this computer  
[Sign In](#)

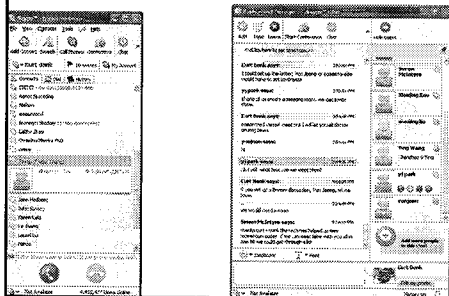
MODE: Standard | Remove From Your ID or Add Request | Register Now

**Find a Group**

of groups for Religion, Language, Music, Business, Health

Professors & Finance	Computers & Internet
Culture & Community	Entertainment & Arts
Family & Home	Games
Government & Politics	Health & Wellness
Hobbies & Crafts	History
Parenting & Support	Real Estate

## Solution #13. Team Meetings in Skype



## Solution #14. Numbered Heads Together

- Assign a task and divide into groups (perhaps 4-6/group).
- Perhaps assign group names across class or perhaps some competition between them.
- Count off from 1 to 4.
- Discuss problem or issue assigned.
- Instructor calls on groups & numbers.
  - e.g., in a research methods class, one person reads intro, another the method, another the findings, discussion, implications, etc.



## Problem Situation #8: Student Reflections and Connections

- Students are not connecting content. They are just turning pages and going through the motions. Minimal student reflection is seen.

## Solution #15. Learner-Self Interactions and Reflections

Review Questions - Eucapulation

Congratulations! You have completed this module.

The following content is for your recordkeeping and reference.

If you need to review or correct an error, please see the area at the bottom.

Click the feedback link.

Score: 100%

**Self Check**

Question

What is self-reflection?

Answer

Reflection is an objective-oriented mechanism that derives a new class from an existing class.

### Solution #16. Library Day (Bonk, 1999)



- Have students spend a day in the library or online finding and summarizing a set number of articles.
- Have them bring to class or post abstracts to an online forum.
- Share in small groups interested in similar topics.
- Perhaps give each student 1-2 minutes to describe what found in a chat.



### Solution #17. Apprenticeship: Electronic Guests & Mentoring

(Simon Fraser University News:  
<http://www.sfu.ca/mediaprifnews/2001/Sept6/hightech.html>)

- He has also found the competition's mentor program, in which contestants are matched with industry experts, to be invaluable.

The mentors to his team are now intimately involved with



### Solution #18. Online Simulation: Financial Accounting; (University of Calgary)

### Problem Situation #9: Learning Community

- There is a preference for creating an online learning community in order to increase student learning and retention in the program. Such a community might be in a single class or across a series of classes.

### Solution #19. Community of Learners: Medical and Business Cases Online (cases community)

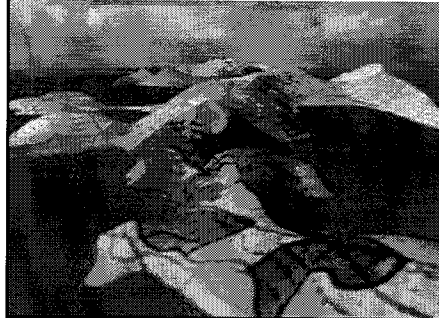
### Solution #20. Community of Practice: Online Professional Development

### Problem Situation #10: Need to Visualize Content

- Content is highly visual in nature and difficult to simply discuss in class. Or students have a preference for visual learning.



### Blended Solution #21. Explore Virtual Worlds and Online Representations (UCLAs CVRLab)

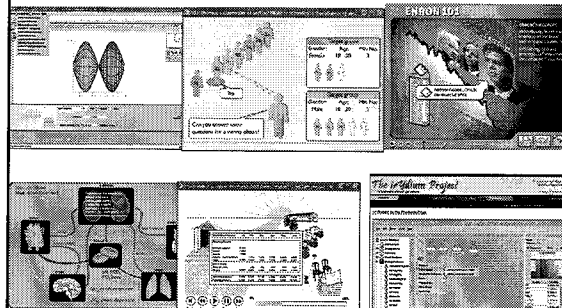


### Ancient Rome Virtually

"Today he (Dr. Bernard Frischer) can present virtual-reality projects wherever he goes -- classrooms, museums, conferences, or workshops -- as long as he has access to a screen and a digital projector. On this morning his art-history course, "he treats his students and interested guests to a tour of Rome as it looked in the before and after Julius C (July 22, 2005, Chronicle



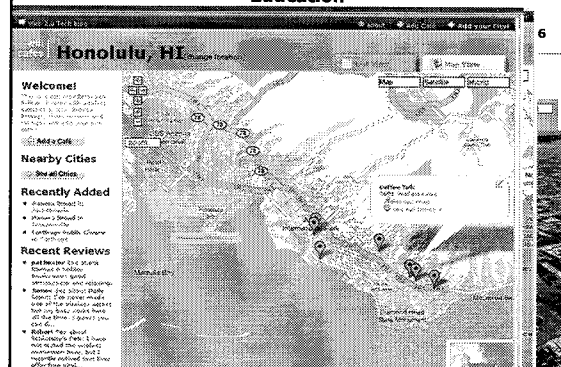
### Blended Solution #22. 3-D Visualization & Laboratory Software



### Solution #23. Anchored Instruction: News Content Videos (CTGV, 1990?)

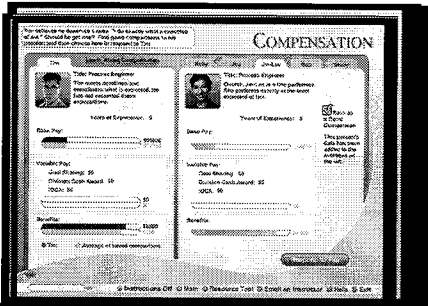


### Solution #24. Use Google Maps Mashups in K-12 Education

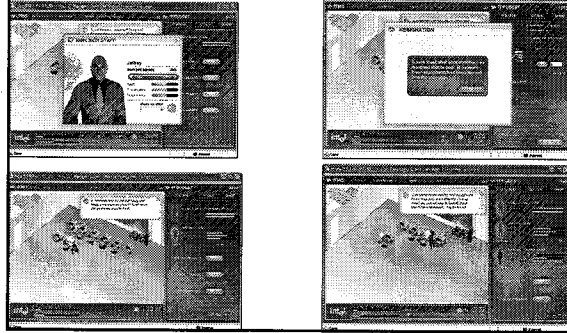




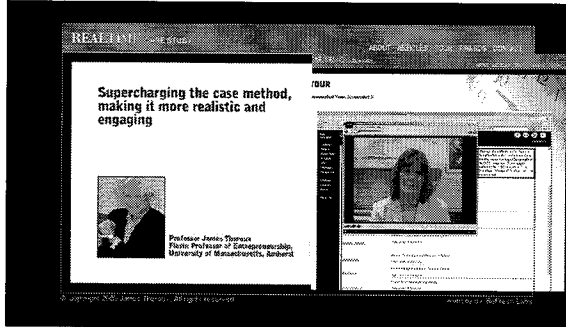
**Solution #30. Allen Interactions**  
[http://sales.alleni.com/client/Bonk/Bonk\\_Web\\_Links.htm](http://sales.alleni.com/client/Bonk/Bonk_Web_Links.htm)



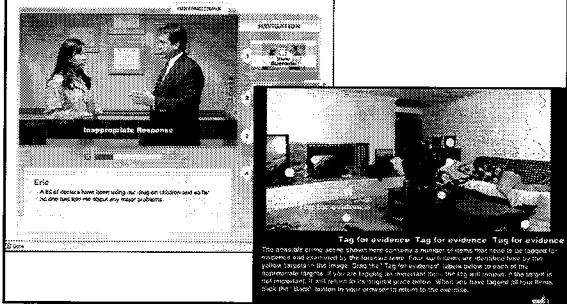
**Solution #31. Educational Simulations, Scenarios, and Manipulations**



**Solution #32. Real World Problems (PBL online): Real-time Cases**



**Solution #33. Video Scenario Learning (Option 6, Arjuna Multimedia, Bloomington, IN)**



**Problem Situation #12: Preference for Auditory Learning**

- The content is heavily verbal or words. Or students have a preference to listen to a lecture or hear an instructor deliver a lecture.

**Solution #34. Art and History Exhibits**



### Solution #35. Basic Acoustics of Musical Instruments

THE UNIVERSITY OF NEW SOUTH WALES - SYDNEY - AUSTRALIA


**PHYSICS**

**Musical Acoustics**

**Introduction to the acoustics of brass instruments**

How does a trumpet work? Why does a trombone sound the way it does? Why is the French horn hard to play? This page explains the physics of brass instruments (for the why-the-hell-it-works (and) it explains an enormous beyond-mathematical and detailed, not any technical knowledge of acoustics. For a range of background topics in acoustics (waves, frequency, resonance, Getbible etc) click on "Basics" in the navigation bar at left.

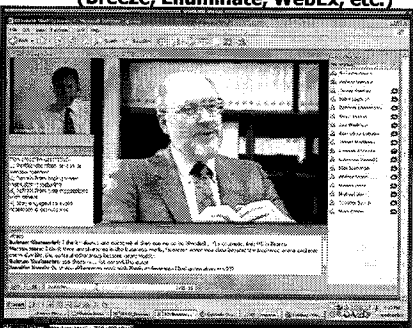
- Overview
- Some basic brass notes
- The basic sound of the trumpet
- Physics of the trumpet
- Clarinet, saxophone and other notes
- Resonance and harmonics of waves with different shapes
- The effect of the lip
- The effect of the mouthpiece
- Resonance and length notes
- Resonance of the natural trumpet and horn
  - o Resonance in the natural trumpet, horn
  - o Resonance in the natural trombone, saxophone
  - o Resonance in the natural tuba, euphonium
- How the instrument and horn work together
- Section of brass instruments
- Notes
- Colors and slides
- Different members of the brass family
- Frequency interactive and acoustic spectra



### Problem Situation #13: Lack of Instructor Presence

- **Students need to see or hear from the instructor. They need a sense that the instructor is supporting their learning. They prefer face-to-face but are willing to try online.**

### Solution #36. Instructor Presentation in Synchronous Sessions (Breeze, Elluminate, WebEx, etc.)



### Solution #37. Peer Critique in Breeze (Table of Benefits of Peer Critique; Park & Bonk, in review)

- **Providing immediate feedback**
- **Increasing interactions among participants**
- **Encouraging to exchange multiple perspectives**
- **Enhancing dynamic interactions**
- **Promoting passive to become active**
- **Strengthening social presence allowing to exchange of emotional supports**
- **Apply skills just learned**
- **Exchange constructive feedback on each other's projects**



**creativeclub**

Mitsubishi  
Mitsubishi Colt - Football - 25th February 2006

The Creative Club

Play this ad

- >> Largest Archive of UK Ads
- >> Spend Reports Available
- >> Updated Daily
- >> Superior Quality
- >> Free to join
- >> All media covered
- >> Be alerted of new ads
- >> Archive purchased ads

Join Now

### Poll #4. Which blended learning strategy might like to try?

- A. Post assessments and reviews online
- B. Follow-up activities in a community of practice
- C. Put reference materials on the web
- D. Use online mentors, experts, and coaches
- E. Rely on instant messaging and chat

**Poll #5. What blended ideas do you think work or have you tried?**

- A. Online simulations, games, demos, and hands-on activities**
- B. Online surveys, polls, research, and authentic data collection**
- C. Extensive Web explorations (student selected and reported)**
- D. Extensive Web support materials (papers, discussion forums, test examples)**
- E. Alternative class and face-to-face meetings and activities**

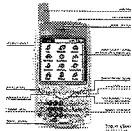
**10 Predictions for Blended Learning**

- From: Bonk, C. J., & Kim, K. J. (in press). **Future directions of blended learning in higher education and workplace learning settings.** To appear in C. J. Bonk & C. R. Graham (Eds.). *Handbook of blended learning: Global Perspectives, local designs.* San Francisco, CA: Pfeiffer Publishing.



**Blended Learning Trend #1.  
Mobile Blended Learning**

- **Increasing use of mobile and handheld will create rich and exciting new avenues for blended learning.**



**Blended Learning Trend #2.  
Greater Visualization, Individualization,  
and Hands-on Learning**

- **Blended learning environments will increasingly become individualized; in particular, emphasizing visual and hands-on activities.**

**Blended Learning Trend #3.  
Self-Determined Blended Learning**

- **Blended learning will foster greater student responsibility for learning. Decisions about the type and format of blended learning will be made by students instead of instructors or instructional designers. Learners will be designing their own programs and degrees.**



**Blended Learning Trend #4.  
Increased Connectedness,  
Community, and Collaboration**

- **Blended learning will open new avenues for collaboration, community building, and global connectedness. It will become used as a tool for global understanding and appreciation.**





**Blended Learning Trend #5.  
Increased Authenticity and On-  
Demand Learning**

- Blended learning will focus on authenticity and real world experiences to supplement, extend, enhance, and replace formal learning. As this occurs, blended learning will fuel advancements in the creation and use of online case-learning, scenarios, simulations and role play, and problem-based learning.



**Blended Learning Trend #6.  
Linking Work and Learning**

- As blended learning proliferates, the lines between workplace learning and formal learning will increasingly blur. Higher education degrees will have credits from the workplace and even credit for work performed.

**Blended Learning Trend #7.  
Changed Calendaring**

- The calendar system or time scheduling of learning will be less appropriate and predefinable.



**Blended Learning Trend #8.  
Blended Learning Course  
Designations**

- Courses and programs will be increasingly designated as blended learning paths or options.

**Blended Learning Trend #9.  
Changed Instructor Roles**

- The role of an instructor or trainer in a blended environment will shift to one of mentor, coach, and counselor.



**Blended Learning Trend #10.  
The Emergence of Blended  
Learning Specialists**

- There will emerge specialist teaching certificates, degree programs, and resources or portals related to blended learning courses and programs.

**Poll #6. Which of these 5 predictions do you agree with the most?**

- A. Increased self-determined web learning
- B. Increased connectedness, community, and collaboration
- C. Increased authenticity and on-demand learning
- D. Blended learning course designations
- E. The emergence of blended learning specialists

**Poll #7. Which of these 5 predictions do you agree with the most?**

- A. Increasing use of mobile blended learning
- B. Greater visualization, individualization, and hands-on learning
- C. Greater linking of workplace and formal learning
- D. Changed calendaring
- E. Changed instructor roles

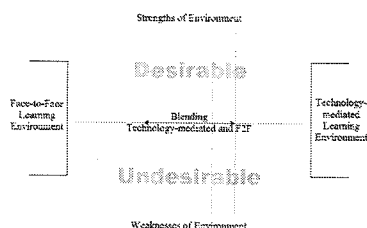
### Implications and Challenges for Blended Learning

1. Faculty and students are more mobile.
2. Students more choices.
3. Student expectations rise.
4. Greater self-determined learning.
5. More corporate university partnerships.
6. Courses increasingly modular.
7. Less predefined schedules.
8. When teaching less clear; when learning less clear.

### A Challenge for the Future

- Our challenge is to learn how to design effective blended learning systems
  - For a wide variety of contexts (tech impoverished to tech rich)
  - For a wide variety of learners
  - With a broad range of constraints

### A Challenge for the Future



One of our challenges is to determine the **strengths and weaknesses** of the two archetypal environments and use those to develop solutions that really do take advantage of the "best of both worlds."

**Enriching Student Experience Through BL (Bob Albrecht, ECAR, June 6, 2006, Educause)**

**"Blended learning, a more pedagogically oriented innovation with many of the advantages of online learning, could well become a standard practice favored by both faculty and students. Institutional support, however, will determine how quickly it spreads and whether it achieves its promise of improving student learning."**



## The End...Remember



**It's Over...**

Poll: Ok, then, who wants more???

- A. Yes
- B. No
- C. Not sure

## Sorry...it really is the end!!!



Your skeletal muscles' maximum burn rate is double that of your brain. Think about it.



Experience. The difference.

### Time for a BL Competition???

**The Handbook of Blended Learning**  
Global Perspectives  
Linda Dwyer  
Clark A. Bonk  
Charles R. Graham

Sample HOBLe chapters at:  
<http://www.publicationshare.com/>

Archived talks at:  
<http://www.trainingshare.com/>