

Videoconferencing and Podcasting For Teaching and Learning



Hazel Kennedy
Engineering Computing
haustin@uwaterloo.ca
PHY-3003, ext-2756

Overview

- ***What is videoconferencing?***
- ***Engineering videoconferencing***
- ***Videoconferencing from/to a PC***
- ***Podcasting***
- ***Future***

What is videoconferencing?

- *enables people at different locations to see and hear each other, see documents and sometimes share access to computer applications over the internet (IP) but ISDN is also available*

1. Point-to-Point Videoconferences: *when one videoconferencing system calls another system.*

2. Multipoint Videoconferences: *when 3 or more systems conference together by calling a video bridge.*

Videoconferencing Room, E2-1307G



Polycom™ Visual Concert:

- *transmits live images and sound from any PC application (PowerPoint, Excel, Web pages, etc.)*
- *supports resolutions of up to 1280 x 1024*

Engineering Videoconferencing, E2-1307G

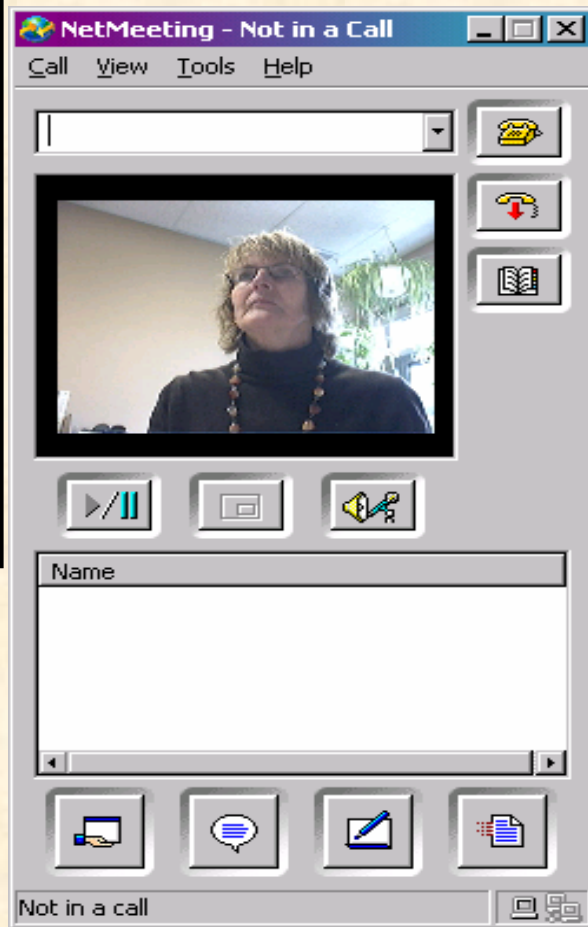
- *upgraded to a Polycom™ FX in 2003*
- *view both the live PC presentation and presenter simultaneously*
- *“peer-to-peer” or “multipoint” videoconferences*
- *increase in use of internet videoconferences (e.g. NetMeeting)*
- *used 60-120 hours/term (generates ~\$10k /term)*
- *usage: (UW/external ~10% / 90%)*
 - *research meetings*
 - *interviews*
 - *PhD defenses*
 - *graduate courses*
 - *math tutorials to high school students (Math)*
 - *LT3 workshops*
 - *health training to hospital sites (AHS)*
 - *EWB*
 - *presidents office*



Videoconferencing from a PC

- *software:*
 - *NetMeeting (Microsoft™) or PVX (Polycom™)*
 - *communication tools that allow individuals (groups) to communicate over the internet in real-time (audio, video and/or data)*
 - *hardware:*
 - *webcam (Logitech™)*
- + ideal for communicating from your office, your home or on the road*
- *easy to connect and manage from your desktop*
 - *good video and audio using the latest technology*
 - *easily share data and transfer programs with participants*
 - *delivers a similar experience to users of larger conferencing systems*
- not suitable for:*
- *larger audiences*
 - *multipoint videoconferences*

Videoconferencing with MS NetMeeting



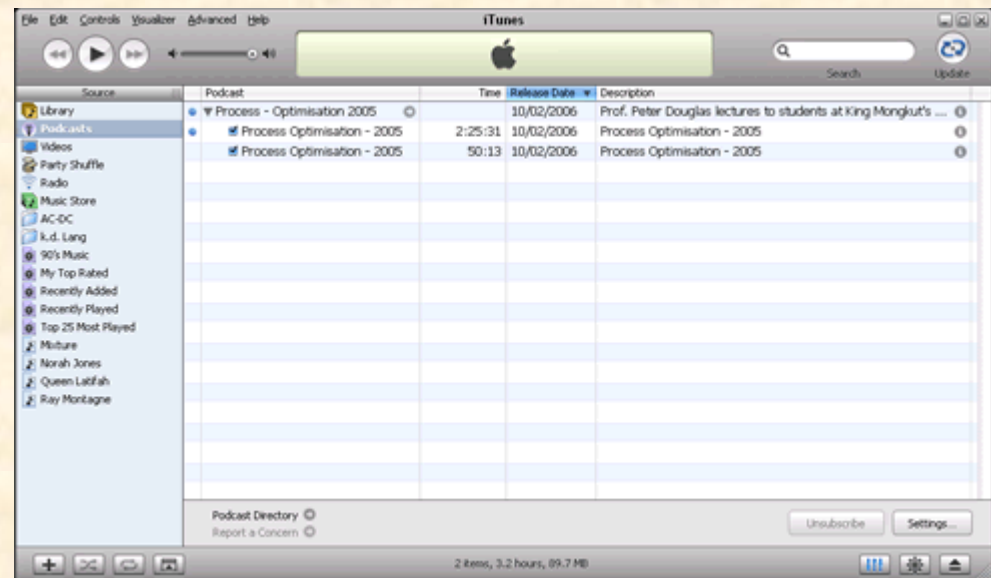
← MS NetMeeting →



- *participate in videoconferences using a PC + webcam*
 - *install webcam software*
 - *launch MS NetMeeting and make your video calls to IP address*

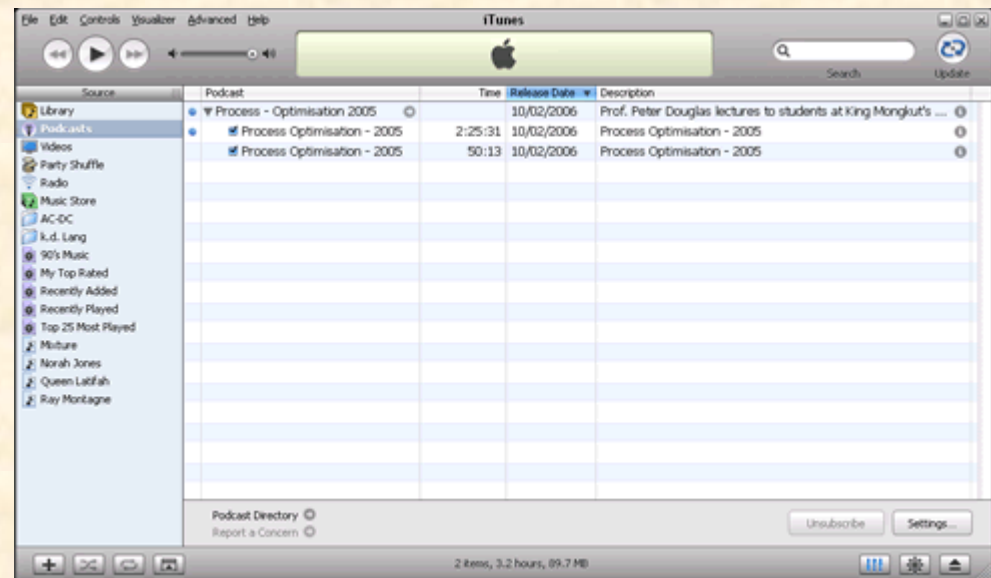
What is Podcasting? (iPod + broadcast)

- *posting an audio or video file on the web using podcasting software (iTunes) and delivered via a subscription service, such as an RSS feed*
- *RSS feed notifies the subscriber when a new file has been posted*
- *available to anyone to download or subscribe to but can be password protected*
- *users then listen at their convenience*







Who is Podcasting?





- radio and TV
 - CBC
 - TVO
- universities
 - Stanford University
 - Harvard University
 - University of Michigan
 - Purdue University
 - Indiana University
 - Carleton University
 - UW (next term)



Upload a new Podcast

Address  http://www.eng.uwaterloo.ca/podcast/submit.php

Google  www.eng.uwaterloo.ca/pod  Search  31 blocked  Ch

Y!   Search Web  NEW  Toolbar Update

Upload a new podcast

Choose your .mp3 file:

Name of presentation:

Description:

Author:

or [cancel](#)



Future of videoconferencing?

- *new technology will have large impact on videoconferencing:*
 - *PC based videoconferencing systems*
 - *video iPods*
 - *mobile devices (cellphones, BB)*
 - *portable videoconferencing systems*
- *decrease in the price and increase in ease of use will remove key barriers*
 - *decrease in use of ISDN systems*
 - *increase in use of PC based systems*
- *Education*
- *Distance education?*



Future of videoconferencing?

- *new technology will have large impact on videoconferencing:*
 - *PC based videoconferencing systems*
 - *video iPods*
 - *mobile devices (cellphones, BB)*
 - *portable videoconferencing systems*
- *decrease in the price and increase in ease of use will remove key barriers*
 - *decrease in use of ISDN systems*
 - *increase in use of PC based systems*
- *Education*
 - ***UW-ACE***
- *Distance education?*



Future of videoconferencing?

- *new technology will have large impact on videoconferencing:*
 - *PC based videoconferencing systems*
 - *video iPods*
 - *mobile devices (cellphones, BB)*
 - *portable videoconferencing systems*
- *decrease in the price and increase in ease of use will remove key barriers*
 - *decrease in use of ISDN systems*
 - *increase in use of PC based systems*
- *Education*
 - *UW-ACE + iPods*
- *Distance education?*



Future of videoconferencing?

- *new technology will have large impact on videoconferencing:*
 - *PC based videoconferencing systems*
 - *video iPods*
 - *mobile devices (cellphones, BB)*
 - *portable videoconferencing systems*
- *decrease in the price and increase in ease of use will remove key barriers*
 - *decrease in use of ISDN systems*
 - *increase in use of PC based systems*
- *Education*
 - ***UW-ACE + iPods + video***
- *Distance education?*



Interesting sites

Purdue University:

<http://128.210.157.22:1013/Boilercast/iTunesSetup.htm>

Stanford University:

<http://itunes.stanford.edu>

Indiana University:

http://www.indiana.edu/~video/stream/is_ipod.php

UCLA:

<http://www.oid.ucla.edu/webcasts/>

Carleton University:

http://www.carleton.ca/edc/tlt_conf06/documents/Pychylpodcastin_gsession_v3.ppt



BOILERCAST

FILE ACCESS

[BoilerCast Home](#)

SPRING 2006 Course List:

- [AD395](#)  [RSS](#) [BoilerCast](#)
- [AD454](#)  [RSS](#) [BoilerCast](#)
- [AD602](#)  [RSS](#) [BoilerCast](#)
- [AGRY350](#) [RSS](#) [BoilerCast](#)
- [ANTH205](#) [RSS](#) [BoilerCast](#)
- [AT479](#) [RSS](#) [BoilerCast](#)
- [AT999](#) [RSS](#) [BoilerCast](#)
- [BIOL110](#) [RSS](#) [BoilerCast](#)
- [BIOL111](#) [RSS](#) [BoilerCast](#)
- [BIOL206](#)  [RSS](#) [BoilerCast](#)
- [BTNY210](#) [RSS](#) [BoilerCast](#)
- [CDFS255](#) [RSS](#) [BoilerCast](#)
- [CGT141](#) [RSS](#) [BoilerCast](#)
- [CHM111](#) [RSS](#) [BoilerCast](#)
- [CHM112](#) [RSS](#) [BoilerCast](#)
- [CHM115](#) [RSS](#) [BoilerCast](#)
- [CHM116A](#) [RSS](#) [BoilerCast](#)
- [CHM116B](#) [RSS](#) [BoilerCast](#)
- [CHM124](#) [RSS](#) [BoilerCast](#)
- [CHM126](#) [RSS](#) [BoilerCast](#)
- [CLPH471](#)  [RSS](#) [BoilerCast](#)
- [CLPH573](#)  [RSS](#) [BoilerCast](#)
- [COM324](#) [RSS](#) [BoilerCast](#)
- [COM435](#)  [RSS](#) [BoilerCast](#)

University of British Columbia (UBC) Podcasts

A **podcast** powered by FeedBurner

A podcast is rich media, such as audio or video, distributed via RSS. Feeds like this one provide updates whenever there is new content. FeedBurner makes it easy to receive content updates in popular podcatchers.

[Learn more about syndication and FeedBurner...](#)

A message from the podcast publisher: This is an XML content feed. It is intended to be viewed in a newsreader or syndicated to another site, subject to copyright and fair use.

Subscribe Now!

...with web-based podcatchers. Click your choice below:



...with desktop podcatchers:

[Add to iTunes/Yahoo! Music Engine](#)

...with something else (copy this address):

Get more info on other podcatchers:



Current Feed Content

UBC Discovery Tour

Posted: 09 Mar 2006 02:06:00 -0600

 [Play Now](#)

The UBC Discovery Tour podcast was developed as a unique way for Grade 11-12 students in BC's Lower Mainland to experience the UBC campus during Celebrate Research Week 2006, an exciting week packed with events from all Faculties showcasing amazing researchers and their work at UBC. (A special podcast produced by UBC Community Affairs for [Celebrate Research Week 2006](#), originally presented on 09-Mar-2006)

From Brazil to Banda Aceh and Beyond: UBC Students Reflect on Global Citizenship

Posted: 31 Jan 2006 01:27:00 -0600

 [Play Now](#)

From an engineering student working in Indonesia to an exchange student from Mexico, hear what these dynamic panelists think about UBC's Trek 2010 goal to prepare students to become "exceptional global

