Paul Bauer - NIU, Greg Howe - CIM, Christianne Orto - MSM

Music Teaching and
Learning from a
Distance: Viable and
Effective Through
Technology

Paul Bauer
Northern Illinois University

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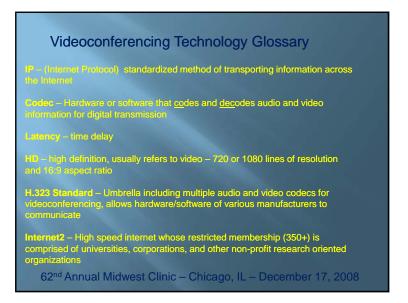
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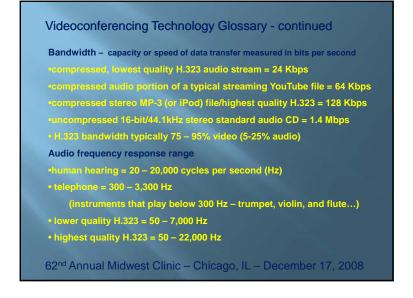


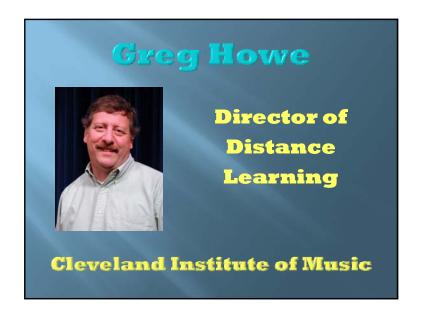
# Technology in Instruction -computer-assisted/aided instruction -asynchronous learning -online instruction -hybrid instruction -distance learning 62nd Annual Midwest Clinic – Chicago, IL – December 17, 2008



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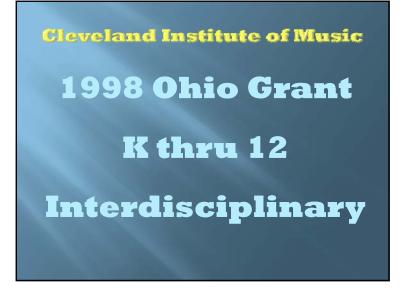






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430
H.323 codecs
Music Classes

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Cleveland Institute of Music

High School Music Clip



Cleveland Institute of Music

Conservatory

Master Classes

Peer Exchanges



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Master Class
NOT like being in
the same room
Never will be

Master Class
Cannot quite
play together

Cleveland Institute of Music

Conservatory
Performances
Connected to 35 Schools

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Current Videoconference Technology
Uses for Music Instruction
Guest Master classes
Students performing for other
students
Auditions
Collaborative Teaching
Professional Development
Local and International Connections

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**Northern Illinois University H.323 Videoconferencing Cart** Higher Cost - Best H.323 Audio - \$20,000+ Polycom HDX 9004 HD Videoconference Codec - \$15,000 olycom Eagle Eye HD (pan and tilt) Camera – \$3,500 flat-screen display (Plasma /LCD 46-47") – \$1,000 rdio mixing board with built-in compression (Yamaha MG12C) - \$300 sactive (built-in amplifier) studio monitors – pair (Dynaudio BM-5A) – \$1,000 \*LCD projector (optional) - \$1,000 -battery back-up (uninterruptible power supply) (optional) - \$250 Frugal Budget - Good H.323 Audio - \$12,000+ LifeSize Room HD Videoconference Codec (includes camera and microphone) – \$11,000 •flat-screen display or LCD projector – \$500 •active speakers – \$500 62<sup>nd</sup> Annual Midwest Clinic – Chicago, IL – December 17, 2008

Funding the purchase of Videoconferencing Equipment

Grant assistance

Polycom Grant Assistance Program

grants@polycom.com

Tandberg Grant Services

ww.tandberg.com/services/grant\_services.jsp

tservices@tandberg.com

888-308-7595 x 556

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H.323 codec expensive, but includes echo cancellation

**Higher Bandwidth Alternative to H.323** 

ree software - DVTS, Access Grid, VideoLan Client...

ulpment - Computer and Digital Video Camera

Somewhat complicated IT configuration
Uncompressed video and audio – highest quality audio
10 Mbps bandwidth – access to Internet2

Not viable option for majority of K-12 schools

**Another Alternative to H.323** 

•Free software - Conference XP

•Equipment – Computer, Digital Video Camera & microphone
•Simple or somewhat complicated IT configuration

•Adjustable compression for audio and video 256 Kbps – 28 Mbps •Viable option for many schools and individuals

•3 Mbps bandwidth - uncompressed audio with compressed vide

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Christianne Orto, Director, Distance Learning
Manhattan School of Music

Midwest Clinic
December 17, 2008



### **MSM** Distance Learning

- 1996
- 1st Conservatory in United States
- Maestro Pinchas Zukerman & President Marta Istomin
- Concept: Access & Accommodation



Manhattan School of Music Distance Learning

Christianne Orto Manhattan School of Music Distance Learning

Manhattan School of Music *Distance Learnin*g

Paul Bauer - NIU, Greg Howe - CIM, Christianne Orto - MSM



## **MSM** Distance Learning

- 27 of 50 States
- 15 Foreign countries
- 1700 students/each year
- Wide-adoption from MSM Faculty
- Jazz, Orchestral Program, Voice Dept.



Collaborators & Partners

- Conservatories
- Music Schools
- Performing & Presenting Organizations
- K-12 Schools
- Libraries & Hospitals



Christianne Orto Manhattan School of Music Distance Learning

### Program Content

### Types of Music Applications

- Masterclasses
- One-to-One Lessons
- Clinics
- Coachings
- Workshops
- · Professional Development
- Composer Colloquia
- Sectionals
- · Educational & Community Outreach



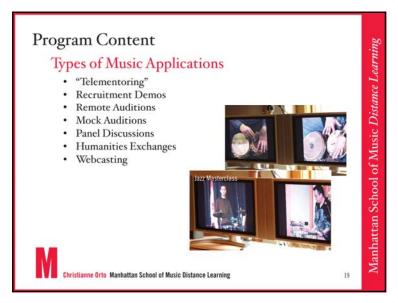
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18

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Microsoft is funding the Center for Collaborative Technologies at the University of Washington to develop Conference XP

ConferenceXP Main Page http://cct.cs.washington.edu/project-wiki/index.php/Main\_Page

ConferenceXP 5.0 free download http://cci.cs.washington.edu/project-wiki/index.php/Main\_Page

ConferenceXP 5.0 free downloads/CXP/

Equipment needed:

\*Computer with Windows XP or Vista OS

\*Digital Video Camera connected to a computer via firewire or a video interface

Special Notes:

\*If using DV camera, must use separate audio (mic) input

\*May have to downgrade to Windows Media 10 to resolve compatibility problems with Windows Media 11

\*Verify audio/video synchronization on receiving computer, not sending computer

José Feghali – Music Instruction via Conference XP expert i\_feghali@tcu.edu

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