


A copy of this PowerPoint and handouts, along with links to all references can be found at:
<http://www.pen.ntid.rit.edu/pdf/ntidtech06.pdf>

Various Instructional & Support Technologies Used at NTID, Rochester NY USA

E. William Clymer
Denise Kavin


PEN-International
NTID, USA
<http://www.pen.ntid.rit.edu>
 June 3, 2006
 A Presentation at Deaf People: Skills for Work and Life, Wolverhampton, England



1

NTID Students, Faculty & Staff

- **One of the 8 Colleges of RIT**
- **1250 Students**
 - 700 Sub-baccalaureate Programs, 475 Baccalaureate Program at RIT, 75 Graduate Students
- **475 Faculty & Staff**
 - 200 Faculty, 165 Staff, 110 Interpreters
- **Support During a Year**
 - 80,000 Interpreter Hours, 40,000 Note Taker Hours, 20,000 Tutoring Hours
 - 10,000 C-Print Hours & Rising



4

PEN-International Goals

- Improve Teaching, Learning and Curriculum Development
- Expand Career Education Opportunities for Deaf and Hard-Of-Hearing People Around the World
- Increase the Application of Technology to Teaching and Learning



<http://www.pen.ntid.rit.edu>



2

NTID & PEN-International



- NTID – 35 Years Experience
- PEN-International Shares NTID Experience with Partners
- NTID Faculty & Technical Experts Develop Materials & Share Information




5

RIT Information


- Founded in 1829
- Students
 - ~13,000 Undergrad
 - ~2,400 Graduate
- 1,500 Acre Campus
- Home of NTID & PEN-International

3

NTID Technology Expertise Topics for Today

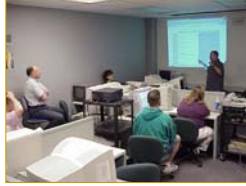
- Faculty Technology Skills
- Technology Infrastructure for Faculty
- Technology Infrastructure for Students
- Online Technology
- Communication Technology
- Technology Used in NTID Classrooms
- myCourses – Online Learning at RIT
- Instructional Technology Symposium
- NTID Center on Access Technology



6

Faculty Technology Skills Professional Development Program

- Level of Training
 - Individual
 - Department
 - Center
 - College
- Workshops
- Seminars
- Demonstrations
- Individual Training



7

Infrastructure for Faculty Educational Technology Resource Room

- Most Current Technology
- Experienced Faculty and Staff Guide Use of Technology with NTID Faculty
- Resource Room
- Product Development
- Loan System for Equipment



<http://www.rit.edu/~493www/>



10

Faculty Technology Skills Instructional Technology Consortium

- Faculty Development Activities
- Teachers Teaching Teachers
- Web Based Resources
- Faculty Projects
- Positive Evaluation & Impact



<http://www.rit.edu/~ntidtc/>



8

Infrastructure for Faculty Instructional Design & Evaluation

- Instructional Developers Lead Projects
- Team of Multimedia Developers, Graphic Designers, Photographers, Evaluators



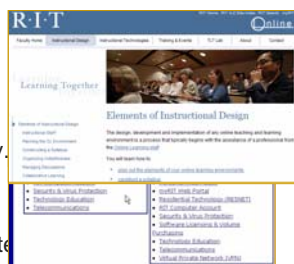
<http://www.rit.edu/~491www/>



11

Faculty Technology Skills RIT Resources

- RIT Faculty Training
- RIT ITS Support
- RIT Office of Professional Dev.
- RIT Library
- Educational Technology Center



9

Infrastructure for Faculty Instructional Television

- Traditional Television Production
- Captioning Process
- Classroom Captioning
- Videoconferencing



<http://www.rit.edu/~490www/etv.html>



12

Infrastructure for Faculty Equipment Services

- Equipment
- TTY/Videophone
- Assistive Technology
- Smart Classrooms
- Classroom Presentation Systems



<http://www.rit.edu/~493www/equipment.html>



13

Infrastructure for Students Self-Instruction Lab

- Supports Signed and Spoken Communication Instruction
- Courses From
 - Audiology
 - English
 - Speech & Language
 - Sign Language & Interpreting



■ <http://www.rit.edu/~482www/sil/>



16

Infrastructure for Faculty Technical Support & Operations

- Computer Set-up & Maintenance
- Software Support & Networking
- Document & Printer Services



<http://www.ntid.rit.edu/tso/index.htm>



14

Infrastructure for Students Computer Labs

- Optical Finishing
- Medical Billing & Coding Technology
- Business
- American Sign Language & Interpreting Education Lab
- Digital Imaging & Publishing



17

Infrastructure for Students NTID Learning Center

- Computer Classroom
- Computer Lab
- Tutoring
- Videoconferencing



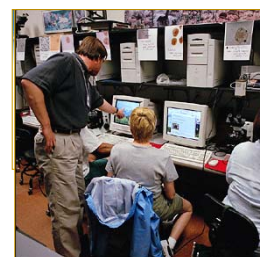
■ <http://www.rit.edu/~482www/nlc/nlchome.htm>



15

Online Technology WWW Courses

- Training and Support
 - Publisher & Other Authoring Systems
- RIT *My Courses*
 - Web-based Course Management System
 - Automates Typical Presentations
 - (Reviewed later in this presentation)



18

Online Technology Videoconferencing

- Application
 - Teaching
 - Meeting
- Format
 - Classroom/ Meeting Room
 - Desktop



19

Technology Used in NTID Classrooms

- Standard NTID Classroom Based on Years of Experience
- Incorporates Latest Technology
- Access Emphasis



Video Overview at:
http://www.ntid.rit.edu/co/TSS/NTID_Smart_Classroom.cfm

22

Communication Technologies SLLPL

- Spoken Language Learning & Practice Lab
- Spoken Language Learning & Practice Lab
- Students Work on Variety of Spoken Language Skills



■ <http://www.rit.edu/~462www/index.html>



20

Typical Configuration



23

Communication Technologies Weitbrecht Telecommunication Lab

- Communication Technologies Course
 - Clark & Snell
- Telephone Network
- Wireless Network
- Internet Communication



21

Smart Cart with Smart Board



24

Equipment Cabinet & Display for Low Vision Students



25

Features of an NTID Classroom

- Help System
- Control Room Lights
- Whiteboards
- Smart Board
- Resident Computer
- VHS/DVD
- Visualizer
- Connect Laptop
- Connect Video Phone
- FM System
- Freeze Image



Smart Classroom
Single Projection
16:14:50

28

Close-up of Smart Cart



26

myCourses

- Web-based Course Management System
- Online Environment to Post Course Materials
- Interaction with and Between Students
- Student Registration, Email and Grade Information from University Databases
- Does Not Require Extensive HTML, Web or Programming Skills



29

Equipment Cabinet



27

myCourses

- Features
 - Creates a "Course Shell" Website for Every Course at RIT
 - Faculty Can Use myCourses for
 - Course Content (Syllabus, Assignments, Lecture Notes, & Readings)
 - Communication (Student Collaboration, Announcements, Email, Asynchronous Discussion, Live Chat)
 - Assessment (Online Testing, Gradebook)



30

myCourses

- Examples
 - Teacher Book
 - Student Book
- PEN-International Postings
- <https://mycourses.rit.edu/index.asp>



31

Highest Rated Sessions

- "Technology Integration in the K-12 Classroom" (T11A)
- "BSL Tuition in the Hands of Deaf People – a BSL Academy" (T10C)
- "Creating a Book-on-Demand: Publishing a Workshop Planner's Guide for Promoting Classroom Access" (T9A)
- "Technology in the ASL/English Bilingual Classroom" (T10A)
- "Achieving Goals! Career Stories of Individuals Who are Deaf or Hard of Hearing" (W10C)
- "I Can SEE What You HEAR!" (T10D)



34

Instructional Technology and Education of the Deaf Symposium

- June 27 – July 1, 2005
- Sponsored by:
 - NTID
 - Nippon Foundation
 - PEN-International
- 248 Participants
 - 17 Countries

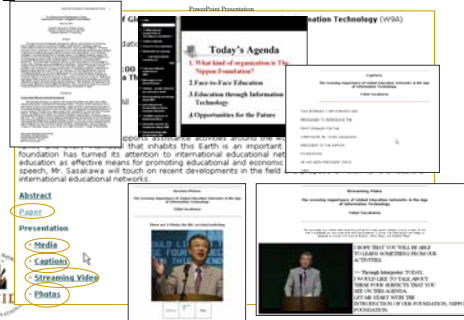
<http://www.rit.edu/~techsym>



4/26/2006

32

Accessing Symposium Resources on the Web



35

Participants

- Curriculum Level

○ Postsecondary	33%
○ K-12	14%
○ Not Specified	53%
- Teachers 32%
- Administrators 15%
- Technologists 10%
- Not Specified 43%



33

Next Symposium Scheduled for June 2008

- Sign-up for Email Announcements
- Suggest Program or Format Ideas
- Possible Greater Focus on Access Solutions
- <http://www.rit.edu/~techsym>



36

NTID Center on Access Technology

- <http://www.ntid.rit.edu/cat>
- Four Strands of Research
 - Classroom Access Technologies
 - Mobil Technologies
 - Training and Evaluation Services
 - Audio and Sound Technologies



37

NTID Center on Access Technology

- Examples of Proposals Being Considered
 - Comparison of Support Technologies
 - Technology to Display Text
 - Instructional & Public Venues
 - Personal or Public Channels
 - Remote Access To & From Presentation Rooms
 - Captioning of Online Multimedia Presentations
 - Focused Sound Systems
 - Interpreter Video Systems in Vans and Buses



38

Questions or Comments



39