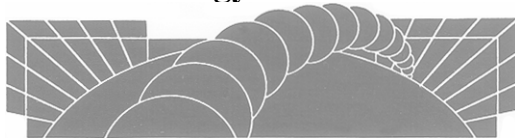


# Instructional Technology and Education of the Deaf



Supporting Learners, K – College  
An International Symposium

Sponsored by  
National Technical Institute for the Deaf at Rochester Institute of Technology  
The Nippon Foundation of Japan and PEN-International  
<http://www.rit.edu/~techsym>

## **Pre-Symposium Workshops ~ June 23-24, 2003**

The National Technical Institute for the Deaf (NTID) will host an international symposium entitled “Instructional Technology and Education of the Deaf: Supporting Learners, K – College” June 23-27, 2003, on the campus of Rochester Institute of Technology (RIT) in Rochester, New York.

A goal of the Symposium is to provide a forum for educators supporting deaf and hard-of-hearing learners to disseminate information relative to current and future innovations and developments in the use of educational media and technology within the teaching/learning process. A symposium consisting of 3 plenary addresses, 38 formal presentations and 24 poster sessions will occur on June 25-27, 2003. A second goal is to provide a hands-on opportunity for participants to develop skills in the application of instructional technologies to the learning/teaching process through enrollment in Pre-Symposium Workshops, June 23-24, 2003. The descriptions for these all day workshops are below.

Complete symposium information and program details can be found at <http://www.rit.edu/~techsym>. The Symposium and Workshop Registration form, which lists registrations costs, can be found at [http://www.rit.edu/~techsym/Reg\\_Form\\_2003.pdf](http://www.rit.edu/~techsym/Reg_Form_2003.pdf)

Contact E. William Clymer, Symposium Coordinator, [techsym@rit.edu](mailto:techsym@rit.edu), 585-475-6894 (V/TTY) for more information.

### **Monday, June 23, 2003**

#### **WS1 Videoconferencing**

(Limit: 10 participants)

This workshop will cover the 'basics' of videoconferencing including:

- what videoconferencing is
- how videoconferencing is being used at NTID and in K-12 environments
- strategies for using videoconferencing with deaf and hard-of-hearing students
- hardware and software issues
- scheduling issues and technical support
- videoconferencing etiquette
- differences between room-based and desktop videoconferencing, and among ISDN, IP2 and regular web-based videoconferencing.

Participants will have the opportunity to explore the features, discuss potential use in their classrooms, and interact live with a remote site. Listings and descriptions of videoconferencing resources will be shared. Approximately 75% of workshop time will be hands-on.

*Camille Aidala is an Instructional Developer in the Department of Educational Resources at NTID. For the past seven years, she has designed and implemented educational videoconferences through her work with faculty, staff and students in the K-12 and college environments. Camille received her M.A. in Computing and Education from Columbia University, Teachers College, and has been an instructional technology specialist for the past 18 years.*

#### **WS2 Integrating Digital Video Technology into the Curriculum**

(Limit: 9 participants)

MAC computers

This workshop provides basic hands-on training in the use of Apple's consumer digital video software iMovie. Participants will learn how to use digital video to enhance curricula, encourage teamwork, improve communication and organization skills, and enhance student projects. Issues such as how to film with a digital video camera, how to import and export video footage, how to add transitions, and how to add audio and text will be discussed.

*J. Troy Olivier is the Facilities Coordinator for the Digital Imaging and Publishing Technology Department at NTID/RIT. He has been a professional staff member at NTID for 13 years. Troy has earned both an A.A.S. in Media Production and a B.S. in Imaging System Management from RIT. Troy has experience in digital imaging, digital video editing, presentation media, and website development.*

#### **WS3 Digital Imaging Essentials**

(Limit: 8 participants)

MAC computers

This workshop provides hands-on training in digital image acquisition and processing. It will include the essential issues that effect and determine the quality of digital images including resolution, color space, and basic color and sharpness controls. Resolution will be demystified (dpi, ppi, lpi, mamagepixel). Learn the differences between and appropriate use of file formats (BMP, PCT (PICT), GIF, JPG (JPEG), PING, TIF (TIFF)). Participants will experience acquiring and processing images from a variety of sources including: a digital camera, a scanner, a Kodak Picture CD, a Kodak Photo CD, a stock photo source on CD, an internet download and a clip art library.

*Ed Mineck is an Associate Professor in Digital Imaging & Publishing Technologies at NTID/RIT. He is also a consultant and trainer for industry as well as a regular presenter at national and international conferences on digital imaging topics that include: image acquisition, processing, manipulation, enhancement and output; page layout and design; and traditional and digital photography and processing. <http://www.rit.edu/~emmncv>*



**WS4 IdeaTools: Building Interactive Online Courses for Deaf Learners on the Web** (Limit: 14 participants) PC computers

IdeaTools is an online course-building software application created by Simon Ting, a deaf instructional developer at NTID. IdeaTools automates many of the tasks of creating interactive Web sites for instructional purposes. It supports the development of visual Web-based learning materials appropriate for deaf and hard-of-hearing learners with weak reading skills. IdeaTools runs on a Web server. Thus, any teacher with a Web connection can utilize it from home or office without purchasing other software.

A team of NTID faculty, including Rose Marie Toscano, Dean Laury, and Aaron Weir, will facilitate this workshop, giving participants hands-on experience in using IdeaTools to create online courses incorporating existing materials that they have been using in their teaching. Participants will go through all the steps needed to redevelop these materials into Web-based lessons, interactive exercises, online assignments, computer-graded quizzes. They will learn to create online forums to facilitate course-related discussions; they will build an online course calendar and create an online grade book. They will learn to use graphics, charts, and diagrams to create visually attractive Web-based learning materials that students can utilize at any time and from any place if they have access to the Web. Prior to the workshop, participants will be advised on what they should bring in order to take part in workshop activities.

*Simon Ting is an Instructional Developer in the Department of Instructional Development and Evaluation at NTID. In 1992, he graduated from Gallaudet University with an M.S. in Educational Technology (Special Education/Deafness). He has developed several Web-based software packages that empower educators to use the Web as an instructional medium to support classroom teaching and distance learning, particularly with respect to the special needs of deaf learners.*

*Dean Laury has been an Instructor in the NTID/RIT Applied Computer Technology Department for seven years. He has a Master of Science degree in Information Technology with concentrations in Network Technology and Network Planning, Control, and Management. He is currently using IdeaTools to develop two online courses in Networking.*

*Rose Marie Toscano is Associate Professor of Language and Literature in the NTID Department of Liberal Arts Support where she has been teaching writing and literature since 1980. Since 1998, she has been involved in the use of IdeaTools to create a "hybrid learning" environment in which traditional classroom instruction is complemented by the use of web-based technology. Together with Simon Ting, she has been awarded two VATEA grants to develop a Reading/Writing Tutor, a remedial instructional tool to help deaf students improve reading and writing skills.*

*Aaron Weir is a Visiting Assistant Professor in the Department of Cultural and Creative Studies at NTID/RIT. He also provides fundraising consulting for nonprofits, especially in the area of performing arts. He has taught over two academic years in the area of literature and social sciences. Aaron received his M.A. from Cleveland State University in English Literature.*

**WS5 Microsoft Word for Educators** (Limit: 10 participants) PC computers

This workshop will demonstrate the use of many of Word's advanced features for creating clear and eye-catching instructional materials, for facilitating group writing, and for providing comments to students on their writing. Participants will experiment with the Word features that make it easier to create documents with more than one author; keep track of multiple revisions; share information about documents with others; use advanced formatting techniques; insert tables, graphics, textboxes, hyperlinks, and callouts; and create templates.

*Susan Kelly is an Assistant Professor in Applied Computer Technology at NTID/RIT. She has taught Microsoft Office (Word, Excel, PowerPoint, and Access) to her students for the last three years. She has extensive experiences in various programming languages for the last 20+ years. Languages such as C/C++, HTML, Visual Basics, SQL, Cobol, Pascal, etc.*

**WS6 Using Advanced PowerPoint as an Effective Teaching Tool** (Limit: 8 participants) MAC computers

In this workshop, participants will learn how to create more effective presentations using advanced features and use Microsoft PowerPoint as an effective teaching tool. Topics will include planning presentations, layout and design, creating and importing graphic elements, digital images, templates, and incorporating motion graphics such as Quicktime video. Attendees will also learn how to effectively utilize PowerPoint drawing tools, title and slide master, slide animation, slide transition and timing. The use of hyperlinks and exporting to web pages will be introduced. The issues, needs, and requirements for creating presentations for classes, school boards, and web page audiences will also be discussed.

This workshop is for teachers of deaf and hard-of-hearing students who already know how to create PowerPoint presentations. In this workshop, participants will take a lesson plan and create a PowerPoint presentation to use with their class. The day will be divided between demonstrations and individuals hands-on experience.

*David Hazelwood is an Assistant Professor in the Digital Imaging and Publishing Technology Department at NTID/RIT. He has been a faculty member at NTID for 22 years and his areas of interest and expertise are in traditional imaging, digital imaging, presentation media, and web page development.*

*Omobowale Ayorinde is an Assistant Professor in the Digital Imaging and Publishing Technology Department at NTID/RIT. He has been a faculty member at NTID for 22 years and his areas of interest and expertise are in traditional imaging and presentation media.*

**WS7 Project-Based Open Lab** (Limit: 10 participants) PC & MAC computers

Participants will work on their own instructional product development in the technologically nurturing environment of NTID's Educational Technology Resource Room. The lab will be staffed with designers and technicians skilled in instructional design and with the software and hardware resident in the lab. The ETRR will be open from 9:00am-4:00pm. Only those taking this Open Lab workshop will be admitted.

The lab is equipped with Macintosh and Dell computers, scanners, digital cameras, digital videocameras, VHS to digital transfer equipment, CD & DVD burners, Internet connectivity, wireless capability, an ELMO, and a projection system. Software includes: Apple iMovie and FinalCut Pro; Microsoft Word, Excel, PowerPoint, Access, FrontPage, Visio, and Publisher; Adobe Acrobat, AfterEffects, GoLive/LiveMotion, Illustrator, InDesign, PhotoShop, PhotoElements, PageMaker, Premiere and Streamline; Macromedia Director, DreamWeaver, Fireworks, Flash, and FreeHand; FileMaker; OmniForm and OmniPage Pro; QuickTime Pro; QuarkXPress; and digital clipart.

*Educational Technology Resource Room Staff*

**WS8 Cochlear Implant Technology** (Limit: 90 participants)

There are over 60,000 people with cochlear implants worldwide. At least 10,000 of these individuals are children. Therefore students with cochlear implants in the classroom are no longer a novelty. How are educational systems preparing for children using cochlear implants? The all-day workshop is geared towards educators



who have an interest in cochlear implant technology and the educational implications for students using cochlear implants. Speakers from cochlear implant centers and school systems will lead the participants through the cochlear implant candidacy process and post-implant intervention strategies used in educational settings. The workshop will conclude with a moderated question and answer period with a panel of the speakers. The following presenters are scheduled:

**Gerard J. Buckley, Ed.D. (Opening Remarks)**  
Associate Dean of Student Affairs  
National Technical Institute for the Deaf

**Dr. John Wayman & Dr. Paul Dutcher**  
The Otology Center of Western New York  
University of Rochester Medical Center

**Dr. Robert Pollard**  
Associate Professor of Psychiatry (Psychology)  
Director, Deaf Wellness Center  
University of Rochester Medical Center

**Ms. Margo Long**  
Educational Consultant  
Manhattan Eye and Ear Hospital

Symposium registration is  
not required to register  
for this workshop!

**Mr. Don Rhoten**  
Superintendent  
Western Pennsylvania School for the Deaf

**Ms. Catherine Clark**  
Assistant Professor, Audiology Department  
National Technical Institute for the Deaf

**Mr. Sidney Barefoot**  
Associate Professor, Department of Speech and Language  
National Technical Institute for the Deaf

**Dr. Marc Marschark (Panel Moderator)**  
Professor, Department of Research  
National Technical Institute for the Deaf

## Tuesday, June 24, 2003

### **WS9 Communication Technologies**

The Audiology Department at NTID offers a course called Communication Technologies. In this course, deaf and hard-of-hearing students learn to use innovative communication software and wireless communication devices.

In this workshop participants will learn about the curriculum and how to teach students to use communication software and wireless communication devices.

Topics will include:

- TTYs and TTY software
- cell phones and hearing aid compatibility
- cell phones and TTY compatibility
- text messaging and breakthrough technologies
- discussion and applications

Participants will complete a hands-on lab activity for each software and device. Each participant will receive a CD with student units and lab activities.

*Karen Snell is an Associate Professor at NTID where she has introduced deaf and hard-of-hearing students to communication technologies for over 16 years. Karen has a Ph.D. in audiology from the University of Iowa and her current teaching and research focus is on speech understanding in noisy backgrounds and text messaging.*

*Catherine Clark is an Assistant Professor in the Audiology Department at NTID/RIT. She has been a faculty member at NTID for 17 years. For the past 10 years, Catherine has collaborated on the development and teaching of the "Communication Technologies" curriculum. She has also disseminated information on communication technologies through presentations and publications.*

### **WS10 Integrating Digital Video Technology into the Curriculum**

(Limit: 9 participants)

MAC computers

This workshop provides basic hands-on training in the use of Apple's consumer digital video software iMovie. Participants will learn how to use digital video to enhance curricula, encourage teamwork, improve communication and organization skills, and enhance student projects. Issues such as how to film with a digital video camera, how to import and export video footage, how to add transitions, and how to add audio and text will be discussed.

*J. Troy Olivier is the Facilities Coordinator for the Digital Imaging and Publishing Technology Department at NTID/RIT. He has been a professional staff member at NTID for 13 years. Troy has earned both an A.A.S. in Media Production and a B.S. in Imaging System Management from RIT. Troy has experience in digital imaging, digital video editing, presentation media, and website development.*

### **WS11 Digital Imaging Basics**

(Limit: 12 participants)

MAC computers

This workshop is for those who have no experience with digital imaging. Participants will experience hands-on training in the use of Adobe Photoshop Elements. Using this consumer grade application, participants will receive training in the basics of digital image acquisition and manipulation. Images will be acquired through the use of digital cameras, scanners, CD's, internet downloads and clip art libraries. Issues such as scanning images, image resolution, layering images, and adding effects will be discussed. Image formats such as .TIF, .PSD and image compression formats such as .GIF, .JPG will be also discussed. Image preparation for presentation (PowerPoint), the Web and print will be introduced.

*Tony Toscano is an Associate Professor in the Department of Digital Imaging and Publishing Technology and a working artist. His expertise is in the area of visual communication and he has extensive experience in academia and industry. His areas of interest include image acquisition, image manipulation, image preparation, presentation media and Web design.*

### **WS12 Web Site Development**

(Limit: 12 participants)

PC computers

This workshop is an introduction to creating Web sites. It will be taught in a Microsoft Windows computer laboratory using FrontPage 2002, a popular, powerful Web-creation tool also from Microsoft. At the end of the day, attendees will have created and published a small Web site using the following features: links, a navigation bar, text formatting, themes, graphics, and tables. The day will be divided equally between demonstration by the workshop leader and individual hands-on practice by the attendees, each of whom will be provided with a computer for the day. Time will be reserved towards the end of the workshop to discuss how to effectively and dynamically implement their Web sites for the educational curriculum. Samples of Web sites designed for classroom and student use will be



presented. Each participant will receive a workbook with sample files that will be used to guide the instruction. Attendees should be familiar with the Internet and Web browsers, with word processing, and with Microsoft windows. No prior knowledge of FrontPage is necessary.

This workshop is being cosponsored by the Deaf Initiative in Information Technology Project (DIIT), funded, in part, by the National Science Foundation and will be offered in the NSF DIIT computer laboratory established by the DIIT project.

**Donna Lange** is an Assistant Professor in the Applied Computer Technology Department at NTID where she has worked for over 15 years, including serving as Department Chair. She has a Bachelor of Science degree in Computer Science from SUNY Brockport and a Masters of Science degree in Software Development and Management from RIT. Her current interest and teaching has been in the area of web page development using HTML and FrontPage.

### **WS13 Electronic Portfolios**

(Limit: 12 participants)

PC computers

Electronic portfolios give their creators the opportunity to introduce themselves, indicate their roots and interests, showcase their best work using both photos and PowerPoint presentations. The Electronic Portfolio Builder enables its users to develop an individualized electronic portfolio that can be published on the Web or on a CD-ROM for use in the job search process. The presenters will describe their experience using electronic portfolios to help deaf and hard-of-hearing students in the job search process. They will demonstrate the functions and capabilities of the Electronic Portfolio Builder.

During this workshop, participants will:

- create an electronic portfolio, including a resume, PowerPoint presentations, photos, links to professional interests
- create categories for an electronic portfolio that could have samples of work added later
- organize and publish their portfolios on the Web using the Electronic Portfolio Builder
- burn a CD with their electronic portfolios on it

Prior to the workshop, participants will be advised on what specific information they should bring in order to leave with a completed electronic portfolio. Following the workshop, participants will be allowed continued access from their home school to the Electronic Portfolio Builder.

**Simon Ting** is an Instructional Developer in the Department of Instructional Development and Evaluation at NTID. In 1992, he graduated from Gallaudet University with an M.S. in Educational Technology (Special Education/Deafness). He has developed several Web-based software packages that empower educators to use the Web as an instructional medium to support classroom teaching and distance learning, particularly with respect to the special needs of deaf learners.

**Kathy Dollinger-Meyer**, RSD Alumni 1975, SVP 1975, is an Employment Specialist in the Dept. of NTID Center of Employment (NCE) since 1999. She enjoys working with NTID/RIT students majoring in Art and Computer Design, Graphic Design, Industrial Design, Social Work, Psychology and Professional/Technical Communication. She also works with different employers to hire our potential students. She teaches Job Search Process for NTID students to prepare for their working world. After she received M.A. in Rehabilitation Counseling for the Deaf, she has been a rehabilitation counselor for the Deaf for the past 20 years.

**Kurt Stoskopf** is an Instructor in the Art and Computer Design Department at NTID. He graduated from RIT with a B.F.A. in Graphic Design and a M.F.A. in Computer Graphics Design. Kurt currently teaches computer graphics and web design at NTID and was instrumental in developing the web design concentration for the Art & Computer Design department. He has expertise in computer graphics, web design, and traditional illustration.

### **WS14 Adobe Acrobat for Educators**

(Limit: 12 participants)

MAC computers

This workshop will demonstrate the many major benefits of using Acrobat 5.0 to create, annotate, navigate, protect, and distribute electronic documents.

Participants will:

- make PDF files from application files, from PostScript files, and from existing HTML files and on-line Web pages
- add file-protection security to PDF files
- edit and modify PDF files
- add bookmarks and internal hyperlinks
- extract pages, images, and text from PDF files
- add annotations to PDF files
- add multimedia and Web hyperlinks to PDF files
- make a searchable PDF catalog

**Ken Hoffmann** is a Professor in the Digital Imaging & Publishing Technology Department at NTID/RIT. Ken has been a faculty member at NTID since 1982 and was department chairperson from 1991-2001. Ken has been a teacher and craftsman in the printing and publishing industry since 1974 and has been a frequent presenter of industry seminars and workshops for the past 18 years. Ken's primary areas of interest and expertise include desktop publishing layout, typography, PDF document production, and print production workflow.

### **WS15 Project-Based Open Lab**

(Limit: 10 participants)

PC & MAC computers

Participants will work on their own instructional product development in the technologically nurturing environment of NTID's Educational Technology Resource Room. The lab will be staffed with designers and technicians skilled in instructional design and with the software and hardware resident in the lab. The ETRR will be open from 9:00am-4:00pm. Only those taking this Open Lab workshop will be admitted.

The lab is equipped with Macintosh and Dell computers, scanners, digital cameras, digital videocameras, VHS to digital transfer equipment, CD & DVD burners, Internet connectivity, wireless capability, an ELMO, and a projection system. Software includes: Apple iMovie and FinalCut Pro; Microsoft Word, Excel, PowerPoint, Access, FrontPage, Visio, and Publisher; Adobe Acrobat, AfterEffects, GoLive/LiveMotion, Illustrator, InDesign, PhotoShop, PhotoElements, PageMaker, Premiere and Streamline; Macromedia Director, DreamWeaver, Fireworks, Flash, and FreeHand; FileMaker; OmniForm and OmniPage Pro; QuickTime Pro; QuarkXPress; and digital clipart.

**Educational Technology Resource Room Staff**

