


# [ PEN-International Use of Videoconference Technology ]

E. William Clymer  
Jeff Porter  
James J. DeCaro





PEN-International  
<http://www.pen.ntid.nih.gov>  
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# [ Overview ]

- Successes and Challenges Using Videoconferencing
  - Meetings
  - Training
  - Research
  - PEN Systems

# [ The Nippon Foundation of Japan ]

- Provides Funds for PEN-International
- Establish International Network
- Improve Education in Participant Countries

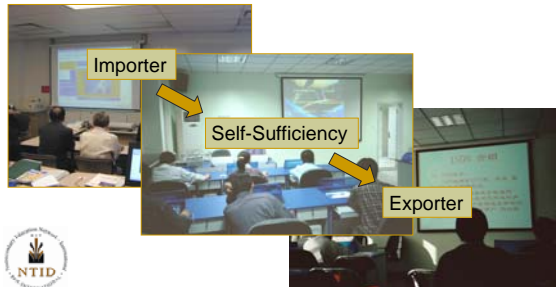




# [ PEN-International Goals ]

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





# [ Vision ]

# [ Implementation Strategy ]

- Needs Assessment
- Faculty Development Model
- Establishment of Multimedia Computer Labs
- Online and WWW Resources
- Evaluation & Research

## Founding of PEN-International

National Technical Institute for the Deaf  
Tianjin University of Technology  
Bauman Moscow State Technical University  
Tsukuba College of Technology  
The Nippon Foundation of Japan



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## PEN- Partners

- NTID (USA)
- Tsukuba College of Technology (Japan)
- Tianjin University of Technology (China)
- Bauman Moscow State Tech University (Russia)
- College of St. Benilde (Philippines)
- Beijing Union University (China)
- Changchun University (China)
- Charles University (Czech Republic)
- Ratchasuda College (Thailand)



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## National Technical Institute for the Deaf (USA)

- Established in 1968 on the campus of RIT
- 1250 Students
- 475 Faculty/Staff



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## Tsukuba College of Technology (Japan)

- Established in 1990
- Technical College for Deaf Students
- Approximately 200 Students



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## Tianjin University of Technology (China)

- Established in 1991
- First Technical College in China
- Serves 125 Students



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## Beijing Union University (China)

- University Established in 1985
  - Deaf Program in 1999
- Serves 125 Deaf Students



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### Changchun University (China)

- Established in 1987
- Serves 200 Deaf Students



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### De La Salle University College of Saint Benilde (Philippines)

- Deaf Education Program part of College of Saint Benilde
- Serves Approximately 150 Students



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### Bauman Moscow State Technical University (Russia)

- Deafness Center Started in 1990
- Students Mainstreamed
- Serves Approximately 250 Students



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### Charles University (Czech Republic)

- Students Mainstreamed
- Serves Approximately 120 Special Needs Students; 24 Who are Deaf



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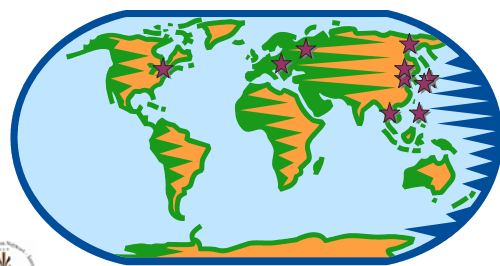
### Ratchasuda College Mahidol University (Thailand)

- Founded in 1991
- 89 Students Who are Deaf



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### PEN Partner Locations!



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## Implementation & Importance of Videoconferencing

- PEN to Use Instructional & Information Technology
- Benefits of Videoconferencing
  - Vast Distances Between Sites
  - Need for Direct Visual Communication



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## PEN Multimedia Computer Labs

- Support Student Learning
- Support Faculty Development of Materials



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## Lab Specifications

- Smart Classroom Technology
- Display Computer, Video, Objects
- Local Area Network
- 12 -18 Student Computer Stations
- **Videoconferencing**



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## Lab Videoconference Capability

College	Level
NTID	Partner
TCT	Partner
TUT	Partner
BUU	Partner
CU	Partner
BMSTU	Partner

## Application of Videoconference Technology

- Business Meetings
- Training
- Research Interviews



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## Business Meetings

- Majority of Calls for Meetings Between Partners
- 3-4 persons at each site
- Translators and Interpreters
- Frequent Calls!



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## Training

- Web-based Posting
  - Agendas
  - Objectives
  - Participant Bios
  - Resources
- Communication Plan
- Managed Interaction



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## Training

- Transcripts Created and Posted
- Email Exchanges
- Evaluation Forms



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## Training

- 2003 Technology Symposium
- 75 Faculty from Tianjin, Beijing and Manila Participated in Conference



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## Research Interviews

- Qualitative Research in China
- "Situation of Deaf Students at Tertiary Level?"
- Normally Requires Face-to-Face Interaction
- Videoconferencing Alternative Means of Data Collection



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## Research Interviews

- 15 Lengthy Interviews with Students, Faculty & Administrators
- Face-to-Face Communication Using Spoken and Sign Translators
- Interviews Recorded & Transcribed for Analysis



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## PEN-International System

- PolyCom View Station EX
- 3 ISDN Channels
- IP Capable
- 3 Video Cameras
- Projected and Panel Displays



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## PEN-International System

- Internet Connection via Laptop
- "Smart Whiteboard"
- Audio & Video Recorders
- Speaker Telephone
- Fax and Copier Available



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## Questions or Comments

- For More Information
  - Bill Clymer, Coordinator, PEN-International
  - [ewcnpc@rit.edu](mailto:ewcnpc@rit.edu)



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## Instructional Technology Symposium

- June 23-27, 2003
- Sponsored by:
  - NTID
  - Nippon Foundation
  - PEN-International
- 275 Participants
  - 12 Countries
- Major Utilization of Video Technology



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## Videoconferencing Technology at the Symposium

- All concurrent presentations were videotaped for streaming
- Sessions sent live to American School for the Deaf



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## Videoconferencing Technology at the Symposium

- Some off-site sessions were delivered via video



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## Videoconferencing Technology at the Symposium

- Presentations repeated for China and Philippines during the evening-day

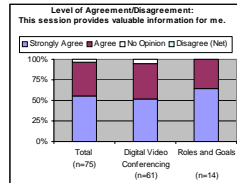


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## Videoconferencing Technology at the Symposium

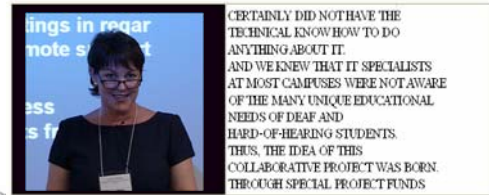
- Video conference evaluations very positive.



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## Videoconferencing Technology at the Symposium

- Captioned Video on WWW Site



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## Accessing Symposium Resources on the Web



"I really appreciated the captions, especially being able to read it again after the Symposium."

2003 Symposium Participant



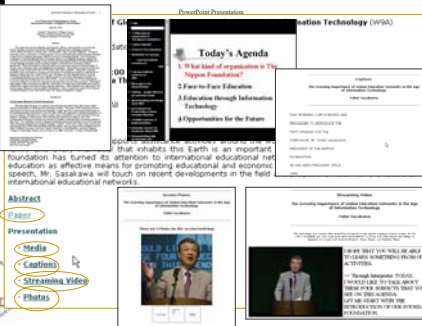
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## Accessing Symposium Resources on the Web



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## Accessing Symposium Resources on the Web



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## 2005 Symposium!

- June 27-June 30, 2005
- <http://www.rit.edu/~techsym>



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