

# Interactive Videoconferencing for Lynn Elementary

An exploration of possible uses for  
available equipment by Cynthia Tittle,  
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# Terms to Know

- IVC – interactive videoconferencing equipment
- NASA – National Aeronautics and Space Administration
- CILC – Center for Interactive Learning and Collaboration

# Research on uses of Interactive Videoconferencing for learning

- **Most research with adult learners**
  - Preservice teachers (Plonczak, 2010 and Bello, Knowlton, & Chaffin, 2007)
  - Nursing students (MacIntosh, 2001 and Zerr & Pulcher, 2008)
  - College political science course (Box-Steffensmeir, Grant, Meinke, & Tomlinson, 2000)
  - College informational technology course (Stafford & Lindsey, 2007)
  - Rural health care providers (Malay & Moore, 2002)
- **World-wide studies**
  - University of New England/Australia music studies (Smyth & Zanetis, 2007)
  - Botswana and New Zealand multicultural studies (Kumar & Bhattacharya, 2007)
  - Library studies in Northern Ireland (Martin, 2005)
- **Benefits**

Saves time, provides enriching experience, relieves some anxiety, promotes problem-solving skills and communication skills, provides resources that are limited to some areas, unlimited content possibilities
- **Barriers**

Technology glitches, facilitator's questioning skills and preparation, students' prior knowledge and motivation to interact, reflective activities
- **Future**
  - Individual conferences via iPhone?
  - Hands on activities at a cost?
  - Internet pen pals?

# Survey of Needs and Attitudes

Utilized to identify needs at Lynn Elementary School

- How difficult do you feel the IVC equipment is to operate?
- What are some things that are barriers to using the IVC equipment for your classroom?
- What are some ways that you think the IVC could be used if these barriers no longer existed?
- Where do you think we could get ideas for using the IVC equipment?
- What learning objectives/subjects do you think the IVC equipment could easily incorporate?

# Documentation of Use of Multipurpose Lab (Location of IVC at LES)

- Time-line: August, 2011 through February, 2012
- Grades 4 – 7, Gifted, and Special Education Classes regularly used lab
- One third grade teacher occasionally
- Used for testing, research, educational websites on laptops or desktops
- No recorded IVC use before March, 2012

# This Project

Goals related to needs survey

- **Eliminate barriers**

Provide knowledge and experience with equipment

Create time for planning and scheduling

Do not schedule out of class time

Eliminate cost by searching for “free” visits

- **Explore possible uses**

Connect to concepts taught

Identify enriching experiences

Virtual Field Trips

Guest speakers

Professional Development/System-wide meetings

# This Project - continued

- Identify resources for locating IVC ideas
  - Internet
  - Co-workers/colleagues
  - System Webmaster/Technology Department
  - System-wide Blog to share experiences
- Align activities with learning objectives
  - NASA
  - CILC
  - International Studies
  - ALEX, textbooks

# Post Implementation of IVC Activities

- **Teacher and student surveys**

Results were overall fairly positive with exceptions of technical difficulties due to connections. These problems are better since a more broad band connections has been installed by TDS.

- **Experiences related to research**

LES experiences were in line with research found. Disadvantages related to technical difficulties. Advantages: interact with an expert, facilitator motivated students to interact, it was fun!

- **Future implications**

Experienced colleague now available

Practice registering for IVC activity

Plan for 2012-2013 School Year

Investigate use of electronic calendar such as Google

Continue use of Virtual Field Trips Blog

[Winston County Virtual Field Trip Blog](#)

# Final Thoughts

- Response from Asian-American student  
(International student who visited Lynn Elementary via IVC)
- Student drawings  
(From CILC activity)
- Video of kids sharing knock-knock jokes  
(Within system visit involving class with transferred students)
- Tips for planning CILC activity
- NASA registration is easy – check with your librarian, Mrs. Tittle has set up accounts for all LES faculty
- Questions/comments

# Resources

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# CILC Field Trip

Go to CILC website <http://cilc.org/>

- Select “Catalog” tab.
- Select under “Technology Type” – IP
- Select under “Provider” – leave “all” to search all
  - We used International Studies for Students
- Select under “Event Cost” – Free
- Select under “Types of Content Offerings” – Educational Programs
- Select under “Details” the details you would like to have displayed on the information pages.
- Click “next.”
- Then, select the discipline, grade level, etc. you wish to match with your trip.
- Click “next.”
- Then, select more details to be displayed on your customized catalog.
- A list of optional activities to choose from will appear. This may be printed.

# NASA Field Trip

## Go to NASA site

<http://www.nasa.gov/offices/education/programs/national/dln/index.html>

### Browse Event Catalog

Check for “free” and beware of professional development events in “free” list

To register you must have an account. You can set up your own, but, check with your librarian. You may already have an account. All LES faculty have accounts set up.

When registering, a calendar will show available dates. You will receive an email approving your registration and giving you instructions to confirm.

Always print out the email. It contains IP number to call, contact information, pre-trip and post-trip activities, etc.

# Tips for Successful IVC Trip

- Preview the event information. Copy student pages needed for the event. Prepare students for the trip.
- This is a live event.
- The speaker should be treated with the same respect as a speaker in your classroom. Students should raise their hands to speak or ask a question, except when otherwise instructed. Sometimes the facilitator will ask the teacher to call on a student to respond or the class may be asked to give a group response.
- The microphone is extra sensitive.
- The speaker will hear feet shuffle, pencils tap, etc. Talk to students about good listening skills.
- Be in the multipurpose lab 10 minutes before the event starts. The site will be called 15 minutes before class begins.
- Please complete the teacher and student After-trip Surveys and place in Mrs. Tittle's mailbox.