

# Distance Education Using Contemporary Technology




**Prof DA Wahlström JD MS F.ASCE**  
**South Dakota State University**  
**Skype: dawahlstrom**

Sharing Good Practices: E-learning in Surveying, Geo-information  
Sciences and Land Administration  
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# Some history

## Cassette tapes

-  Early '80s
-  No support
  -  Simply a realtime recording

## Video camera


-  Early '90s
-  Graphics were *de minimus* in quality
-  Sound was not always good, especially when someone asked a question





## Live remote sites

-  Simply a video of the ongoing lecture

  -  Microphones were provided so those at remote sites could ask questions (they seldom did)

-  DVDs for use in subsequent presentations

## Packaged DVDs (from above)

-  Two campus exams per course

# The current method

## Realtime presentations over the Internet

### Tools

#### Skype

- Video Camera
  - » High quality
- Microphone
  - » Possible to use camera's built in microphone
- Headphones
  - » Optional (can also use computer's speakers)
- Tablet (for use with whiteboard)
  - » Bigger is better

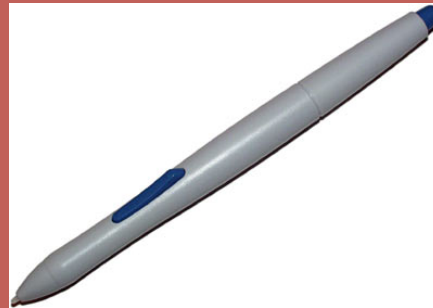


## ... continued

- **FTP site**
  - Indexed
  - Easy to use
- **Yugma** (an addon for Skype)
  - Whiteboard
  - Provides for sharing of the instructor's desktop
  - Creates a recording of whiteboard activities
- **Pamela** (an addon for Skype)
  - Lecturer recorder

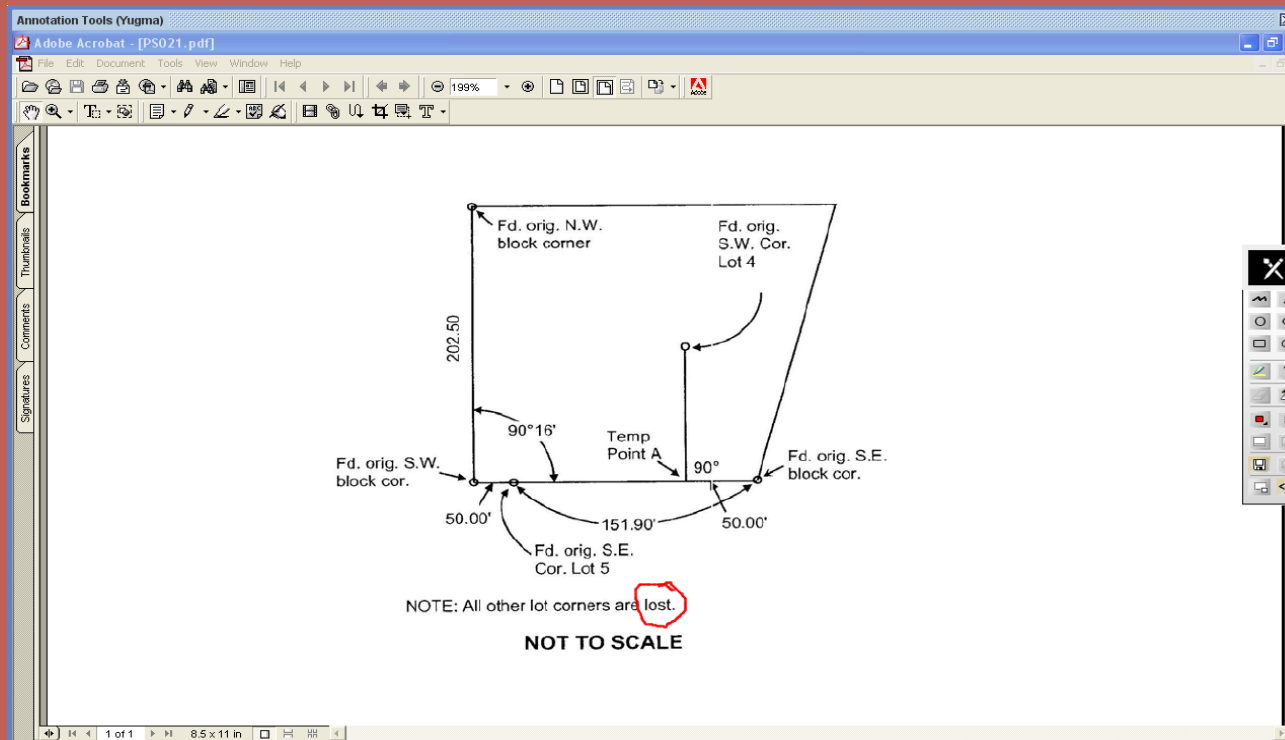


# Some of the Tools



A preexisting sketch loaded on my Desktop as viewed by a distant participant.

The addition of the red circle occurred during the lecture.



Live video of the presenter placed over a plat.

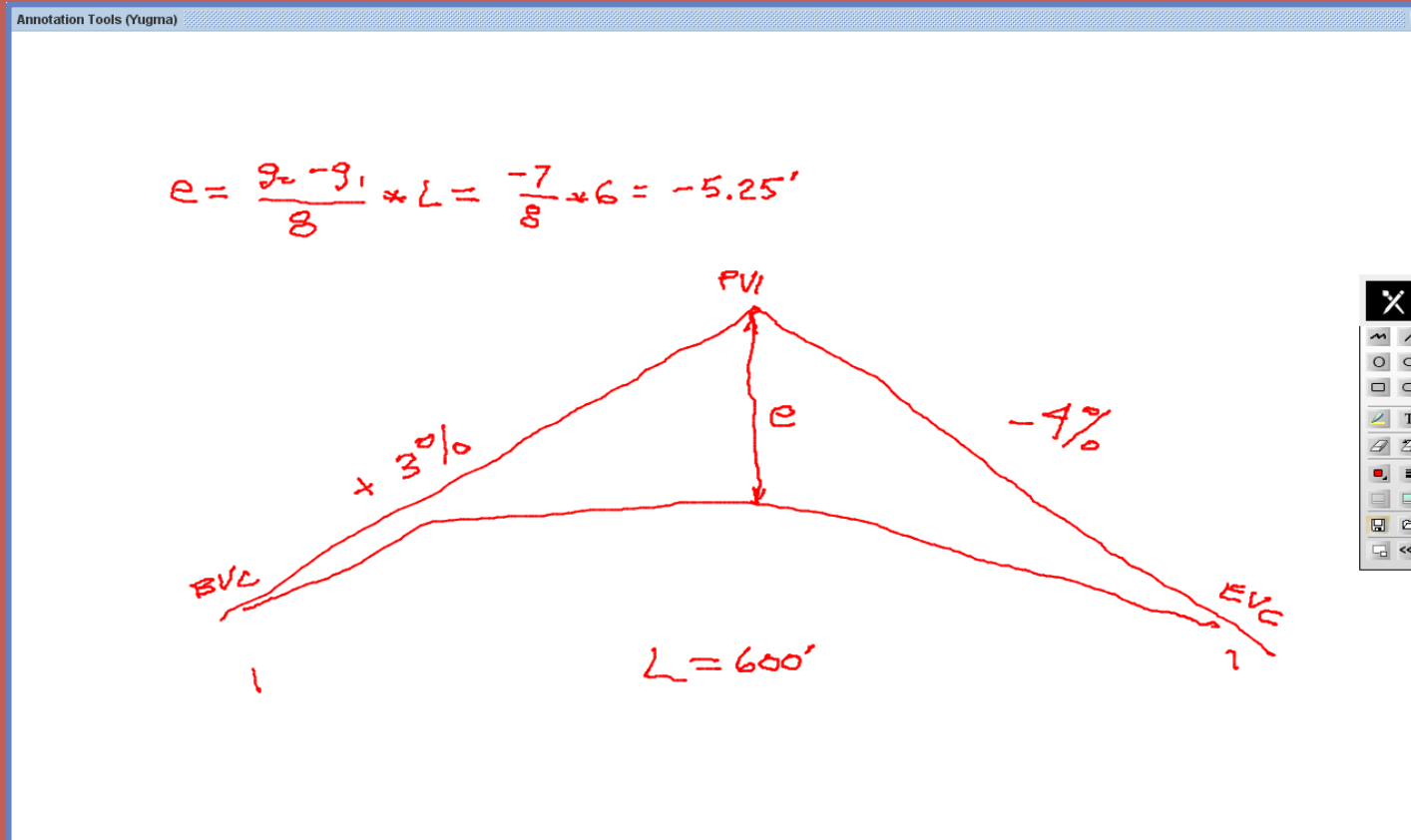
The red rectangle was placed as the lecture developed.

The image shows a computer screen with a live video lecture. The main window is Adobe Acrobat displaying a survey plat. A red rectangle highlights a specific area of the plat. Overlaid on the right side of the plat is a QuickCam window showing a live video of the presenter. The plat contains various measurements and bearings, including bearings like  $N 89^{\circ} 52' W$  and  $N 89^{\circ} 58' W$ , and distances like 77.75, 80.00, and 622.67. The text "Sec. 6" is prominently displayed in the center of the highlighted area. The QuickCam window includes a "Take Photo" button and a "Record Video" button. The Adobe Acrobat window shows a toolbar with various annotation tools and a status bar at the bottom indicating "1 of 1" and "20.84 x 17.17 in".



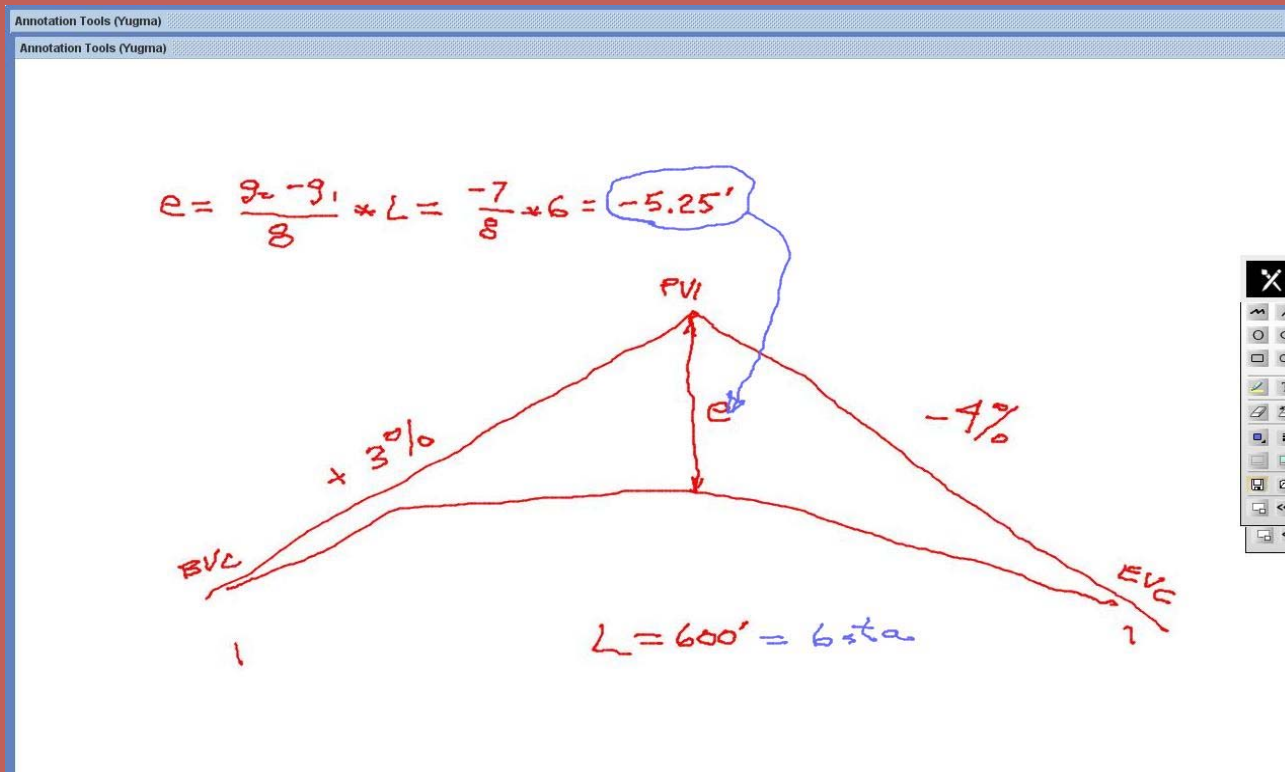
A sketch developed while lecturing on the subject of vertical curves.

Note the Yugma whiteboard menu on the far right.



A return to the previous sketch based on a participant's query and request for clarification.

Note the change of color of the newly added annotations.



 Pamela (an addon for Skype)

 Audio Recorder

 Podcasting



# Finally ...

- We are well into the oughts! Time to add your Skype address to your business card!
- Thanks for the opportunity to share this information.
- Dave Wahlström
  - S Dak State Univ - USA
  - Skype: dawahlstrom
  - eMail: david@smultron.com

