



Using Lecture Capture to Enhance Student Learning

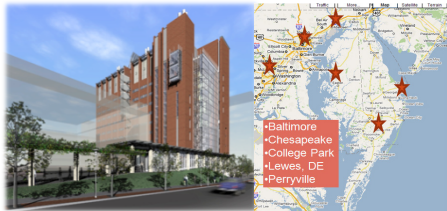
Dr. James F. Craig, Professor, Educational Consultant, Ed.D; Mr. Doug Brotherton, Instructional Technology Specialist, BA
Ms. Julie Gilliam, Instructional Technology Specialist, MS; Ms. Sarita Sanjoy, Instructional Technology Specialist, MS
Dental School, University of Maryland – Baltimore, 650 W. Baltimore Street, Baltimore MD 21201



Introduction:

- **Mediasite** (lecture capture) integrated into curriculum 2006.
- Access to content 24X7
- Captures include: audio, everything processed through projector, video of instructor, all notations on slides.
- Can stop, start, speed up or slow down audio and video or “jump” to any portion of presentation.
- Lectures and demonstrations captured and streamed while being presented.
- Students all have a front row seat for demonstrations.
- Captures retained in password protected catalogue.
- Special events (graduation, Dean’s State of the School Address, continuing ed.) also captured
- Reports detailing who watched what, when and how many times can be generated.
- Streamed to multiple sites simultaneously.
- Great for special need/foreign students and remediation.

Delivered to Multiple Sites:



Technology:

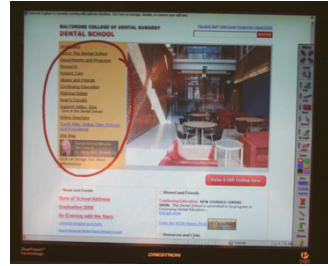
- Control room
- Crestron controller
- Two video cameras (front/ back)
- 4 Mediasite recorders
- Telestrator (drawing tool)



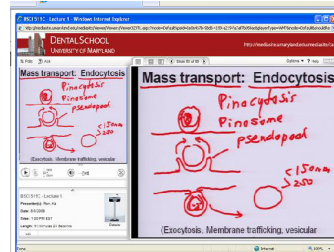
Control Room:



Front Row Seat for Demonstrations:



Using Telestrator on Slides:



Survey Results:

- 388 students responded (96%)
- 84% first experience with capture
- 116 viewed >100; 111 >200
- 96% prefer to view alone
- 73% prefer viewing streaming of telestrator rather than instructor

- 96% viewed all or most
- 65% viewed 3-5 days later
- 96% viewed 6pm to midnight
- 39% helped them prep for Boards
- 44% helped attract to Maryland
- 94% satisfied with experience

Liked Most:

- Stop, start, repeat
- Anytime anyplace
- Speed control to watch faster or slow down
- View missed lectures
- See what instructor emphasizes

Quotes:

- When I broke my ankle and was out of school for 2 weeks, it made keeping up less stressful.
- If I miss something I did not understand in class I am able to go back and review it as many times as necessary.
- I can go straight to a portion of a lecture that I was previously confused about and listen again to the lecturer’s explanation.
- Pause to take notes without missing the next thing the instructor says, which is not the case in class.

Liked Least :

- Can’t hear, instructor doesn’t wear microphone or walks away from podium.
- Telestrator not used.
- Instructor doesn’t advise IT so lecture not recorded.
- Instructor doesn’t repeat questions

Quotes:

- Professors walk away from microphone.
- Instructors take class attendance for credit.
- Some faculty do not like the fact that students use the lecture capture and give special consideration to those who attend.

Totals: Fall 06 – Spring 09

- Captures: 2,666
- Views 256,978

Did Lecture Capture Help Learning:

- **93% said it helped them learn**