Audience Response Systems

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Background/Purpose of the Technology
Audience response systems (ARS) supports an interactive and fun learning environment by providing immediate feedback from the audience to a presenter. ARS combine remote wireless hardware with software integrated into presentation software. ARS allow for rapid tabulation and saving of student response. It can be used for grading and attendance taking. Its use increases student attentiveness and retention. It allows for anonymous polling while allows tracking of individual responses, and quickly displaying those responses. We currently use TurningPoint in the OSU College of Medicine for:

1. Asking questions to insure comprehension during a lecture
2. Review sessions
3. Just in time education – allows faculty to ascertain what students know and don’t know
4. Gather data for reporting
5. Support for TBL and other small group activities

Where to locate:
http://en.wikipedia.org/wiki/Audience_response

First steps in using: (How-to)

Download and Install TurningPoint®

1. Go to http://oit.osu.edu/site_license/slwin.html#turningpoint
2. Choose the latest version of TurningPoint®
3. Follow the download and installation instructions.
4. You will need your OSU Internet username (name.#) and Password.
5. Launch TurningPoint® by clicking on the TurningPoint® Icon. PowerPoint® will open with a TurningPoint® ribbon.

6. Open or Create a PowerPoint® presentation file.

7. To create an interactive slide: Locate the TurningPoint® ribbon. It is located on the top portion of your PowerPoint® screen. The TurningPoint® ribbon is your command line for creating interactive slides.
8. From the TurningPoint® ribbon click on “Insert Slide”
9. Scroll down the list with your mouse and left click a slide type from the list. Note: Vertical Slide and 3D Pie Slide work well
10. Directly on the slide: Enter your question into the text box entitled “Enter Question Text...”.
11. Directly on the slide: Enter correct and incorrect responses into the text box entitled “Enter answer text.” Each potential response must be separated by a hard return and each response requires a unique identifier (e.g. a number).
12. This step is optional; however, it does add a level of control to your slide.
   Left click the “Insert Object” drop down menu. Select Countdown.
   You can select from several options
   **Note:** Timer works well

**Simulating a Group Response Session**

13. Left click on the down arrow next to word “Response Data” as displayed on the
   TurningPoint® toolbar.
14. Highlight the word “Simulated Data”, and left click your mouse.
15. Your system will now simulate responses during slide show mode.
16. In the presentation mode review your presentation.
17. You can now advance through slides as usual.
18. When you get to an interactive slide, notice the grid at the top of your screen is
   simulating the collection of responses.
   a. “responses” shows how many participants
      have responded (30 is total when simulating a group response session.)
   b. “user feedback” is the number of participants who have left feedback
   c. The green box indicates polling is open
19. If you did not add a countdown left click will close the polling and generate the graph.
20. If you added a countdown left click will start it. Polling will close at the end of the countdown. Left click again to
    generate the graph.
   **Note:** If you would like to reset your slide, use the F4 key.

**Getting Started with TurningPoint® Checklist**

- One month before, reflect on your presentation and where you would add interactive questions
- Review teaching strategy articles http://telr.osu.edu/clickers/teaching/ideas.htm
- Three weeks before install TurningPoint®
- One week before the first time you use TurningPoint®, schedule a meeting with your classroom technology support
  team to run through your presentation
- Two days before email your presentation to your classroom technology support team so they can review it and load it
  onto the computer.
- Arrive 10 minutes before your presentation for a final run through and to ask any final questions.
- After your lecture reflect on your entire presentation and the effectiveness of your interactive questions.

**Proof of Principle**

Turning point is currently used throughout the medical school curriculum as well as for GME and CME presentations.

Article citations that show outcomes:

Pileggi, R et al. Team-Based Learning Using an Audience Response System: An Innovative Method of Teaching
McCarter MW and Cava A. Audience Response Systems as a Data Collection Method in Organizational Research. J
Harris ST and Zeng X. Using an Audience Response System (ARS) in a Face-to-Face and Distance Education CPT/HCPCS
Coding Course. Perspectives in Health Information Management. On line Journal

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