

Outreach breakout group

Museum 1/2

- CoreWall(s) is mounted vertically on a wall.
- first thing a visitor sees is title: **Great Moments in Earth History**
- Below the title is an image of a rotating Earth with dots (selected coring sites) distributed across the sphere.
- Using a trackball, a visitor rolls a cursor across one of the dots and presses a button to select it
- Upon selecting a coring site, the title screen with its rotating sphere is replaced by a schematic of a cross section through the Earth from the top of the drill rig (on a ship or on land) to the bottom of the bore hole in question. The section of drill core that is the focus of attention is highlighted in its proper position along the bore hole. (A text box in the vicinity of the bore hole provides attribute information – who drilled the core, when, etc.)

Museum 2/2

- Using the trackball, the visitor pulls the cursor down to the highlighted section of drill core. When the cursor lands over the section, it automatically enlarges to occupy the entire vertical real estate of the CoreWall, revealing all of the detail of core
- visitor then prompted (through audio and/or text clues) to find the site along the core corresponding to a major Earth event. Visitor uses the trackball to move the cursor up or down the core. (If they want help, they can request it. If they do so, they will be informed via audio and/or text clues, if they are moving toward – hotter – or away – colder – from the location of interest on the drill core
- Once a visitor lands the cursor on the location of interest (e.g. the K/T boundary) various multimedia features are activated that depict the Earth event that is recorded in the sediment
- The visitor then is prompted about whether they want to investigate another sediment core

K-12 Classroom 1/2

- teachers have no time - need straightforward info in packet
- teachers may not be familiar with the concepts
 - needs very complete background info: coring, this exercise, related issues: climate change, plate tectonics
- coring examples should relate to benchmarks and be easy to relate to existing topics in curriculum
- simple starting point - print out sections of a core from pdf, tape them together, show down hallway/stairwell - can talk about time; its big, cheap, hands-on, group activity and gives context for corewall
- with additional tech - corewall on projector or computer lab
 - corewall shows same core they printed out
- need set of representative canned samples to go along with it
 - different stories you can tell with different cores
 - teachers could request samples (local/global interest, e.g. k-t boundary, related to current events)
- need set of frequently asked questions and answers

K-12 2/2

- need recent OS and hardware to install corewall
- for core imagery itself could use simpler software (pdf viewer, image viewer, maybe web-based)
- possible test group from school of rock - august - 5th - 12th grade teachers
- maybe we can store corewall ed stuff on www.joilearning.org

undergraduate

- freshman non-majors could use the K-12 materials
- major undergrads could go to more abstract examples, personal examples
- less background material needed
- ability to play with more full-featured version of corewall