Career in Feet-on Seismology

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Education Plan:
1. Develop a new interactive Earth Slicer.
2. Build an interactive Feet-on Seismology tool that integrates real-time data, and live webstreamed data.
3. Develop curricula and modules around this tool, and
4. Test them with groups of children as a field trip to the lab.

Middle and High School

Visitors include:
1) Students-
PROJECT EXCITE! 3rd graders study the Haiti earthquake
4th graders locate a mystery earthquake
Pritzker Elementary
Science Night with portable version of the tool on laptop, using SeisMac and a web browser.

6th graders split in three groups of 15 and follow 3 component curricula:
1) Study seismology on line @USGS, Google Earth, & IRIS Seismic Monitor
2) Study seismic waves with clinometers and human waves,
3) Jump, See, & Compare.

NASA Capstone
High school juniors locate a mystery earthquake

Jr. Science Cafe
Science Night with portable version of the tool on laptop, using SeisMac and a web browser.

Project Excite!

3rd graders study the Haiti earthquake
4th graders locate a mystery earthquake

Pritzker Elementary

Science Night with portable version of the tool on laptop, using SeisMac and a web browser.

Elementary School

Visitors include:
1) Project Excite! students
2) Pritzker Elementary, School Science Night

The Jump

5 years ago

Acknowledgements

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Under- and Graduate Students: Erin Adams, Tommy Babcock, Bowser; Farrow; Frey; Eight; Lawrence, Brandt, Lu; St. John; James, R. Brown; 
Dean: Parke Berghoff, Sony Parsh, Bob Gundersen, Chad Tetzlaff

Development includes:
1) Footprint outreach activities (see on IRIS)
2) New course in Instrumentation, includes building own seismometer
3) Instructor Data Management Course for the Next Generation of Seismologists,
4) Open source, framework based new interactive delay time tool

University

USArray Short Course
Week long summer short course at Northwestern draws diverse graduate students from across the USA. The course is sponsored by NSF, Earthscope and IRIS.

New Interactive delay- time tool is developed by CAREER supported graduate student

USArray. Its first "distributed" application is presented on an interactive poster. The tool semi-automates measurement of teleseismic arrival times through the use of a specific set of user-controlled data quality judgements.

New Analysis Tool

Under- and graduate students build their own seismometers in three steps: 1) mechanical, 2)mechanical + electrical, 3) analogue + digital.

IRIS Earth Model Collaboration + Interactive Kiosk

http://www.iris.edu/dms/products/iris/

Prototype at http://begees.northwestern.edu/maps/map_code.php

Challenge:
Find competent personnel.
Solution:
Work with IRIS DMC.

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