

Volcano Dance A Creative Union of Science, Technology & Art

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Internet2 Fall Member Meeting, 2009 Collaboration Special Interest Group Wednesday, October 7, 2009

connect • communicate • collaborate

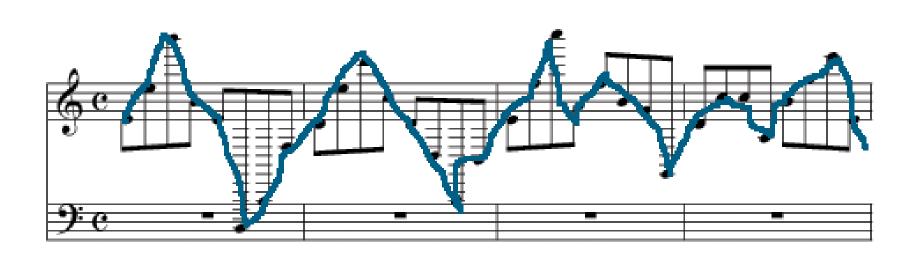
Converting Volcano Seismograms into Music - Why & Who?



- To make volcano seismograms audible
- To correlate seismic stages with melodies and/or sounds
- To discover the "signature tune" of an eruption
- To save human lives!
- Began in Italy (Mount Etna) in 2001
- Ecuador became involved (Mount Tungurahua) in 2006
- Philippines joined in (Mts. Mayon & Pinatubo) in 2008/9

Converting the Seismogram to Music





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Sonification on Computing Grids



- Digital sound synthesis is computationally demanding
- Grids provide the necessary computing power and distributed data storage
- The EGEE, the EELA (and EELA2) and the EUMEDGRID grid infrastructures were used on GEANT, EUMEDCONNECT and RedCLARA backbones:
 - More than 30,000 computer processors across Europe, Latin America and lower Mediterranean involved.
- Researchers share information, data, experiences and knowledge.

The Mountain: From Science to the Arts





- The Mountain by CityDance Ensemble: world premiere 10-11 Sept 2009, The Kennedy Center for Performing Arts, Washington DC, USA
- Music by Domenico Vicinanza (based on seismograms of 4 volcanoes: Etna, Tungurahua, Pinatubo, Mayon), Choreography by Jason Garcia Ignacio
- Info: www.volcanodance.org