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SPICE: Seismic Wave Propagation and Imaging in Complex Media: A European Network

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SPICE is a Marie Curie Research Training Network funded within the 6th EU Framework Program. The network integrates 14 European institutions with specialisations in physical, mathematical, geological, and computational aspects of wave propagation. The goal is to develop, verify and apply computational tools for wave propagation and imaging problems on all scales. The network is comprised of 14 postdoctoral positions and 14 Ph.D. positions. Specific research areas include (1) the determination of global Earth structure; (2) the quantitative estimation of strong ground motion; (3) the characterization and monitoring of reservoirs; (4) understanding the structure and processes inside volcanoes; and (5) simulating the physical processes of earthquake rupture. The research projects are complemented by yearly open research and training workshops and special sessions at international meetings. We recently held the first training workshop on "Numerical methods applied to wave propagation problems" in Venice, Italy. The next workshop will be held in September 2005 in Smolenice, Slovak Republic with focus on "Large-scale simulations and specific applications in seismology". In addition to developing a www-based digital library with verified computer algorithms for research and training purposes we are developing an accessible database with simulation results. Complementary training material on various aspects of wave propagation and the associated numerical solutions is also being developed. We present the results of the first year and upcoming events within the network. More information is available on http://www.spice-rtn.org.