

Simulation Webinar Powers Renewable Energy Projects

Westminster, CA. March 10, 2009. NEi Software (NEi), a leading developer of Nastran Finite Element Analysis (FEA) software, announces a webinar titled, "Renewable Energy: Engineering Innovation and Reliability Through Simulation" on Thursday, March 26 at 11:00AM EST, 2:00PM PST. Registration is at www.neisoftware.com/renewable_energy.

Audience and Webinar Benefits. The webinar is intended for designers, engineers and project managers working on renewable energy projects facing the technical and business challenge of a fast track to cost effectiveness and high reliability to compete with entrenched power sources. To achieve this level of engineering performance for wind, solar, wave, and geothermal energy, engineers are turning to analysis and simulation software for a variety of compelling reasons. Simulations strengthen innovation by allowing a comprehensive and critical exploration of alternatives. Parts can be optimized in the design stage saving precious time and money by eliminating rounds in the conventional multiple series of prototypes, tests, and modifications. Computer validation of part performance catches problem areas, saves costly re-designs, and improves quality and reliability. Virtual testing provides the insight for development of more effective and meaningful physical test protocols.

Agenda and Topics. To illustrate these benefits, NEi Software's webinar will perform several types of engineering analyses.

- Stress Analysis of a composite wind turbine blade will illustrate capabilities for modeling orthotropic materials, load application, and options for display of stress and deformation results.
- Vibration Analysis of a turbine tower foundation will be performed with an examination of mode shapes and operational frequencies.
- Bolt Modeling will show how key stress and deformation information can be obtained quickly and accurately for bolted connections and clamping preloads.

In addition to these specific applications, the examples will illustrate the wider principles of structural analysis software and the technical insight available regarding stress, deformation, and vibration characteristics of engineering structures. Further, an understanding will be gained for the methodology and benefits simulation software can provide in other areas of mechanical design in renewable energy like kinematics, impact, fatigue, heat transfer and fluid dynamics. Femap® will be used as the pre/post processor for model set up and examination of results. NEi Nastran will be used as the solver. The examples will show how Femap with NEi Nastran meets the requirements of realistic and dependable solutions.

Images for this press release are at www.NEiNastran.com/PressReleaseImage.

About NEi Software

NEi Software is a world leader in Nastran Finite Element Analysis (FEA), engineering simulation, and virtual test software. Engineers gain insight with digital prototypes, images, contour plots, graphs, and animations of linear and nonlinear structural stress, deformation, dynamics, vibration, kinematics, impact, heat transfer and fluid dynamic (CFD) simulations. The website features case studies in aerospace, automotive, maritime, petroleum, medical, and consumer products with demonstration videos, webinars, tutorials, class schedules, and options for evaluation. Website: www.NEiNastran.com | Telephone: 714.899.1220 | Email: info@neisoftware.com

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