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**ASME-IGTI 2011 Booth #519**

## ***Concepts NREC Advancing Clean and Efficient Turbine Technology at ASME Turbo Expo***

***Applies 50-plus years of expertise to provide today's solutions and propel tomorrow's design system***

**White River Junction, Vt.** – May 25, 2011 – [Concepts NREC](#), a world leader in turbomachinery-focused design and development, CAE/CAM software and manufacturing services, will have significant presence at the [ASME 2011 Turbine Technical Conference and Exposition](#) (ASME 2011 Turbo Expo) June 6-10 at the Vancouver Convention & Exhibition Centre in Vancouver, B.C. The theme for the show is Advancing Clean and Efficient Turbine Technology, and Concepts NREC will exemplify this theme with two technology sessions as well as a next-generation turbomachinery design system demonstration for engineers, designers, and manufacturers.

“Making turbomachinery more efficient and reliable is the most effective and least controversial way we can address our society’s energy and environmental needs,” says Mark Anderson, Vice President of Software Development for Concepts NREC, who will demonstrate the company’s turbomachinery design system. “With 50-plus years of pioneering expertise, Concepts NREC understands the realities of making turbomachinery more efficient and can optimize designs for enhanced performance with competitive life cycle cost.”

Advancing turbomachinery technology through innovative design concepts and effective computer aided design tools is crucial to solving our world’s energy problems. For example, optimization plays an important role as every one percent (1%) gain in efficiency can account for noticeable gains in fuel conservation. In order to successfully orchestrate current and future developments in clean and efficient turbomachinery systems, engineers and technologists must know what solution options and design tools are available to them. At ASME 2011 Turbo Expo, Concepts NREC will exhibit its leading-edge [Agile Engineering Design System](#)®, including such turbomachinery tools as [Pushbutton CFD](#)® for easy three-dimensional flow analysis, [TurboOpt II](#)™ for design optimization, and [TurboMatch](#)™ for initial turbocharger sizing.

Additionally, Concepts NREC will showcase its [TurboGreen™ Energy](#) program of world-class innovative services, including engineering design of turbomachinery systems and

components such as: efficient and wide-flow range turbochargers, high-performance and low-cost energy recovery turbines, reliable pumping machinery, and turbomachinery for sustainable energy solutions. These design services and advanced technology developments continue to successfully propel novel energy systems programs sponsored by the U.S. Department of Energy (DOE) and a diversity of product development projects for clients working with biogas, biomass, geothermal, hydro, nuclear, solar, tidal, wave and wind power generation technologies.

“Because Concepts NREC recognizes the need for educational advancement, its energy experts help industry professionals cross the educational and technological chasm and push limits to achieve maximum efficiencies,” adds Anderson.

Concepts NREC provides technical courses and [webinars](#) throughout the year, and three of its representatives will participate in ASME 2011 Turbo Expo programs – two as program chairs and one presenting an original program developed by Concepts NREC. The programs are:

- **Tuesday, June 7, 10:15 a.m. to 12:15 p.m. in COMM 33 –Turbomachinery: Radial Turbomachinery; 33-5 Turbocharger Compressors II** with Dr. Colin Osborne, session organizer and Chief Engineer for Concepts NREC. This session will address developments in component aerodynamic design aspects for centrifugal compressors as well as installation effects for turbocharger compressors.
- **Wednesday, June 8, 2:30 to 5:00 p.m. in COMM 18 – Microturbines & Small Turbomachinery; 18-8 Turbochargers: Design & Optimization II** with Dr. Louis Larosiliere, session co-chair and Director, Aero/Hydro Engineering for Concepts NREC. This session will cover developments in turbocharger optimization with emphasis on improved energy recovery turbines.
- **Thursday, June 9, 12:30 p.m. on the Exhibitor’s Stage in the Exposition Hall – Concepts NREC’s “Next Generation Turbomachinery Design Systems”** with Mark Anderson, Vice President of Software Development for Concepts NREC. Anderson will discuss the crucial role Computational Fluid Dynamics (CFD) plays and where software capabilities are heading to advance energy solutions.

### **About Concepts NREC**

Concepts NREC is a leading worldwide organization providing turbomachinery design, engineering, manufacturing and CAE/CAM software, with a staff of 100+ professionals at its facilities in Wilder, Vt., and Woburn, Mass. For over half a century, Concepts NREC has provided manufacturers, users, government agencies and the engineering community with technology tools, services and products that have met their needs, helped achieve their goals, and aided in development and production of some of the world’s most advanced products. Concepts NREC is headquartered at 217 Billings

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