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Contact:

Jim Miller, V.P. Sales and Marketing
Concepts NREC
jmiller@ConceptsNREC.com
+1 802-280-6122

Notre Dame Turbomachinery Laboratory Using Concepts NREC's CAE Software to Design Next-Generation Turbines & Compressors

White River Junction, VT, USA – May 4, 2017 — Concepts NREC is pleased to announce that the Notre Dame Turbomachinery Laboratory (NDTL) will use Concepts NREC's Agile Engineering Design System® to generate and evaluate new designs for their turbines and compressors. NDTL's first project will be designing a deswirl blade row for their single stage compressor facility. The software will also be integrated into both the undergraduate and graduate courses they have in propulsion and turbomachinery.

"We are currently using Concept NREC's Agile Engineering Design System to design and analyze components that will be used for a research program involving an axial flow compressor", explained Dr. Michael Bilka, Research Scientist at NDTL and Research Assistant Professor in the Department of Aerospace and Mechanical Engineering at the University of Notre Dame. "This includes blade design and CFD analysis. The Agile software is used to quickly iterate blade design trade-offs to meet aerodynamic performance objectives."

Dr. Peter Weitzman, VP and General Manager of the software business at Concepts NREC commented, "Concepts NREC is dedicated to partnering with leading research labs around the world to help drive innovation in the turbomachinery field. These relationships offer benefits to everyone involved. The labs have CAE software optimized for turbomachinery, students get experience on industry-leading software used by many global companies, and Concepts NREC gets valuable feedback to continue improving our offer."

About Concepts NREC

For over 60 years, Concepts NREC has been a strategic partner to many of the world's leading turbomachinery companies. We are the only company in the world that offers a complete in-house solution - from initial concept through design software, manufacturing, testing, and installation. To learn more visit www.conceptsnrec.com

About the Agile Engineering Design System

Concepts NREC's Agile Engineering Design System® is a complementary suite of programs for Computer-Aided Engineering (CAE) and Computer-Aided Manufacturing (CAM) that covers the

entire design process — from preliminary sizing through fluid dynamics and mechanical stress and vibration analysis. Final designs can be easily imported into our industry-leading CAM software, MAX-PAC™, to create efficient 5-axis machining strategies. To learn more visit our software page.

About the University of Notre Dame

Founded in 1842, the University of Notre Dame provides a distinctive voice in higher education that is at once rigorously intellectual, unapologetically moral in orientation, and firmly embracing of a service ethos. The nation's pre-eminent Catholic university and rated among the top 15 of all U.S. institutions of higher learning, Notre Dame is organized into four undergraduate colleges — Arts and Letters, Science, Engineering, and the Mendoza College of Business — the School of Architecture, the Keough School of Global Affairs, the Law School, the Graduate School, 13 major research institutes, more than 40 centers and special programs, and the University library system. Located adjacent to the city of South Bend, Indiana, and in a region with a population of more than 300,000, Notre Dame is highly residential, with 80 percent of students living on campus, and also is known for the quality of its physical plant and the beauty of its campus, including the Golden Dome of the Main Building, the world's most recognized university landmark.

About the Notre Dame Turbomachinery Laboratory

The Notre Dame Turbomachinery Laboratory (NDTL) is focused on research, testing, and workforce development for a wide range of applications that involve turbomachinery technology. NDTL's new 28,000-square-foot, world-class facility offers experimental and numerical capabilities for the development of rotating machinery that requires high power levels and related specialized support. These capabilities create a shorter development path for new gas turbine engine technologies within any industry. NDTL is currently involved in research and product development for a variety of sponsors and collaborators including Pratt & Whitney, General Electric, and Honeywell. For more information, visit turbo.nd.edu.

Corporate Headquarters:
217 Billings Farm Road
White River Junction, VT 05001-9486
USA

Tel: +802-296-2321
Email: Info@conceptsnrec.com

www.conceptsnrec.com