CONCEPTS NREC

NEWS RELEASE
FOR IMMEDIATE RELEASE

AIAA 2010
Booth 118

Concepts NREC Displays Propulsion Turbomachinery Technology at the 46th AIAA Joint Propulsion Conference & Exhibit

Will demonstrate more than 50 years of expertise in turbomachinery for propulsion applications including advanced work for air breathing engines and rocket turbopumps for NASA, the US Military, and others

White River Junction, VT. – July 15, 2010 – Concepts NREC (*CN*), a world leader in turbomachinery design, research, engineering, and manufacturing, will exhibit at the 46th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit (JPC) July 25 to 28 in Booth 118 at the Nashville Convention Center & Renaissance Hotel in Nashville, Tenn. Concepts NREC engineers will demonstrate technology that underscores the company's over 50 years of experience working on turbomachinery for aerospace propulsion, including advanced technology work for NASA to reduce the required propellant tank pressures and increase the stability of rocket turbopumps. Turbomachinery engineers, designers, manufacturers, and students focused on propulsion technology will benefit from *CN*'s demonstrations.

"*CN* has a depth and breadth of experience and capability that is unmatched by any other independent turbomachinery company. Come and see what turbomachinery solutions we can provide for your aerospace propulsion needs", says Kerry Oliphant, Aerospace Program Manager for Concepts NREC.

At the AIAA JPC, *CN* will exhibit examples of high performance aerospace propulsion turbomachinery and technology:

1) A compressor and turbine designed by *CN* for a small turbojet (30 to 100 lb thrust) for missile applications
2) Compact diffuser technology for low weight and low frontal area requirements in aerospace propulsion
3) High efficiency supersonic mixed-flow impeller designed for unmanned propulsion applications
4) High Suction Specific Speed (NSS) inducer for extremely low tank pressure rocket turbopumps
5) A new test facility at *CN* to measure a cavitating inducer's transfer functions that are critical information for accurate liquid propulsion launch vehicle stability analysis

CN's Agile Engineering Design System® (Agile) turbomachinery software is used by engineers, designers, and product manufacturers. Software demonstrations also will be given in *CN*'s booth number 118 during the exhibition.

CN's participation at the AIAA JPC is part of an expanding program of activities that the company has rolled out this year to support the growing success of its turbomachinery software, services, and education. For more information about forthcoming events, webinars, and courses, please visit www.ConceptsNREC.com.

About AIAA
AIAA is the world's largest technical society dedicated to the global aerospace profession. With more than 35,000 individual members worldwide, and 90 corporate members, AIAA brings together industry, academia, and government to advance engineering and science in aviation, space, and defense. For more information, visit www.aiaa.org.

About Concepts NREC
Concepts NREC is a leading worldwide organization providing turbomachinery design, engineering services, manufacturing, and CAE/CAM software, with a staff of over 100 professionals at its facilities in Wilder, VT, and Woburn, MA. For more than 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 Farm Road, White River Junction, VT, 05001-9486. Telephone: 802-296-2321. Facsimile: 802-296-2325. For more information, go to: www.ConceptsNREC.com.

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