

CONCEPTS NREC

**NEWS RELEASE
FOR IMMEDIATE RELEASE**

Concepts NREC Launches PUMP: 2010 a Year Long Activity to Provide Economic Design Strength to all Pump Companies

.... Industry Renowned and Award-winning, Dave Japikse, Ph.D., to Lead Free Seminars



White River Junction, Vt. – September 30, 2009 – [Concepts NREC \(CN\)](#), a world leader in turbomachinery design, research, engineering, software and manufacturing, today announced PUMP: 2010, a new, year-long initiative for the industrial pump design market. Through PUMP: 2010, [CN](#) offers coordinated and comprehensive entry-level and advanced software and seminars for pump design requirements, including finite element analysis (FEA) and computational fluid dynamics (CFD). Ongoing seminars focusing on critical design problems for the industry also are offered. Pump designers and original equipment manufacturers (OEM's) are complemented with a comprehensive and robust design package, engineering

design support and professional seminars.

In support of PUMP: 2010, Dave Japikse, Ph.D., chairman of the board/CEO of Concepts NREC and the 2008 SAE Cliff Garrett Turbomachinery and Applications Engineering Award recipient, will conduct a series of seminars, starting October 12th, at locations across the United States for pump design.

The initiative comes in response to a noted increase in demand for pumps in the 21st Century. According to The Freedonia Group, Inc., a Cleveland-based industry market research firm, [“Global demand for fluid handling pumps is forecast to increase at a 4.4 percent annual rate to \\$47 billion in 2012.”](#)

“The new [CN](#) product offerings free pump designers from the typical spreadsheet-based design process, which can require many days and weeks to develop valid designs,” states Japikse. “Now, pump designers can design and test their products in a matter of a few days before building costly and time-consuming prototypes.”

Our product offerings combine standard industrial pump design methodologies for problems including radial, mixed flow and axial impellers with symmetric volute design features or diffusers or return channels/crossover vanes (bowl pumps) all within [CN's AxCent®](#) module from its Agile Engineering Design System® 2009 ([Agile™ 2009](#)) software. In this suite, [PUMPAL®](#) is used to develop the preliminary meanline geometry

and [AxCent®](#) enables rapid flow analysis of pumps through streamline curvature or high level CFD and FEA evaluations.

The software has been upgraded substantially over the past decade based on client interaction and covers axial, mixed flow and radial pumps, both single- and multi-stage, with full component modeling, including FEA/CFD

Free Seminar Series

Concepts NREC is sponsoring four one-day free seminars to advise pump design engineers in matters of component and stage design for aggressive performance goals. The free seminar series schedule is as follow:

1. Oct. 12th, Midwest (Schaumburg, IL) US pump design seminar (one day – free)
Wingate by Wyndham Schaumburg/Convention Center – 8:30 am
2. Oct. 14th, West Coast (Irvine, Calif.) US pump design seminar (one day – free)
Hampton Inn and Suites Santa Ana – 8:30 am
3. Oct. 16th, Southwest (Houston, Texas) US pump design seminar (one day – free)
Hilton Houston NASA Clear Lake – 8:30 am
4. Oct. 21th, East Coast (Woburn, Mass.) US pump design seminar (one day – free)
Concepts NREC, 39 Olympia Avenue – 8:30 am

Additionally, a set of high performance design workshops has been scheduled for 2009/2010. These workshops will concentrate on designs for advanced pump diffusers, volutes, pump return channels and crossover ducts (for multistage pumps) and inducers, plus rapid machining options for impellers, volutes and diffusers. Preliminary topics for 2010 are:

1. Oct. 26 – 28 ('09), Design Software Workshop for pump designers (2010 Kickoff)
2. Jan. 20 – 22 ('10), Pump Diffuser Design Workshop (hands on)
3. Mar. 1-2, Design Software Workshop for pump designers
4. Mar. 3-5, Pump Return Channel and Crossover Design Workshop (hands on)
5. April, Volute Design and Rapid manufacturing
6. May, Advanced Impeller Design and Economical machining
7. July, TBA
8. August, Pump - Advances in Design, Performance, and Problem Solving (1 Week)
9. Sept., Cavitation, Inlet Design and Inducers

These seminars, workshops and courses demonstrate a solid commitment from CN to assist the entire pump industry throughout 2010 in achieving elevated levels of energy efficiency. The seminars will be taught by experienced CN pump design engineers.

To register, email Concepts NREC at software@concepts-nrec.com.

About Concepts NREC

Concepts NREC (CN) is a leading worldwide organization providing turbomachinery design, engineering services, manufacturing and CAE/CAM software, with a staff of over 110 professionals at its facilities in Wilder, Vt., and Woburn, Mass. For more than

a half 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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