



Phase VI:



Advanced Diffuser & Volute Design Consortium

The longest running R&D program in the history of turbomachinery is active again and accepting new sponsorship. The current program is focused on improving diffuser and volute design as the most effective means to advance the state-of-the-art in turbomachinery performance. This effort builds upon earlier Consortia research and advancements as well as CN's long history of innovative diffuser and volute design. Don't miss the opportunity to join this coalition of industry leaders:



The Mission

The Consortium seeks to develop advanced diffuser designs for improved energy recovery. It features a collaborative environment with a collegial exchange of shared talent and expertise among the sponsors.

Design Focus Areas

- Rotor/diffuser interaction modeling
- New performance prediction models
- Classical diffusers
- Continuous crossovers
- Effects of coupling and geometry on impeller and diffuser performance

Exclusive Benefits

- Cost-effective participation in cutting-edge R&D
- Access to huge base of experimental data
- Advanced modeling techniques and design methodology
- Exclusive access to research results
- Royalty-free licensing rights for IP

Learn More...

The Advanced Diffuser & Volute Design Consortium consists of three two-year phases. If you're looking for state-of-the art diffuser technology to increase your competitive edge, contact us for more information.

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CONCEPTS NREC

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Sponsorship opportunities still available.

About Concepts NREC

Concepts NREC is the world's leading pump, fan, compressor, and turbine design and development organization. For nearly a half century, we have provided global manufacturers, users, government agencies, and the engineering community with the technology, software, design services, and products that have helped produce the world's most advanced turbomachinery products.

Concepts NREC's range of engineering services for the compressor industry includes:

- Feasibility studies and design audits
- Mechanical engineering design and analysis
- Aerodynamic and hydraulic design and analysis
- Systems optimization
- Turbomachinery testing services
- Prototype and large scale product manufacturing

We are an ISO 9001:2008 certified organization. Supported by a global network of factory trained representatives, we are uniquely positioned to provide advanced technology solutions for virtually any turbomachinery-based system around the globe.

Global Offices



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