Dr. Dellacorte(NASA) Neuros visit (2007.9 / 2010.9)

Oil-Free Technology | Applications | Outreach & Education | Team Members

Oil-Free Turbomachinery Program

"High-speed rotating equipment operating without oil lubricated rotor supports . . . bearings, dampers, seals"

Strategic Vision

To realize revolutionary improvements in performance, efficiency and reliability of turbomachinery propulsion systems.

Breakthroughs

Recent technology breakthroughs in
Foil Bearings, **Tribological Coatings**, & **Analytical Modeling**
enable High-Speed & High-Temperature Oil-Free Turbomachinery.

Awarded NASA's FY02 Turning Goals Into Reality (**TGIR**) Mobility Award

Goal

Incorporate recent enabling technological breakthroughs into progressively larger, more complex systems to reach a revolutionary, but practical, Oil-free Aeropropulsion Engine

Site Map

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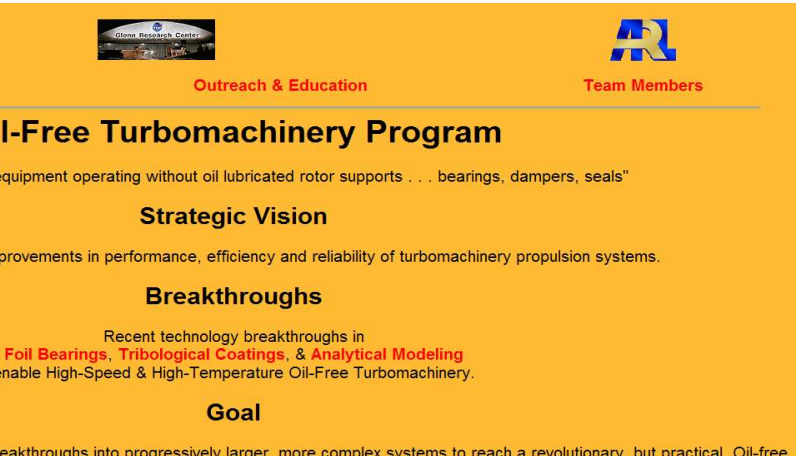

Current and Past Projects:

- Technical Lead for Oil-Free Turbomachinery Technology Program
  - Foil Air Bearings
  - Solid Lubricants
  - Modeling
- Tribology at extreme conditions:
  - High Temperatures
  - Tribology of Ceramics
  - Space and Vacuum lubricants
- Tribology of Ceramic Fibers
  - Seal lubrication

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