



Mechanical Solutions, Inc. (MSI) provides mechanical engineering services to a worldwide client base for machinery and related structures, biomedical devices, electronics, and specialized government applications by delivering practical and effective solutions rather than simply analysis and test results.

Services include new product development, design audits, specialized mechanical/ fluid dynamic testing including MSI's effective Time-Averaged Pulse (TAP™) testing method, linear and non-linear 3D Finite Element Analysis (FEA), rotordynamic and bearing analysis, Computational Fluid Dynamics (CFD) analysis, specialized software development, and troubleshooting of difficult problems.

Applications include turbomachinery for industrial and aerospace services, surgical instruments and implants, circuit boards and other electronic devices, active armor, engines, and munitions.

MSI's staff includes very experienced engineers with diverse, large company backgrounds working closely with talented younger engineers. This mix helps maintain a competitive rate structure and ensures fresh ideas, energy, and future company health.

### What's new?

MSI welcomes Dr. Edward Bennett as our Director of Fluids Engineering. He comes to us from Aerojet and brings with him an outstanding Turbomachinery background. For a more detailed look at Ed, please refer to his resume.

### Mark your calendar

24th International Pump Symposium  
April 21-24, 2008  
George R. Brown Convention Center  
Houston, Texas

**The International Pump Symposium** continues to be the only meeting organized by pump for pump. The members of the Advisory Committee, who provide overall guidance, are recognized leaders in the pump community.

The Symposium is an outstanding value for concerned with maintenance, performance, troubleshooting, operation, and purchase of pumps. The technical sessions provide an opportunity for attendees to select those lectures, tutorials, case studies, and discussion groups that best meet their personal and professional needs and interests.

The exhibits feature products from many key companies in the industry. Exhibiting companies normally send their "first-team" players to this symposium; hence, you can get knowledgeable help at the exhibit hall, in addition to seeing major exhibits of equipment.

### Welcoming Address

25 Years of Driving Pump Technology -- *The Contribution of the Pump Symposium* by Dr. Paul Cooper, Consultant, Fluid Machinery Research, Inc.  
Tuesday, April 22, 2008, 8:00 a.m.

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