



James Froemming, P.E.
CFO & Applications Engineer



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Jim is the chief financial officer, secretary and treasurer of HRST. In addition to his corporate and commercial responsibilities, Jim performs boiler training, design reviews, performance analysis & testing, feasibility studies and market research.

- ◆ **North Atlantic Technologies**—As a VP of engineering for three years, Jim was responsible for management of applications engineering, project management, drafting, research & development and for reducing warranty claims to near zero.
- ◆ **Major OEM for Gas Turbine HRSGs**—Jim worked with this company for 14 years. Positions included an applications engineer, a senior staff engineer, and sales and marketing manager. His commercial responsibilities included management of representative network, contract preparation & negotiation, and market research. Jim's technical responsibilities included management of application, inquiry qualification, specification review and product development.
- ◆ **Sundstrand Energy Systems**—At Sundstrand, Jim did product testing and development of Organic Rankine Cycle (ORC) total energy system for two years.



EDUCATION

Arizona State University, Tempe, AZ

- ◇ MS Mechanical Engineering course work—1977-1978

University of Minnesota

- ◇ Institute of Technology
- ◇ Bachelor of Mechanical Engineering—1976



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PUBLICATIONS

- ◇ **“Thermal & Economic Analysis of Supplementary Firing Large Combined Cycle Plants”**
PowerGen, 2000
- ◇ **“Ensure Steam-Supply Reliability with Fresh-air Fired at HRSGs”**
“Power” Magazine, August 1993
- ◇ **“Design of Gas Turbine Exhaust Heat Recovery Boiler Systems”**
ASME Gas Turbine Conference & Exhibit, Amsterdam 1984
- ◇ **“Dynamic Testy Results of an Absorption Chiller for Residential Applications”**
ASHRAE Summer Annual Meeting, 1979
- ◇ **“Performance Testing of a Three Ton Solar Absorption Chiller”**
AIAA/ASERC Conference on Solar Energy, 1978