

RÉSUMÉ

Joseph A. Barsin

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EDUCATION

MDP Executive, Northeastern University College of Business Administration

BME (Marine Engineering), State University of New York

WORK EXPERIENCE

- 2000- Principal and Chief Technical Officer, **Technocrats, Inc.** (Charlotte, NC)
A technical consulting firm with extensive world wide expertise in the area of converting fossil fuels (from the traditional coal, gas and oil to the non-traditional such as coal water slurries, pet coke, sewage sludge, refused derived, black liquor, recycled paper sludge, and biomass) to energy; control of air emissions; the management of solid fuels ash, slagging/fouling alleviation-all related to the generation of steam for power, industry and pulp and paper. Consultations include the re-powering and or upgrading of plants, operational training, maintenance and the providing of expert testimony.
- 1996-2000 President and Chief Executive Officer, **Magaldi Corporation** (Charlotte, NC)
Designed, fabricated and installed novel high temperature (+1900F) bulk material handling systems in North America as well as traditional conveyor system projects to the cement, lead, lime, foundries and coal fired utility markets.
- 1992-1996 Vice President, Operating Plant Services, **Kvaerner Pulping Inc.**(Charlotte, NC) now a subsidiary of Metso. The responsibilities included the conceptualization and implementation of upgrades, and retrofits, field service, operational training, maintenance and replacement parts to not only Kvaener equipment but to clients owning competitors' equipment as well.
- 1990-1992 General Manager, Boiler Cleaning Equipment, **Diamond Power Specialty Company** -a subsidiary of Babcock and Wilcox (Lancaster Ohio). Responsible for the base business, all markets, domestic and international. The mission was removal of "ash" deposits from fossil fuel fired steam generators or heaters and included new "green field" or retrofits, as well as the development and application of new products for all markets.
- 1985-1990 General Manager, Industrial Projects, Service Division, **Babcock & Wilcox** Company (Barberton Ohio). Responsible for the technical and financial performance of upgrades, retrofits and re-powering for all industrial markets including Pulp & Paper, Industrial, Petrochemical, Steel and Marine markets. Included sales, marketing, project management, installation and performance confirmation.
- 1983-1985 Product Line Manager, Fossil Fuel Systems, **Babcock & Wilcox**. Responsible for the technical and financial performance of the Combustion Systems, Fuel Preparation Systems, Material Handling Systems and Air Heater product lines.
- 1981-1983 Manager of Engineering, Engineered Products, **Babcock & Wilcox**. Responsibilities broadened to include additional product lines such as Fuel Preparation Systems, Material Handling Systems and Air Heater Systems.

- 1975-1981 Manager of Combustion Systems Engineering Department, **Babcock & Wilcox**. Responsible for the research, design, and commercial application of burners and combustors (hardware) for all fossil fuels. In addition, responsible for boiler fuel gas-side design standards, maintenance of the corporate-base fuel technology and the technology necessary to control NO_x, CO, LOI, VOC, particulate emissions and creation/maintenance of corporate slagging/fouling indices. Responsible for training clients and service engineers in the proper operation and maintenance of the equipment; creation of training manuals, operation instructions and forming/hosting/instructing Client User Groups.
- 1971-1975 Appointed Manager of the Mediterranean Field Engineering Region, headquartered in Milan with responsibility for all **B&W** fossil fuel contracts in Eastern and Western Europe, the Middle East, and North Africa. Responsibilities included establishing an office in Milan, Italy; training engineers; commissioning new power plants; correcting design deficiencies; performance testing and collection of final payments; conceptualizing and applying design updates for the retrofit market; maintenance programs and providing technical assistance.
- 1964-1971 Joined **Babcock & Wilcox** in the Field Engineering Department. As a Service Engineer, responsibilities consisted of start-up, performance analysis, and design corrections on large pulverized coal-, gas-, and oil-fired utility steam generators as well as industrial steam generators located in the USA and abroad. Duties included establishing operational and maintenance procedures within operating plants to insure long term availability

PROFESSIONAL AFFILIATIONS

FELLOW and Member of the American Society of Mechanical Engineers (**ASME**).
Chairman, (1984) Fuels & Combustion Technologies Division (FACT DIVISION).
Past member of the Executive Board - Energy Conversion Group.

Member of the Technical Association of the Pulp and Paper Industry (**TAPPI**).
Energy Management Committee, Chairman, (1991-1993)
Engineering Division, Chairman, 2001-2003,
Member Steam and Power Committee, 1985-present

Member of the Carolinas Air Pollution Control Association (**CAPA**)

Member of the Black Liquor Recovery Boiler Advisory Committee (**BLRBAC**).
Former Executive Committee Member, (1988-1991)

Member of the International Flame Research Foundation (**IFRF**)

Member of the Council of Industrial Boiler Owners (**CIBO**),
American Boilers Manufacturers Association (**ABMA**),
Advisory Board on NO_x Emission Reduction, **USEPA**
Advisory Board on the Commercial Application of SYNGAS, **US DOE**
Advisory Board on Vision 2020 (Future Environmental/Energy Efficiency tradeoffs for USPulp/Paper,
Advisory Board on Identifying R&D Opportunities in Pulp, **USDOE**
University of Toronto, Chemical Engineering Department, Pulp and Paper Center;
Research and Development Advisory Board- guidance and direction for basic R&D
Member the Board of Directors: Technocrats Inc.

PATENTS AND HONORS

Patent holder in the areas of combustion devices, and air pollution control.

Awarded George Westinghouse Silver Medal in 1986 by the American Society of Mechanical Engineers. "The medal is bestowed for eminent achievement in the power field of Mechanical Engineering"

Engineering Division of TAPPI "Awarded Certificate of Recognition, for his inspiration and dedication to the EMC of TAPPI. Guidance and Leadership have long been recognized and appreciated by fellow committee members. His ability to effectively deal with change in the volatile worlds of Pulp and Paper and Energy has been an inspiration to all-1995"

Awarded six other certificates of appreciation or recognition, for Service and/or Leadership from ASME, TAPPI, CIBO and the IFRF with similar comments, 1988-2003

Elected to Fellow Grade by the American Society of Mechanical Engineers, 1993.

Best Paper Award-ASME-International Industrial Power Generation Conference 1987

James River Paper Company Corporate - 'FINDING A BETTER WAY' GOLD KEY WINNER AWARD

Awarded the BELOIT Prize by the Engineering Division of the Technical Association of Pulp and Paper Industries (TAPPI). "This prize is bestowed in recognition of his outstanding accomplishments and contributions which improved the industry's efficiency and reduced environmental impacts"

Awarded the 2005 TECHNICAL AWARD by the Engineering Division of the Technical Association of Pulp and Paper Industries (TAPPI) for "over his 40 year career Barsin has impacted the pulp and paper industry with his innovation and dedication"

PUBLICATIONS for details please see pages 1-3 attached.

Summary

More than 50 Peer reviewed Technical Papers presented at conferences and printed in various Technical Journals ranging from analysis of Advanced Retrofits, Re-Powering Success as well as Failures and topical R&D results

Contributed chapters to four books in areas of Combustion, Slagging/Fouling and Energy Management

Contributed more than 20 published articles in "POWER", "Power Engineering" and the "TAPPI Journal"