



STEFAN JACHNA

SUMMARY

Rotating Equipment specialist with over 40 years engineering design experience serving petrochemical, refinery, chemical, and pharmaceutical industries from plant equipment selection, special equipment application, operational problem solving, which led to modifications of equipment and improvement of performance.

PROFESSIONAL EXPERIENCE

LXDE Corporation **2006 - Present**
Monroe Township, New Jersey

S. Jachna Co. Parsippany, NJ **1995 - Present**
Consultant to:

- Fiber Mark Co. Bloomsbury, NJ
- Foster Wheeler Energy Corp., Clinton, NJ
- BASF Corporation, Mt. Olive, NJ
- Lotepro Corp., Valhalla, NY
- J. Brown, Bridgewater, NJ

Improved mill productivity by replacing two unreliable chain drives of the paper producing machine with universal shaft drives. The chain drives were troublesome in operation and the chain breaking caused frequent, expensive production shut downs. The new drives are maintenance free and dependable. Corrected jam prone design of the existing waste paper compactor via modification of compacting ram frame and redistribution of acting forces.

Evaluated bids for blowers induced and draft fans. Reviewed and commented on vendor drawings applicable for fluidized bed boiler. Specified, evaluated and recommended bids for air filter, vaporizer, silencer and compressor for air separation process. Introduced structural modifications to field adaptations of the purchased equipment. Appraised bids for a large, centrifugal gas compressor. Evaluated bids for high vacuum pump and sanitary pumps for pharmaceutical services. Redesign drive shaft coupling of a used reciprocating compressor purchased for a new, heavier duty service.

Kuwait National Petroleum Co. / Foster Wheeler, Kuwait **1992 - 1994**

Consultant - Responsibilities included trouble shooting of coke conveyor, technical expertise and supervision of maintenance and repairs. Improved bridge crane operability by designing and installing a new walkway around the girder. Designed natural lighting system for a large coke storage bay. Initiated improvements to a deficient fire water intake design. Eliminated clogging problem of the conveyor diverter by introducing flexible walls in the existing chute. The existing coke loading station was subject to costly operating trips due to driver overheating and conveyor belt wear. By introducing load supports in the hopper, the load thrust on the belt was reduced, which in turn lessened the driver strain and decreased conveyor belt wear. This modification secured a trip-free operation of the station.

Foster Wheeler USA Corp., Clinton, NJ **1974 - 1992**

Principal Mechanical Engineer - Responsible for job specifications, requisition, selection, evaluation and recommendation of steam turbines, centrifugal and reciprocating compressors and pumps, refrigeration systems, power generating units, hydraulic decoking units, etc. Witnessed performance tests of the equipment and was issuing auxiliary flow diagrams. Analyzed poorly performing installations in the field and recommended improvements. Worked on numerous overseas assignments as machinery specialist and engineering consultant.

Lummus Company, Bloomfield, NJ

1968 - 1974

Rotating Machinery Specialist -Prepared initial job specifications and machinery requisitions, selected construction materials, evaluated bids and recommended equipment for petrochemical processes. Coordinated the flow of information and commented on drawings between vendors and the contractor. Witnessed performance tests and issued test reports.

De Laval Turbine Company, Trenton, NJ

1961 - 1967

Research and Design Engineer - Conducted test laboratory research. Designed high pressure, multistage, centrifugal boiler feed pumps and their components. In cooperation with another engineer successfully redesigned an existing boiler feed pump: As a result of this pioneering work, the configuration of the stage piece was changed from 3-dimensional to 2-dimensional and the manufacturing was changed from expensive "investment casting" to inexpensive machining. Without sacrificing efficiency, this modification reduced the cost of the stage by 60% and the total cost of the multistage pump by over 20%.

Designed Round Valley Reservoir water supply pump. The performance of this pump was so outstanding that the State of New Jersey awarded De Laval a special prize for this work. Trained other engineers to design centrifugal pumps.

T. Shriver & Company, Harrison, NJ

1959 - 1960

Plant Maintenance and Design Engineer - Responsible for maintenance of workshop and machinery. Designed a mechanism for filter tank cake removal. The Company applied for a patent for this mechanism design. Improved casting quality and increased foundry productivity by changing existing procedure and introducing new handling methods.

Vadstena Mechaniska Verkstad, Vadstena, Sweden

1958 - 1959

Design Engineer - Modernized Company's hydraulic test laboratory. Designed a centrifugal pump for supplying drinking water from Lake Vattern to the town of Vadstena. This pump replaced an old reciprocating unit. Redesigned a thrust bearing for central heating system circulating pump.

EDUCATION

Ph.D. ME, New Jersey Institute of Technology, Newark, New Jersey
MSME, Stevens Institute of Technology, Hoboken, New Jersey
MSME, Gdansk Polytechnic Institute, Gdansk, Poland
BSME, Gdansk Polytechnic Institute, Gdansk, Poland
Professional Engineer, State of New Jersey



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