

## ● Policy

Assist pump technology and manufacturing in the world, along with taking care of pump sites and discussing face-to-face.



## ● Selling points

- 1) Experienced pump engineer on design, development, troubleshooting etc for 32 years in Ebara corporation.
- 2) Practical engineer who sticks to the site and has worked while actually making hands.
- 3) Such experiences, I was registered as a 「professional engineer」 by Japanese government.
- 4) Recognizing energy-saving is a worldwide problem, and registered as a qualified 「energy manager」 by Japanese government.
- 5) Mastered 「API 610」 which is the most reliable pump design specification in the world.
- 6) Having know-how about the development of high efficiency pumps.
- 7) Many experiences about pump standardization due to save time for engineers.
- 8) Experienced education, overseas maker's Japanese deputy and overseas maker's consultant.

## ● Main experiences

- 1) **Develop** : kinds of centrifugal pumps, canned motor pump, gear pump, high efficiency pump, pump standardization, pump performance test bench, high efficiency ejector, ejector test bench, patent proposal
- 2) **Troubleshoot** : solution of technical problems, countermeasures, troubles of high pressure pumps etc, technical judge of troubles
- 3) **Energy savings** : technical research of pump energy savings, judge of energy savings, text books of energy savings
- 4) **Train** : engineers and students on pump technology, pump design, API 610 train and design, ANSI B 73.1 train and design, API 676 train and design, giving seminars
- 5) **Sales support of overseas manufacturers** : overseas manufacturers' Japanese representative
- 6) **New business** : advice of new business plan, research of pump technology, advice of grant proposal
- 7) **Others** : inspector of exported rotating machines, site manager, book publish, papers to engineering newspaper, examination board of Institution of professional engineers, Japan

## ● Main experiences in Ebara corporation

- Development of pump efficiency improvement and development of various lubrication systems of bearing
- Development plan of canned motor pump for marketing research and the future
- Research and development of canned motor pump with magnetic bearings
- Development of low flow circulation pump for fuel cell      · International conference attendance
- Development and design of API pumps      · Cause investigation and measures of various troubles
- Plan, design and production of pump performance test device and high temperature test device
- Supervising of pump replace construction and install construction (overseas and domestic)
- Lecturer of technological seminar held in foreign countries and lecturer of overseas interns in Japan
- Quotation of pump for export, and negotiation with engineering companies on technical and price
- Investigation and guide on technology, manufacturing, and management in overseas for the joint venture

## ● Academic background and career

- Dec. 1, 1954 Born in Kamiiso, Hokkaido, Japan
- Mar. 1975 Graduated from Hakodate National College of Technology (Mechanical engineering)
- Apr. 1975 Joined Ebara corp. • Mar. 2007 Retired Ebara corp. in order to establishing Office
- Apr. 2007 Established Sototyama Consultant Office

## ● Membership of organizations

- Apr. 2012~ API610 WG • Mar. 2005~Sep. 2012 ISO13709/API610 JWG
- May 2005~ Institution of professional engineers, Japan (IPEJ)
- Oct. 2005~ Consultant engineers association
- May 2006~ Institution of professional engineers, Kanagawa-pref.
- Dec. 2006~Mar. 2014 Japan technology transfer association
- Apr. 2007~ Turbomachinery society of Japan
- Jul. 1997~ International association of Chigasaki • Nov. 2005~Jan. 2010 Chigasaki invention club

## ● Qualification

- 2005 Professional engineer (Mechanical) registered
- 2006 Professional engineer (Technical management) registered
- 2006 Qualified energy manager registered

## ● Papers and books

- Intelligible book of pump technologies (The Nikkan Kogyo Shimbun, 2016. 9. 30)
- Basic of pump technologies with pictures (The Nikkan Kogyo Shimbun, 2014. 11. 25)
- Pump selection and Trouble countermeasures (The Nikkan Kogyo Shimbun, 2014. 2. 26)
- Countermeasures against particles on manufacturing (Joint, Taiga shupan, December 2012)
- Pump technical problems and the outlook (The Nikkan Kogyo Shimbun, February 7, 2013、 July 12, 2012)
- A technique of mechanical energy-saving on pumps (IPEJ, 2010/02)
- Technical consulting handbook (Joint, Ohm, 2009/01)
- Countermeasures against particles on manufacturing (Joint, Nikkan Kogyo, 2008/08)
- Trend and outlook on refinery pumps of ISO 13709/API 610 (Turbo machinery, 2007/08)
- Report and outlook on ISO 13709/API 610 International meeting (2007/03)

## ● Patents

54 patents proposed on pump, motor, safety device and energy conservation, 15 registered so far.

## ● Lectures and seminars

- Centrifugal pump basics and trouble countermeasures (2017. 2. 23、 2017. 2. 9)
- Centrifugal pump basics, selection and trouble countermeasures (2015. 6. 19)
- Pump selection and trouble countermeasures (2015. 3. 19、 2014. 11. 17、 2013. 8. 30、 2012. 6. 15、 2009. 7. 8)
- Energy-savings on pumps and fans (2015. 2. 21、 2014. 5. 21、 2013. 11. 27)
- Pump Basic Design (2019. 10. 18、 2019. 1. 21、 2018. 11. 9、 2018. 2. 2、 2018. 1. 31、 2017. 11. 2、 2017. 1. 30、 2017. 1. 27、 2016. 11. 11、 2016. 1. 15、 2015. 9. 7、 2014. 10. 15、 2013. 10. 25、 2013. 3. 15)
- Pump Basic Design and its auxiliaries (2011. 7. 8)
- Pump Design and its auxiliaries (2009. 10. 22、 2008. 11. 14、 2007. 11. 14)
- A development of a small circulation pump using for a fuel cell (Institution of PE, Kanagawa 2007. 3. 3)

## ● Professional Engineer Japan (P. E. Jp)

Professional Engineer Japan (P. E. Jp) is the national qualification stipulated by the Professional Engineer Law.

A Professional Engineer is defined as an engineer engaged in the professional practice (except for cases where such practice is prohibited under other laws) of rendering services for science and technology in planning, research, design, analysis, testing, evaluation, and training in such work, which requires application of extensive scientific and technical expertise.

The Enforcement Regulation of the Professional Engineer Law specifies 21 technical disciplines, in each of which a Professional Engineers is qualified.

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Professional engineer (registered No. 56804)

Qualified energy manager (registered No. 3346)