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Systems Engineering Associates, Inc.

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Date of Birth October 4, 1953
Nationality Japan
Organization/title Systems Engineering Associates, Inc., President

Work Experience

2014 to present Research Associate
 The University of Tokyo Graduate School of Frontier Sciences, Dept. of Ocean Technology, Policy and Environment, Tokyo, Japan.
 Research on carbon dioxide capture and storage, and subsea engineering.

2007 to present Technical Advisor
 Advanced Construction Technology Center, Tokyo, Japan,
 Technology assessment and evaluation of new construction technology.

1997 to present. President
 Systems Engineering Associates, Inc., Tokyo, Japan.
 Consulting works for ocean engineering, e.g. offshore structure designs in cold and sea ice environment, offshore energy development, seabed resources.

1979-1997 Engineer
 Pacific Consultants Co., Ltd.
 - Structural design of railroads and subways, and port and harbor facilities.
 - Research on mechanical properties of ice and ice-material interaction.
 - Planning of flood plain management and analysis of fluid dynamics in river/ocean flow. Planning and design of port and harbor facilities.

Education and Research

2017, October Executive Program: Climate Change and Energy -Policymaking for the Long Term-
 Harvard Kennedy School, Cambridge, MA

1991 Doctor of Engineering
 Hokkaido University, Sapporo, Japan
 Doctor thesis: "Studies on factors influencing the ice forces on structures"

1987-1989 Visiting Researcher (CRREL and UAF Joint Program)
 U.S.Army Cold Regions Research and Engineering Laboratory (CRREL), Ice Engineering Research Branch, Hanover, New Hampshire, USA.
 Research on ice forces on structures.

1986-1989 Master of Science
 University of Alaska Fairbanks, Dept. of Arctic Engineering, Fairbanks, AK
 Master thesis: "Ice Forces on Flat, Vertical Indentors Pushed through Floating Ice Sheets"

1974-1979 Bachelor of Engineering
 Hokkaido University, Dept. of Civil Engineering, Sapporo, Japan

Award

- 2002 ISOPE2002 Best Paper Award, Co-author.
International Society of Offshore and Polar Engineers
Paper title "Ice Load Equation by Medium Scale Field Indentation Test Data,"
- 1984 Arthur Lubinski Outstanding Paper Award, Co-author.
American Society of Mechanical Engineers (ASME)
Offshore Technology Conference (OTC84)
Paper title "The Coefficients of Friction Between Sea Ice and Various Materials Used in Offshore Structures,"
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Qualifications

- 2003 Registered Consulting Engineer (PE, Professional Engineer in Japan)
Specialty: Construction Management
- 2003 Registered Consulting Engineer (PE, Professional Engineer in Japan)
Specialty: Port and Harbor Facilities
- 2002 Engineering Intern, State of Oregon, #66671EIT, USA
Specialty: Civil Engineering
- 1992 Registered Consulting Engineer (PE, Professional Engineer in Japan)
Specialty: Applied Science - Geophysics, Snow and Ice
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Teaching

- 2003 to present Visiting lecturer on Cold Region Engineering, Hokkaido University, Sapporo, Japan.
- 2005, June Visiting lecturer on Offshore Resources, Kanagawa Institute of Technology
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Committee Members

- 2011-present Secretary, American Society of Civil Engineers Japan Section.
- 2004-present ISO/TC67/SC7/WG8- International Organization for Standardization, Offshore Structures for Petroleum and Natural Gas Industries in Arctic Offshore Conditions.
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Membership

- Japan Society of Civil Engineers (JSCE)
- American Society of Civil Engineers (ASCE)
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Publications

- 2015 "Ship-based Carbon Dioxide Capture and Storage for Enhanced Oil Recovery," OTC25861-MS, Offshore Technology Conference, Houston, Texas, 4-7 May 2015.
- 2014 "Ice Load Estimation Methods for LNG Jetty Design in Various Ice-Structure Interactive Conditions," OTC24626, Arctic Technology Conference, Houston, Texas, 10-12 February 2014.
- 2012 "Numerical Prediction of Spilled Oil Behavior under Sea Ice Conditions: Modification of the 2011 Model," OTC23801, Arctic Technology Conference, Houston, Texas, 3-5 December 2012.
- 2012 "Ship-based CO₂ Injection into Subseabed Geological Formations using a Flexible Riser Pipe Pickup System," GHGT-11: 11th International

- Conference on Greenhouse Gas Control Technologies, Kyoto, Japan, 18-22 November 2012. Energy Procedia 37(2013)3176-3183, ELSEVIER.
- 2011 “Experimental Studies on Rare Metal Collection from Seawater,” International Offshore and Polar Engineering Conference (ISOPE2011), Hawaii, 19-24 June 2011.
- 2011 “Numerical Prediction of Spilled Oil Behavior in the Sea of Okhotsk Under Sea Ice Conditions,” OTC22123, Arctic Technology Conference, Houston, Texas, 7-9 February 2011.
- 2004 “Local Ice Pressure Distribution Acting on Offshore Structure.” 17th International Symposium on Ice. St.Petersburg, Russia.
- 2002 “Marine Data Processing for Marine Activities.” PACON 2002, Makuhari, Chiba, Japan.
- 2001 “Proposal for Formation of a Marine Information Technology Industry.” OCEANS 2001, Honolulu, Hawaii.

Almost one hundred papers to domestic and international conferences and journals on cold regions and ocean technology/engineering.
