# Jin S. (Soo) Chung 2014

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1982 2013

Elected First President (1999-2000) and Executive Director (1989–), ISOPE (The International Society of Offshore and Polar Engineers; IRS code 501 (c) (3); <a href="mailto:info@isope.org">info@isope.org</a> www.isope.org )
Technical Editor (1990–) International Journal of Offshore and Polar Engineering; <a href="mailto:editor@isope.org">editor@isope.org</a> Technical Editor (2014-). Journal of Ocean and Wind Energy

#### **Education:**

1969	PhD	Engineering Mechanics - Fluid Mechanics	University of Michigan, Ann Arbor	
1964	M.S.	Naval Architecture - Hydrodynamics	University of California, Berkeley	
1961	B.S.	Naval Architecture & Aeronautical Eng.	Seoul National University, Korea	
<b>PhD Thesis:</b> Laser Doppler Anemometer Measurements of Turbulence in Non-Newtonian Pipe Flows, <i>The</i>				
Physics of Fluids, Vol 15, No 4, pp 546-554, 1972.				

**Professional Societies:** Fellow ASME (1984-); Member: Tau Beta Pi, Sigma Xi, ISOPE, KSOE, JASNAOE and more

## **Special Training:**

- Reservoir Engineering School, **Esso** (Exxon) Production Research Co., Houston, 1972.
- On-Board Supervisory Training of Floating Drilling Operations, Esso Production Research Co., 1972.
- Technical Writing School, **Esso** Production Research Co., 1971.
- Kepner Trigoe Problem Analysis Program, Lockheed Missiles & Space Co, 1977

**Reports and Publications:** Author and Editors of more than 270 books and papers.

#### **Industries:**

**1980- Expert consultant to the industry.** Initiated and promoted many professional activities in emerging ocean science and technology.

1980-2000 Joined as full professor of engineering, Colorado School of Mines, Golden, Colorado
1973-80 Lockheed Missiles & Space Co., R&D Division – Hydrodynamics Department,
Sunnyvale, Calif. – staff engineer

- Engaged in special projects: developments of submarine, surface effect ship waterjet propulsion, space shuttle solid rocket booster recovery in the ocean, next-generation x-wing aircraft, wave statistics for the Atlantic, Pacific and Indian Oceans, riser design software, and oil spill recovery hardware of the Coast Guard.
- 1975-80 The leader of the Advanced (Commercial) Deep-Ocean Mining Technology Development Team, Ocean Minerals Co., Lockheed Missiles & Space Co. International consortium of Dutch Shell (Billiton), Amoco Oil, Bos Khalis, and Lockheed Consortium, Mountain View, California
  - Engaged in special proprietary deep-ocean mining project..

- A 6,000-meter-commercial *integrated* deep ocean mining systems and technology of ship-pipe-buffer-link-seafloor miner Developed the concept, modular design, component technology and integrated technology, and pioneered the integrated system control operation simulation, feasibility
- Supported the North Pacific Ocean test of full-scale integrated ocean mining system and subsystems with *Hughes Glomar Explorer* in 5,000-meter depth.

### 1969-73 Esso (Exxon) Production Research Co. – Offshore Division, Houston, TX

Member of the industry's first interdisciplinary offshore technology with floating drilling system
and design software development — Simulate motion and loads, drilling weather downtime and
created databank of the existing semisubmersibles and drill ships for the worldwide operations.
Drafted evaluation criteria of worldwide model-test tanks for Esso tests.

## 1970-71 Member, Exxon-USA Ocean Oil Spill Task Force

• Developed ocean oil-spill containment concept, system and hardware (patent) for Santa Barbara Channel, later adopted for the Gulf of Mexico and Gulf of Alaska.

# **David Taylor Model Basin (DTMB),** The Navy, Bethesda, Maryland

• Developed high-speed craft hull and wave resistance software

# 1961-62.1 Korea Electric Power Corp. (KEPCO), Seoul, Korea

first industry job as mechanical engineer at Seoul thermal power plant

#### **Professional Activities & Honor:**

2013-	Lead co-founder and technical editor of Journal of Ocean and Wind Energy, ISOPE Transactions
2013-2015	Honorary Chair Professor, School of Ocean Science and Technology, Korea Maritime and Ocean
	University, Busan, Korea

2012- Co-initiator, Tsunami and Safety Symposium

2008, 2009 Lead initiator of ISOPE Renewable Energy & Environment Symposium, Sloshing Dynamics and Design Symposium and Arctic Science and Technology Symposium.

**2007 Ultra Program** as the expert in ocean and Arctic invited by Korea Ministry of Science and Tech, Seoul and Jeju, 2007.

**2002– Jin S Chung Award & Lecture**, named after Jin S Chung

1998 Encarta Encyclopedia, CD-ROM: Authored Seafloor Mining (Deep-Ocean Mining)

1996– Chairman, Intl. Deep-Ocean Technology Symposium & Workshop, National Science Foundation

1995– Founder and Chairman, Ocean Mining Working Group and Ocean Mining Symposium, Tsukuba, Japan

1992 Neptune Award, the ISOPE's highest award

1990– Founder and Technical Editor, Intl. Journal of Offshore and Polar Engineering

1991 Founding Chairman and Editor, Annual Intl. Offshore and Polar Engineering Conference (Annually more than 1000 participants from some 50 countries)

1990 Lead co-founder of first European Offshore Mechanics Symposium, Trondheim, Norway

1990 Lead co-founder of first Pacific-Asia Offshore Mechanics Symposium, Seoul, Korea

**Member**, *EEZ Committee*, National Research Council, Academy of Science, Washington, DC

1987 Chairman, *Intl Ice Mechanics Workshop*, National Science Foundation

**1986-95 Chairman, Offshore Mechanics and Arctic Engineering Council** (registered 1986 in the State of Colorado, nonprofit, tax-exempt, IRS 501(c) (3))

1985-89 Founding Chairman, ASME Offshore Mechanics & Arctic Engineering Division

1985 Founded ASME Journal of. Offshore Mechanics & Arctic Engineering

Member of Program Committee, Offshore Technology Conference, Houston, TX
 1983 Amoco Foundation Outstanding Teaching Award at Colorado School of Mines

1981	Founder, chair and editor of International Symposium (renamed as Conference since	
	1988) on Offshore Mechanics & Arctic Engineering	
1981	UNDP Program – IMO consultant in Hydrodynamics at Ship Research Institute, Korea.	
1980	Introduced interdisciplinary "Offshore Mechanics" and "Arctic Engineering."	
1980-85	Technical Editor, ASME Transactions Journal Energy Resources Tech.	
1978	Eugene W. Jacobsen (Best Paper) Award of ASME Petroleum Division; the first recipient	
1967-69	Developed the first Laser Doppler Anemometer for Turbulence Measurement in	
	Non-Newtonian Fluids Flows, PhD thesis at University of Michigan at Ann Arbor	
1960-61	Designed and built with a classmate a hydrofoil boat, the first in Asia, while a college student.	
1980-	Invited speakers at numerous international conferences, research institutes, universities and companies.	

## Invited and keynote speaker at:

Shanghai Society of Applied Mechanics (Shanghai, 2014); World Ocean Forum (Busan, Korea, 2007, 2010), Korea Maritime Univ (2010), China National Offshore Oil Corp (Beijing, 2009), China National Petroleum Corp (Beijing, 2008), China University of Petroleum at Beijing (2006); First European-Pacific Congress (Vladivostok, 2003), Ultra-Deep Engineering Tech (Brest, France, 2002), University of Stavanger (Norway, 2000), Technical University Berlin (Germany, 2001), Exxon Research & Engineering (New Jersey, 1999), Ministry of Ocean and Fisheries (1996), Korea Association of Deep-Ocean Resources (Seoul, 1994), Russian Academy of Sciences (Moscow, 1990), Tsinghua Univ (Beijing, 1989), Oil & Natural Gas Commission (ONGC) and Engineers India (New Delhi, 1989), Kuwait Univ (1989), University of California at Santa Barbara (1988), Ministry-MITI - Japanese Manganese Nodule Consortium and NKK (Tokyo, 1987), Osaka University (Japan, 1986), Korea Inst of Machinery and Metal (1985), China State Education Commission (Dalian Univ of Tech and Shanghai Jiao Tong Univ, China, 1982),

and many other institutes and international conferences:

**1980- Consultants** to industries, research institutes, many government institutes including UNDP-IMO (Hydrodynamics), US DOE-NREL (Ocean energy and OTEC).

1980- Marquis Who's Who in the World, in America, in the West and more Gates Foundation *Who's Who Among Asian Americans* (1995 premier issue – ), Oil & Gas Journal cover photo, Pennwell, December 1982 Offshore cover photo, Pennwell, December 1988 and more.

Honorary professor (2006-), China University of Petroleum at Beijing

1981- Member of external academic committees for university tenure, promotion, doctoral thesis etc. at: Massachusetts Institute of Technology, Woods Hole Oceanographic Inst, University of Wisconsin at Madison, University of Edinburgh, Memorial University of Newfoundland

And more

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