

Hyung Tack Huh



President of the Korean Society of Oceanography 1991-93.

No one has contributed more widely and intensively to the marine and fisheries sciences than Hyung Tack Huh, at least in Korea and to some extent in Asia. His contributions to marine and fisheries communities were highlighted when he has served as Director of the Korea Ocean Research and Development Institute (KORDI) from 1981-1988.

I (Chang Ik Zhang) first met Dr. Huh in 1982 at KORDI where he was young Director of the institute in his early 40s. At that time I was a young scientist at the National Fisheries Research and Development Agency in Pusan. I was impressed with his active and ambitious character as director of the organization, and I wished I could work with him at KORDI in the future. This dream was realized in 1988, when he called me early one morning in Seattle (because of the time difference between Seoul and Seattle) to offer me a senior scientist position at KORDI, when I just finished my Ph.D. program at the University of Washington. Since then I have joined KORDI and worked together with him on various fields of ocean research such as ‘Cooperative Studies on Ocean Sciences among East Asian Nations’, ‘Yellow Sea Large Marine Ecosystem Research Project’ and so on. He has managed the works with truly splendid skills during his years as Director at KORDI.

Prior to joining KORDI, Dr. Huh held several positions in the U.S. after finishing his graduate works at the University of Wisconsin in Madison. He was Head of the Plankton Section at the Nalco Environmental Sciences, Inc. in Chicago, Illinois and a Research Scientist for the Battelle Memorial Institute in Columbus, Ohio. He was elected as a fellow of the Ohio Academy of Sciences while he was in Ohio.

Dr. Huh has held domestically several positions in professional societies and activities. He has been the President of the Korean Society of Oceanography (KSO),

and the Ichthyological Society of Korea, and President-elect for the Korean Society of Fisheries Resources. He was a founding member of the Korean Society of Oceanography and served as first Secretary-Treasurer for KSO. He has also been the Vice President for the Korean Fisheries Society and the Korean Aquaculture Society. He was the Editor-in-Chief for the Journal of the Korean National Commission for Antarctic Research in 1987 and served as Chairman for two terms during 1987-1991. Currently, Dr. Huh is Chairman of the Korean Oceanographic Commission which acts as National Committee for the Intergovernmental Oceanographic Commission (IOC).

Also, he has actively participated in the international marine science activities, especially with the IOC and PICES. He represented Korea in many intergovernmental and non-governmental conferences such as IOC, WESTPAC, SCAR, ATCM, IMO, UNEP, US-Korea Forum on Ocean Sciences and so on. He is the Vice-Chairman of WESTPAC, a Subcommission of IOC, concurrently serving as Vice-Chairman for PICES since 1995. He is also Vice President of the Pacific Congress on Marine Science and Technology (PACON).



Vice Chairman of WESTPAC (1996-99) with Dr. G. Kullenberg of IOC (center), Tokyo, 1996.



Chairmen of PACON 96 (from left, H.T. Huh, Dr. N. Saxena, Mr. Yan Hongmo, and Mr. J. Carey), Honolulu, 1996.



With Dr. Steeman-Nielsen in his laboratory in Copenhagen, Denmark, 1966.



Inspecting plankton samples, 1980.

His career as a marine biologist began as a junior scientist (planktologist) at the National Fisheries Research and Development Institute in Pusan, Korea in 1960. After working at the Korean National Commission for UNESCO as a program coordinator for marine science in early 1960s, he attended the UNESCO's Advanced Course in Marine Biology held in Denmark in 1966 where he studied under the supervision of well-known scientists such as Dr. Steeman-Nielsen and Dr. Gunnar Thorson. He went to Wisconsin from Denmark in 1967 where he obtained his degrees of M.S. in limnology and Ph.D. in biological oceanography from the University of Wisconsin-Madison.

With interests in the fields of marine biology/biological oceanography (ecology, bioenergetics and behavior of fish, secondary productivity, thermal ecology and aquaculture), he has published over 100 scientific papers and over 200 articles and authored/co-authored 7 books. Dr. Huh has contributed considerably in promoting Korea's marine science education at the high school and college levels by authoring two high school and two college text books in fish ecology and marine biology. Dr. Huh was also a lecturer at the Graduate School of Seoul National University and Kunkook University, and a guest professor at the Sungkyun-Kwan University in Seoul, Korea.

He pioneered aquaculture programs for the Pacific salmon, coho *Oncorhynchus kisutch* and masu *O.*



Touring mariculture farms on the southern coast of Korea with U.S. delegation including Drs. T. Smayda (URI), John Ryther (WHOI), and J. Mihursky (U. of Maryland), 1979.

mascu, and rainbow trout *O. mykiss* in Korea. Experimental studies by Dr. Huh and his group have led the commercialization of salmon and trout culture using net-pens in the sea for the first time in Korea.

Dr. Huh's achievements could also be recognized by many other contributions. Besides his leading role in founding the Korean Society of Oceanography, he contributed a great deal in bringing the Korea Ocean Research and Development Institute (KORDI) to the status of a major marine research institute by strengthening the facilities as well as supplementing man power.



Director of KORDI, 1981-1988.

During his tenure as Director of KORDI (1981-1988), he constructed the present campus in Ansan and tripled man power. He also engineered to build R/V Onnuri, one of Korea's first and most updated ocean going research vessels, and established an Antarctic Research Station (The King Sejong) on the King George Island in Antarctica. He initiated the Korea's deep seabed mining project (project leader) in the early 1980s which led Korea to join the Pioneer Investor Group (7 countries) for the Deep Seabed Mining in 1994 by acquiring a mining site (150,000 km² of seabed) in the Central Pacific Ocean authorized by the International Seabed Authority of the United Nations.

Dr. Huh has been actively involved in the governmental policy making activities in relation to fisheries, marine environmental protection, integrated coastal zone management, etc. He has been a member of the Advisory Committee for the several ministries of Korean Government such as the Ministries of Science and Technology, Maritime Affairs and Fisheries, Environment, Construction and Transportation, Education, Agriculture and Forestry, Internal Affairs, and many other public organizations such as Korea Electric & Power Co., Korean Association of Environmental Protection, Korean Federation of Fisheries, etc.

As a senior marine scientist, Dr. Huh has been playing a key role in promoting and coordinating regional and international cooperative programs in marine science. He has been the Korean project leader for the GEF's Yellow Sea Large Marine Ecosystems. He is responsible for the Korea-ASEAN Marine Biotechnology Program, and has been a national coordinator for the Canada-Korea Joint Workshops in Marine Science. In addition, he has played a key role in the development of scientific cooperation between Canada and Korea leading to signing of collaborative agreements between Canada's Department of Fisheries and Oceans and KORDI. He has served for many international conferences as honorary chairman/general co-

chair for PACON 93-98, organizer/advisor for the Coastal Ocean Space Utilization (COSU), Oceanology International, International Congress on History of Oceanography, and chairman for the Scientific Organizing Committee for the WESTPAC Symposium.



Delivering opening remarks for the 1st Korean Antarctic Research Station (at the podium), 1988.



With Prof. Arthur D. Hasler of Univ. of Wisconsin visiting mariculture farms in the southern coast of Korea, 1989.

Dr. Huh has organized a series of international conferences, symposiums and workshops, notably "the International Conference on East Asian Seas." The Conference, jointly organized with the East-West Center of the University of Hawaii, has been held annually for five years from 1987 through 1991 covering most of the East Asian seas, the Yellow Sea, East China Sea, East Sea (Japan Sea), and the Okhotsk Sea. The conference was to seek cooperative solutions to transnational issues in the region, and eventually lend an impetus to the establishment of several international programs such as the Tumen River Development Project, NOWPAP (Northwest Pacific Action Plan), the Northeast Asia Economic Forum, etc.



Revisit to the University of Wisconsin campus with family, 1989.

He is also the Project Manager for the APEC Workshop on Persistent Organic Pollutants (POPs) in the Marine Environment which is an annual event held in Korea since 1997.

Dr. Huh has been involved in several EIS projects for the EPA and Commonwealth Edison Co. of U.S.A. as project manager or chief investigator while in the United States. His experience through the EIS studies in the U.S.A. led him to become one of the key personnel in establishing the Korea's Environmental Criteria for Nuclear Power Plants in the late 70s.

Dr. Huh has been awarded at home and abroad with such recognitions as the Moran-Jang (2nd highest national medal), Mokryun-Jang (4th class national medal), Wolhae Research Award in Fisheries (Wolhae Foundation), Excellent R & D Award (Ministry of Science & Technology), Excellent Paper Award (KORDI), Achievement Award (The Honor Society of Phi Kappa Phi), Ocean Service Award (PACON International). He has been the Fellow of the Korean Academy of Science and Technology (KAST) since 1994. Dr. Huh has been listed in the Marquis (U.S.A.) *Who's Who in the World*, and International Biographical Center's (U.K.) *Men of Achievement* since 1985 Editions.

Dr. Huh is fond of art and collects the works of locally known artists, especially abstract paintings. He is also a lover of music, particularly classical and impressionistics of Mozart, Beethoven, Debussy, Ravel, etc.



In Praha, Czecho with wife Yunghae, 1997.

With his knowledge of music he sometimes gives tips to his wife, a music professor at the Kyunghee University in Seoul. She is the only Asian referee among five international judges for the Missouri Southern International Piano Competition which was held in Joplin, MO, U.S.A. in April, 1998. His three sons, two in college and the last one in high school, play instruments, clarinet, violin, cello, and piano as a hobby. They sometimes play in an ensemble at home. Dr. Huh is a devout Christian and serves as an elder at the Nam-Seoul Presbyterian Church.

Dr. Huh is expected to contribute further in bridging Korean marine sciences into the regional and international cooperative works in the coming years.



Dr. Zhang received his B.Sc. (1976) and M.Sc. (1981) in fisheries biology from the Jeju National University and the National Fisheries University at Pusan respectively. He got his Ph.D. in fisheries ecology from the University of Washington in 1987. Dr. Zhang is Professor and Chairman (since March 1, 1998) of the Department of Marine Production Management of the Pukyung National University, Pusan, Korea. His fields of interest are fisheries ecology, fish population dynamics and stock assessment, and fishery management. Dr. Zhang is the author of two books (1991 and 1994) in fisheries ecology and the winner of the Most Significant Paper Award from the American Fisheries Society in 1991 and the Best Paper Award from the Korean Cooperation of Science and Technology in 1993 and from the Korean Fisheries Society in 1994. He is deeply involved in PICES activities, at first as a member and since 1996 as Chairman of PICES Fishery Science Committee. Dr. Zhang also serves as a member of SCOR Working Group 105 on The Impact of World fisheries Harvests on the Stability and Diversity of Marine Ecosystems.