

## **SIN YOUNG KANG, PH.D**

DOB: 1956. 1. 31

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### **EXPERIENCE**

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#### **Korea Maritime & Ocean University, Dept. of Ocean Engineering**

*Emeritus Professor (2021.3-2024.2)*

*Professor (1987.9-2021.2)*

- Department Chairman (1989.9-1990.8, 1998.3-1999.1, 2009.3-2011.2)
- Assistant Dean of Engineering (1990.10-1992.9)
- Assistant Dean of Graduate School (1999.12-2002.8)
- Dean of Student Affairs (2004.3-2005.5)
- Dean of Academic Affairs (2005.7-2006.3)
- Lecture Topic: Underwater diving technology, Fluid dynamic, Engineering mechanics,

*NAVY Special Program (2009.3-2021.2)*

- Chairman of Underwater Diving Technology Department (2009.3-2015.2)
- Division Head of Ocean Military University(2015.3-2021.2)
- Lecture Topic: Underwater diving equipment

### **EDUCATION**

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#### **Yonsei University, Seoul Korea**

*Bachelor of Science in Mechanical Engineering (1973.3- 1981.8)*

#### **Florida Atlantic University, U.S.A**

*Master of Science in Ocean Engineering (1982.5-1984.4)*

*Thesis: Numerical Analysis of Liquid Impact on Moving Containers*

#### **Florida Atlantic University, U.S.A**

*Doctor of Philosophy in Ocean Engineering (1984.5-1987.4)*

*Dissertation: Mathematical Modelling of Craft Drift in an Ocean Environment*

### **UNDERWATER DIVING RELATED ACTIVITY**

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#### **Human Resources Development Service of Korea**

*Advisor of Commercial Diving Sector (2012.1- 2020.2)*

#### **ROK NAVY Salvage & Rescue Development Advisory Committee**

*Chairman (2011.7-2013.6)*

#### **ROK NAVY Underwater Diving Rescue Advisory Committee**

*Secretary (2016.3- 2020.2)*

#### **National Fire Agency Central Policy Review Committee**

*Advisor of Ocean Services (2012.6- 2020.6)*

#### **Korea Fisheries Resources Agency Scientific Diving Committee**

*Advisor (2013.3- 2015.2)*

## DIVING CERTIFICATION

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Date	Agency	Certification Level
1989.8	National Association of Underwater Instructors	Instructor
1990. 10	Professional Scuba Inspectors	Inspector
1992. 5	National Association of Underwater Instructors	Instructor Trainer
1996. 6	Int. Association of Nitrox & Technical Divers	EANx Instructor
1996. 6	Int. Association of Nitrox & Technical Divers	Blending Instructor
1999. 3	Professional Scuba Inspectors	Instructor
2006. 10	Int. Association of Nitrox & Technical Divers	Trimix Diver
2007. 11	Int. Association of Nitrox & Technical Divers	CCR Diver(Inspiration)
2009. 5	Int. Association of Nitrox & Technical Divers	RCCR Diver(MK6)
2009. 9	Int. Association of Nitrox & Technical Divers	Instructor Trainer
2010. 3	SEI Diving	Instructor Trainer
2014. 6	NASE Worldwide	Instructor Trainer

## PUBLICATIONS

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### Books

2021. 9, Tao of Technical Diver, IANTD Korea, 223p.
2020. 12, IANTD Divemaster & Dive supervisor, IANTD Korea, 116p.
2020. 5, Gas Blender Student Manual, PTRD Korea, 108p.
2020. 5, Nitrox Diver Manual, PTRD Korea, 68p.
2020. 4, PTRD Trainer Manual & Leadership, PTRD Korea, 160p.
2020. 4, PTRD Diver Training International Standard & Procedure Instructor Manual, PTRD Korea, 172p.
2020. 4, PTRD Rebreather Diving Manual, PTRD Korea, 30p.
2020. 4, Diving Physics, IANTD Korea, 120p.
2019. 11, IANTD Advanced Openwater Diver(2nd Ed.), IANTD Korea, 105p.
2019. 9, The Essentials, IANTD Korea, 109p.
2019. 6, The Tao of Cave Diving, IANTD Korea, 209p.
2019. 3, Enriched Air Nitrox Diver(7<sup>th</sup> Ed.), IANTD Korea, 102p.
2018. 8, IANTD Rescue Diver, IANTD Korea, 115p.
2018. 5, Technical & Overhead Environments Programs Standard & Procedure Manual, IANTD Korea, 189p.
2018. 4, Sport, Tek Lite Technical Overhead & Free Diver Instructor Trainer Program, IANTD Korea, 326p.
2018. 3, Free Diving Standards & Procedure Manual, IANTD Korea, 58p.
2018. 3, Diving Technology, 7th Ed., Chung Nam Office of Education, 286p.
2017. 9, NASE Cave Diving Manual (in Korean), NASE Korea, 154p.
2017. 7, IANTD Instructor Development Program (in Korean), IANTD Korea, 230p.
2017. 3, Diving Medical Technology (in Korean), IANTD Korea, 125p.
2017. 3, IANTD Exam (in Korean), IANTD Korea, 193p.
2017. 2, Sports Diving, Human Resources Development Service of Korea, 830p.
2017. 2, Commercial Diving, Human Resources Development Service of Korea, 880p.
2016. 11, Tek Light Manual (in Korean), IANTD Korea, 134p.
2016. 7, IANTD Standard & procedures Manual (in Korean), IANTD Korea, 437p.
2016. 3, NASE Instructor Training Manual (in Korean), NASE Korea, 147p.
2015. 12, Openwater Sidemount Diver (in Korean), IANTD Korea, 106p.
2015. 11, Advanced Wreck Diving (in Korean), IANTD Korea, 116p.
2015. 5, NASE Rescue Diver Manual (in Korean), NASE Korea, 102p.

2015. 3, NASE Divemaster Manual (in Korean), NASE Korea, 60p.
2014. 10, Recreational Instructor's Manual (in Korean), IANTD Korea, 116p.
2014. 10, NASE Nitrox Diver Manual (in Korean), NASE Korea, 112p.
2014. 4, NASE Advanced Open Water Diver (in Korean), NASE Korea, 116p.
2014. 3, Diving Technology, 6th Ed., Chung Nam Office of Education, 250p.
2014. 3, NASE Instructor Manual (in Korean), NASE Korea, 166p.
2013. 9, NASE Openwater Diver Manual (in Korean), NASE Korea, 136p.
2013. 7, Technical Diver Encyclopedia (in Korean), IANTD Korea, 270p.
2012. 12, Dive Master (in Korean), IANTD Korea, 100p.
2012. 12, Rescue Diver (in Korean), IANTD Korea, 100p.
2012. 11, Gas Blender (in Korean), IANTD Korea, 100p.
2012. 3, NAUI Leadership & Instructor Course (in Korean), NAUI, 804p.
2011. 9, Facility Manual (in Korean), IANTD, 111p.
2011. 9, Public Safety Diver (in Korean), IANTD, 111p.
2011. 9, Advanced EANx Diver (in Korean), IANTD, 110p.
2011. 9, Advanced Openwater Diver (in Korean), IANTD, 105p.
2011. 3, NAUI Leadership & Instructions (in Korean), NAUI, 291p.
2010. 11, Scuba Diving (in Korean) 4th Ed., Scuba Educators International, 236p.
2010. 3, NAUI First Aid (in Korean), NAUI, 177p.
2010. 3, Tek Closed Circuit Rebreather (in Korean), IANTD Korea, 103p.
2009. 8, Deep Diver (in Korean), IANTD Korea, 110p.
2009. 8, EANx Diver Instructor Manual (in Korean), IANTD Korea, 124p.
2009. 8, Nitrox Diver (in Korean), IANTD Korea, 100p.
2009. 8, Deep Diver (in Korean), IANTD Korea, 110p.
2009. 4, Gas Blending (in Korean), IANTD Korea, 140p.
2008. 9, IANTD Sport Diver (in Korean), IANTD Korea, 109p.
2008. 3, NAUI Master Scuba Diver (in Korean), NAUI, 230p.
2008. 3, NAUI Rescue Diver (in Korean), NAUI, 150p.
2007. 3, NAUI Nitrox Diver (in Korean), NAUI, 103p.
2006. 3, NAUI Advanced Scuba Diver (in Korean), NAUI, 105p.
2006. 3, NAUI Scuba Diver (in Korean), NAUI, 233p.
2005. 3, NAUI Standard & Policy Manual (in Korean), NAUI, 233p.
2004. 12, Scuba Diver Instructor Guide (in Korean), NAUI, 533p.
2004. 9, NAUI Scuba Diver (in Korean), NAUI, 220p.
2003. 12, Sports Diving, Human Resources Development Service of Korea, 233p.
2003. 3, Diving Technology, 1st Ed., Korea Ministry of Education, 257p.

### **Journal & Report**

2019. 4, Risk Analysis of alcohol consumption during underwater activity using the risk assessment and analysis method, Journal of Korean Society of Marine Environment & Safety, Vol. 25, No. 2, pp159-168.
2019. 3, A comparative study between the national technical qualification and the national defense qualification in underwater diving, Journal of Korean Society of Marine Engineering, Vol. 43, No.13 pp. 212-219.
2018. 12, understanding the Woman Diver in Jeju
2018. 5, Development of an automated system for hyperbaric chambers, Journal of Korean Society of Marine Engineering, Vol. 42, No.14pp.318-334.
2018. 3, Diving Technology, Chungnam Provincial Office of Education, 286p.
2017. 12, Classification rule of diver's underwater work, Korea Fisheries Resources Agency, 75p.
2017. 8, The effect of cold water diving on the human vital signs and coldness preparation, JFMSE, 29(4), pp.1063~1071.
2016. 9, Analysis of the commercial diving national qualification system for the introduction of a diving supervisor, Journal of Korean Society of Marine Engineering, Vol. 40, No.1, pp. 655-662.

2016. 3, Development of underwater diver wearable diving equipment & supporting system, Dept. of Defense, Center for Civil Military Technology, Technical Report, 114p.
2015. 12, A case study of Nitrox usage in diving operation of the Busan-Geoje fixed link immersed tunnel, Journal of Korean Ocean Environment & Safety Association, Vol. 21, No. 6, pp. 790-797.
2015. 8, A Study on the introduction and application plan of the mobile saturation diving system for ROK Navy salvage operations, Journal of Korean Ocean Environment & Safety Association, Vol. 21, No. 4, pp. 389-396.
2014. 8, A proposition on reasonable termination procedure in remaining-oil recovery work from a sunken tanker in Korean territory, Journal of Navigation & Port Engineering, Vol. 38, No. 4, pp. 379-384.
2013. 11, A study on the improvement of ROK Navy salvage and rescue activity using technical diving technique, The Korean Society of Marine Engineering, Vol. 37, No. 8, pp. 575-581.
2012. 10, A study on Korean salvage competency analysis and development plan, Journal of the Korean Society of Marine Engineering, Vol. 35, No. 6, pp. 150-154.
2011. 10, "A study on the necessity of Korean standard and code of safety for diving system", Journal of the Korean Society of Marine Engineering, Vol. 35, No. 6, pp. 150-154.
2011. 2, A study on the necessity of introduction of scientific diver certification system in Korea, Journal of Korean Society of Marine Engineering, Vol. 35, No. 1, pp.118-125.
2010. 7, A study on the diving standards for underwater work in hostile environment, The Journal of Korean Society of Marine Engineering, Vol. 34, No. 5, pp. 735-742.
2008. 3, "A study on the scuba certification and status of leisure diving in Southeast Asia countries, Journal of Navigation & Port Engineering, Vol. 32, No. 1, pp. 109-114.
2006. 2, "A study on diving safety procedures based on the reports of diving casualties", Journal of Navigation & Port Engineering, Vol. 30, No. 1, pp. 109-114.