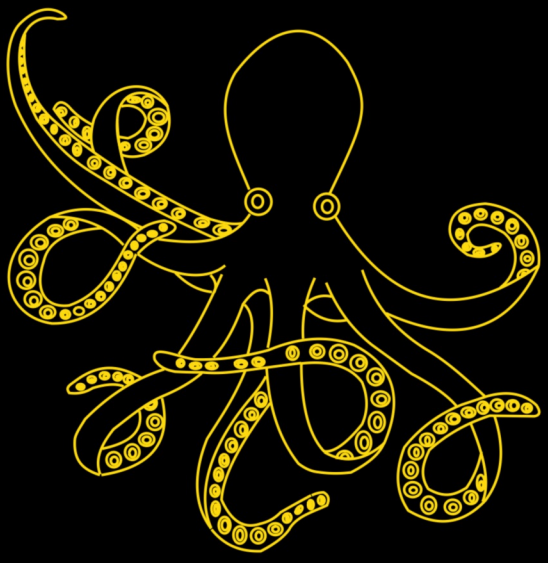


Diving & ROV specialists

Index for document research:

Technical documents regarding diving systems

November 2025

Page left blank intentionally

Diving & ROV Specialists
52/2 moo 3 tambon Tarpo 65000 Phitsanulock - Thailand
Tel: +66 857 277 123 - E mail: info@ccoltd.co.th

Purpose

This document lists the ***"Technical documents regarding diving systems"*** archived in the relevant section of the "Diving and ROV Specialists" website database.
Its purpose is to serve as a supplementary resource for research to the chronological list and search engine capabilities. For this reason, the various documents are categorized under the following sub-sections:

- Guidelines
- Rules and acts
- Studies

Categorizations will be refined over time. However, it is impractical to provide search engines and classifications that fully reflect researchers' preferences. Therefore, it is hoped that these three search methods will enable you to find the documents you seek.

Unlike the website's chronological index, this document does not include descriptions of the content of the various papers. However, the chronological classification number, authors' names, and publication dates are available, allowing you to locate them in the chronological lists where the descriptions and download links are provided.

This list was published on 1 September 2024. Please note that new documents added for this edition of the website are listed for each main section on the home page of the website.

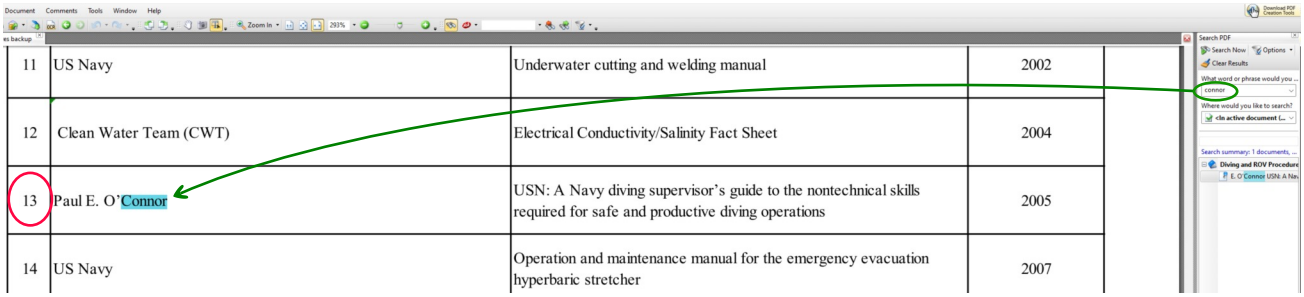
Important note:

This document is in PDF (Portable Document Format), so it can be downloaded and used independently of the website. It is also worth noting that some PDF readers come with a built-in search engine. This feature allows users to locate specific documents by entering relevant keywords, making document retrieval more efficient and convenient. It is, therefore, possible to find the desired document by browsing the list or by using the aforementioned search engine. Among the many free PDF readers available on the Internet, the four listed below include the aforementioned search engine:

- WPS Office (https://www.wps.com/) - works on Windows, Mac OS, and Linux
- PDF X Change Viewer (https://pdf-xchange.eu/pdf-xchange-editor/index.htm) - Works on Windows and Mac OS.
- Foxit Reader (https://www.foxit.com/pdf-reader/) - Works on Windows, Linux , and Mac OS
- Adobe Acrobat Reader (https://get.adobe.com/reader/) - Works on Windows and Mac Os.

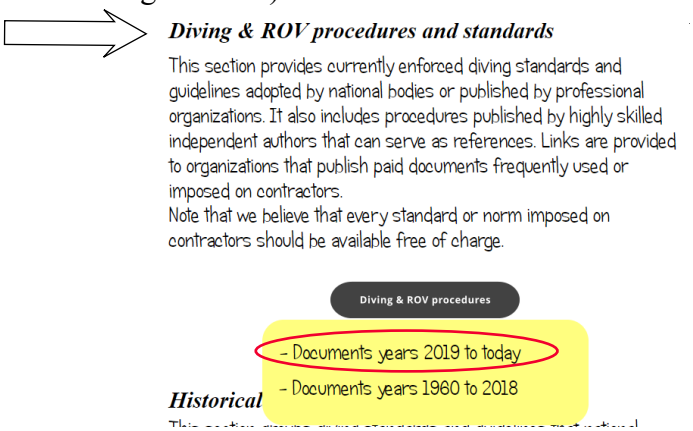
To locate a document within the chronological presentation of the database:

1. Follow the list and select the desired document, or use the search function of the PDF software by entering the keyword in the dedicated field. In this example, the author's name (Paul E. O'Connor) has been used.

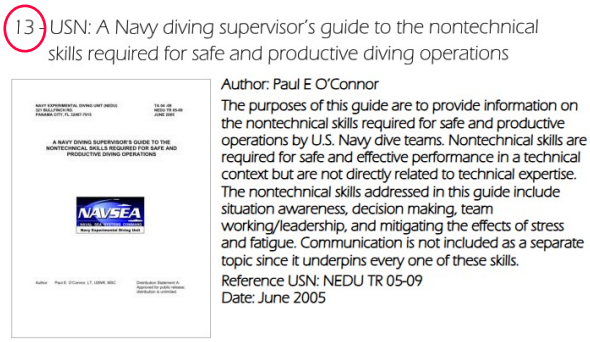


11	US Navy	Underwater cutting and welding manual	2002
12	Clean Water Team (CWT)	Electrical Conductivity/Salinity Fact Sheet	2004
13	Paul E. O'Connor	USN: A Navy diving supervisor's guide to the nontechnical skills required for safe and productive diving operations	2005
14	US Navy	Operation and maintenance manual for the emergency evacuation hyperbaric stretcher	2007

2. Select the reference number (highlighted in red) and the year of publication (2005 in this example).
3. On the website, open the corresponding section and year of publication in the database (accessible via "Documents" in the navigation bar).

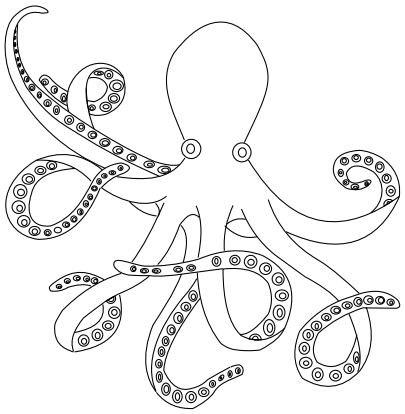


4. Scroll down to find the corresponding number, title, and author's name in the chronological list. Click on the picture or the description, and enjoy.



Page left blank intentionally

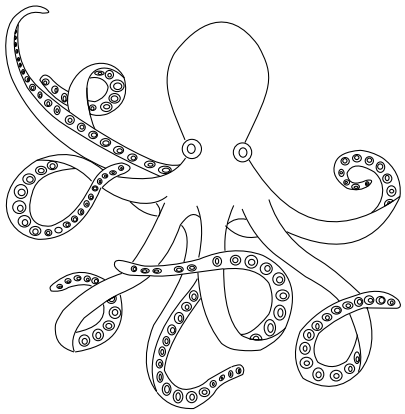
Guidelines



Nb	Authors	Title	Year publication
		1970 - 2016	
3	USN	Atmosphere contamination following repainting of a human hyperbaric chamber complex	1990
4	R Y Nishi	Proceedings of the DCIEM Diver Thermal Protection Workshop 31 Jan - 2 Feb 1989	1992-01
9	Ting C. Chou, Anthony Fiedorowicz	Oxygen Compatibility of Polymers Including TFE-Teflon, KeI-F 81, Vespel SP-21, Viton A, Viton A-500, Fluorel, Neoprene, EPDM, Buna-N, and Nylon 6,6	1997
10	Navsea	Navsea - Fly away dive system (FADS) III - air system 11-usn-fly-away-dive-system-3	1998-09
11	Thomas L. Reynolds, Thor I. Eklund, & Gregory A. Haack	NASA - Onboard Inert Gas Generation System/Onboard Oxygen Gas Generation System (OBIGGS/OBOGS) Study	2001
12	Timothy L. Ward	Supported Dense Ceramic Membranes for Oxygen Separation	2003
13	Valerie Flook	Development of the ANALOX Hyper-Gas Diving Bell Monitor	2003
15	NAVSEA	NAVSEA - Applied engineering principles manual	2003
16	USN	Evaluation of a diver cooling system for use with personal protective equipment in contaminated water diving	2004
17	UHMS	Hyperbaric Facility Design Guidelines	2004
20	USN	US Navy diving umbilical (UBA MK 20 & Mk 21)	2005
29	Mircea Horia Tierean, & Liana sanda Baltes	Design of Valves Used in Reciprocating Compressors	2009
30	David B. Kynor, & William E. Audette	Diver health monitoring system	2009
32	Naval Experimental Diving Unit (NEDU)	Saturation Fly-Away Diving System (SAT FADS) Manned Testing underway at Naval Experimental Diving Unit (NEDU) in Panama City, Florida.	2010-11
36	Kevin R Ward, Gary S Huvard, Mark McHugh, Rajender R Mallepally, & Richard Imbruce	Chemical Oxygen Generation	2013
37	Cunningham, S., Burke, A., & Kelly, G	CFD Modeling of Breakthrough in Closed Circuit Rebreather Scrubbers	1995
39	Hanna Kierzkwska-Pawlak, & Andrzej Chacuk	Pressure swing absorption of carbon dioxide in dmepeg solutions	2014
41	RINI technologies	Diver Heating by RINI technologies	2014-06
43	NAVSEA	Application procedure of formula 150 primer & 152 topcoat wite coatings on portable or afloat recompression chamber systems	2014
		2017 - Now	
6	Stephen Butler	Safety update: high pressure cylinder inspection and testing	2017
15	Lei Shao, Guoliang Xie, Cheng Zhang, Xiao Liu, & 3 scientists	Combustion of Metals in Oxygen-Enriched Atmospheres	2017

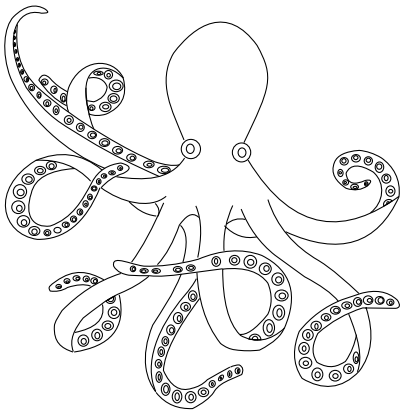
17	Nicusor Chiripici, Amil Avram, & Laurentiu Mocanu	Diving protection against nuclear contaminants	2020
19	V Golubovic-Bugarski, M Todic, S Petkovic and G Globocki-Lakic	The requirements for the design and construction of gas cylinders aimed for transportation of a compressed and liquefied gases	2020-05
27	Y Yasemin	Preparation of copper sulfate loaded membrane and removal of hydrogen sulphide.	2019
35	Jinming Tian, Yue Zeng, Linhai Ji, Huimin Zhu, and Zu Guo	Control Method of Cold and Hot Shock Test of Sensors in Medium	2023-07
38	Arnaud Druelle, Lucille Daubresse, Jean U Mullot, Hélène Streit, & Pierre Louge	Hypoxic loss of consciousness in air diving: Two cases of mixtures made hypoxic by oxidation of the scuba diving cylinder	2023-12

Rules and acts



Nb	Authors	Title	Year publication
		1970 - 2016	
10	Navsea	Navsea - Fly away dive system (FADS) III - air system 11-usn-fly-away-dive-system-3	1998-09
18	USN	Standard Navy double lock recompression chamber system	2004
21	ASTM	ASTM G94: Standard Guide for Evaluating Metals for Oxygen Service	2005
22	ASTM	ASTM G88: Standard Guide for Designing Systems for Oxygen Service	2005
24	USN	US Navy general specifications for the design, construction, and repair of diving and hyperbaric equipment.	2006
25	ASTM	ASTM G63: Standard Guide for Evaluating Nonmetallic Materials for Oxygen Service	2007
28	ASTM	ASTM G128: Standard Guide for Control of Hazards and Risks in Oxygen Enriched Systems	2008
40	ABS	Rules for building and classing underwater vehicles, systems and hyperbaric facilities - ed. 2014	2014
43	NAVSEA	Application procedure of formula 150 primer & 152 topcoat wite coatings on portable or afloat recompression chamber systems	2014
46	US Navy	US Navy unmanned test methods and performance limits for underwater breathing apparatus	2015
49	Bureau Veritas	Rules for the Classification of Diving Systems	2016
		2017 - Now	
3	DNV	Rules for classification - offshore units - Diving systems	2017
7	DNV	offshore containers	2017
9	ABS	Guide for certification of offshore containers	2017
12	Lloyd's Register	Rules and Regulations for the Construction & Classification of Submersibles & Diving Systems	2019
16	ABS	ABS - Offshore containers	2020
20	ABS	Rules for building and classing underwater vehicles, systems and hyperbaric facilities - ed. 2020	2020
30	Ryszard Kłos	Designing Diving Technology Part 1 - Decompression requirements	2022-10

Studies



Nb	Authors	Title	Year publication
		1970 - 2016	
1	US Navy	Manned evaluation of the MK14 closed circuit saturation diving system	1978-09
2	Michael J. Tipton & Frank St.C. Golden	The influence of regional insulation on the initial responses to cold immersion	1988-01
4	R Y Nishi	Proceedings of the DCIEM Diver Thermal Protection Workshop 31 Jan - 2 Feb 1989	1992-01
5	M. J. Tipton	The concept of an 'Integrated Survival System' for protection against the responses associated with immersion in cold water	1993-04
6	KL Russel	Evaluation of the KIN and DUI passive thermal survival systems	1993-04
7	Jim G Mastro, Neal W. Pollock	Sherwood Maximus regulator temperature and performance during Antarctic diving	1995-03
8	Eftedal O., Mohammadi R, Rouhani M, Torp H., & Brubakk A.O.	Computer real time detection of intravascular bubbles	1995
9	Ting C. Chou, Anthony Fiedorowicz	Oxygen Compatibility of Polymers Including TFE-Teflon, KeI-F 81, Vespel SP-21, Viton A, Viton A-500, Fluorel, Neoprene, EPDM, Buna-N,	1997
11	Thomas L. Reynolds, Thor I. Eklund, & Gregory A. Haack	and Nylon 6,6 NASA - Onboard Inert Gas Generation System/Onboard Oxygen Gas Generation System (OBIGGS/OBOGS) Study	2001
12	Timothy L. Ward	Supported Dense Ceramic Membranes for Oxygen Separation	2003
14	USN	Lightweight dive system MK 3 Mod 0	2003
18	USN	Standard Navy double lock recompression chamber system	2004
19	USN	Limited unmanned evaluation of the divex SLS MK4 backpack at sea level and 1000 fsw	2005
23	Justin Brady, Travis Spain, & Brent Shambaugh	Membrane Separation of Air to Produce Oxygen	2006
26	Sean Bishop, Keith Duncan, Helena Hagelin-Weaver, Luke Neal, & 3 scienntists	Oxygen Generation from Carbon Dioxide for Advanced Life Support	2003
27	Ryszard Kłos	Classification of the underwater diving equipment	2008-01
30	David B. Kynor, & William E. Audette	Diver health monitoring system	2009
31	Ding-Yu Fei, Xiaoming Zhao, Cosmin Boanca, Esther Hughes, Ou Bai, Ronald Merrell, Azhar Rafiq	A biomedical sensor system for real-time monitoring of astronauts' physiological parameters during extra-vehicular activities	2010-05
33	A. Afaneh, S. Alzebda, V. Ivchenko, & A. N. Kalashnikov	Ultrasonic Measurements of Temperature in Aqueous Solutions: Why and How	2011-02
34	Ryszard Kłos	Hyperbaric swimming simulator	2013-02
35	Jason Porter, C. Robert Gibson, and Samuel Strauss	Determining spherical lens correction for astronaut training Underwater	2013-05
36	Kevin R Ward, Gary S Huvard, Mark McHugh, Rajender R Mallepally, & Richard Imbruce	Chemical Oxygen Generation	2013

37	Cunningham, S., Burke, A., & Kelly, G	CFD Modeling of Breakthrough in Closed Circuit Rebreather Scrubbers	1995
38	Martin DJ Sayer, Elaine Azzopardi and Arne Sieber	Decompression management by 43 models of dive computer: single square-wave exposures to between 15 and 50 metres' depth	2014-01
39	Hanna Kierzkwska-Pawlak, & Andrzej Chacuk	Pressure swing absorption of carbon dioxide in dmepeg solutions	2014
42	T. Vu Quoc, H. Nguyen Dac, T. Pham Quoc, D. Nguyen Dinh, & T. Chu Duc	A printed circuit board capacitive sensor for air bubble inside fluidic flow detection	2014
44	Martin DJ Sayer, Elaine Azzopardi, & Arne Sieber	Decompression management by 43 models of dive computer: single square-wave exposures to between 15 and 50 metres' depth.	2014-12
45	USN	The history and implications of design standards for underwater breathing apparatus - 1945 to 2015	2015
46	US Navy	US Navy unmanned test methods and performance limits for underwater breathing apparatus	2015
47	Jiang Dongsheng, Bu Xueqin, Sun Bing, Lin Guiping, & 3 other scientists	Experimental study on ceramic membrane technology for onboard oxygen generation	2016
48	Martin DJ Sayer, Elaine Azzopardi, and Arne Sieber	User settings on dive computers: reliability in aiding conservative Diving.	2016-06
50	Thomas C, Blakeman, Dario Rodriquez, & TSgt Tyler J. Britton	Evaluation of Oxygen Concentrators and Chemical Oxygen Generators at Altitude and Temperature Extremes	2016
		2017 - Now	
1	John Graf	Chlorate Oxygen Generator (Oxygen Candle) Review of the History of Candle Development	2017
2	Asterios Kosmaras, Dimitrios Tzetzis, & Panagiotis Kyratsis	Finite element analysis and experimental validation of a novel oxygen pressure regulator	2017
4	Micheal Wolf, & Petr Eret	A study of reciprocating compressor valve dynamics	2017
5	Andreas Schuster, Olivier Castagna, Bruno Schmid, Tobias Cibis, and Arne Sieber	Underwater monitoring system for body temperature and ECG recordings	2017
6	Stephen Butler	Safety update: high pressure cylinder inspection and testing	2017
8	Jess M. Waller, Jon P. Haas, & Harold D Beeson	Polymer-oxygen compatibility testing effects of oxygen aging on ignition and combution properties	2017
10	Salih Murat Egi, Pierre-Yves Cousteau, Massimo Pieri, Carlo Cerrano, & 2 scientists	Designing a Diving Protocol for Thermocline Identification Using Dive Computers in Marine Citizen Science.	2018
11	Ryszard Klos	Modelling of the Nnormobaric and Hyperbaric Facilities Ventilation	2019
13	Richard Viking Lundell, Tomi Wuorimaa, Anne Räisänen-Sokolowski, Johnny KM Sundholm, Hannu Rintamäki, Sirkka Rissanen, Kai Parkkola	Comparison of argon and air as thermal insulating gases in drysuit dives during military Arctic diving equipment development tests	2019-07
14	Miraç MEMİŞOĞLU, amer ÖZYİĞİT, Seçil ŞATIR, & Salih Murat EGİ	Development of a wireless pressure sensor module to convert the mobile phones into dive computers.	2019
15	Lei Shao, Guoliang Xie, Cheng Zhang, Xiao Liu, & 3 scientists	Combustion of Metals in Oxygen-Enriched Atmospheres	2017
17	Nicusor Chiripici, Amil Avram, & Laurentiu Mocanu	Diving protection against nuclear contaminants	2020
18	Zbigniew Talaśka	Loss of Technical and Functional Properties of Elements of Diving Equipment whilst in use	2020-04

21	Bartłomiej Rogalewicz, Agnieszka Czylkowska, Piotr Anielak, and Paweł Samulkiewicz	Investigation and Possibilities of Reuse of Carbon Dioxide Absorbent Used in Anesthesiology	2020-11
22	Anas Obeidat, Thomas Andreas, Stéphane P.A. Bordas, & Andreas Zilian	Simulation of gas-dynamic, pressure surges and adiabatic compression phenomena in geometrically complex respirator oxygen valves.	2021
23	Stanisław Skrzyński	Research on Saturation Diving in Poland and Its Implementation. Part I A. General Characteristics of Saturation Diving Research in Poland. Pioneer Times: 1967-1985	2021-06
24	Karl E. Huggins	Dive Computer Considerations	2021
25	Tye Langston, Shane Singh, and Jeffrey Hunt	Noise characteristics of the Kirby Morgan 37 surface-supplied diving helmet under simulated diving conditions	2021-12
26	Coda Octopus	Diver Augmented Vision Display (DAVD) Overview	2021-12
27	Y Yasemin	Preparation of copper sulfate loaded membrane and removal of hydrogen sulphide.	2019
28	Stanisław Skrzyński	Research on Saturation Diving in Poland and Its Implementation. Part I B. General Characteristics of Saturation Diving Research in Poland. Pioneer Times: 1967-1985	2021-06
29	Stanisław Skrzyński	Studies on Saturation Diving in Poland and Practical Application of Their Findings. Part 2A. Developing a Polish System of Saturation Diving in the 1980s and 1990s	2022-03
30	Ryszard Kłos	Designing Diving Technology Part 1 - Decompression requirements	2022-10
31	Francesca Drago, Paolo Fedeli, Angelo Cavaliere, Andrea Cammi & 5 other scientists	Development of a Membrane Module Prototype for Oxygen Separation in Industrial Applications	2022-12
32	Stanisław Skrzyński	Polish Studies on Saturation Diving and Practical Application of Their Findings. Part III: Technical and Organizational Issues of the Implementation of Saturation Diving in Poland from the 1990s Onwards. Part 1	2023-01
33	Stanisław Skrzyński	Polish Studies on Saturation Diving and Practical Application of Their Findings. Part III: Technical and Organizational Issues of the Implementation of Saturation Diving in Poland from the 1990s Onwards. Part 2	2023-03
34	Lyubisa Matity, Francois Burman, Jacek Kot, Joseph Caruana	Effectiveness of hyperbaric chamber ventilation	2023-06
35	Jinming Tian, Yue Zeng, Linhai Ji, Huimin Zhu, and Zu Guo	Control Method of Cold and Hot Shock Test of Sensors in Medium	2023-07
36	W. Hidajatullah Maksoed	“Valuesale” of Helium Extraction & On-Purpose Propylene Processing from Natural Gas	2023-08
37	Feng Yuan, Yunjiang Yu, Yuekai Li, Yanxiong Xiang, and Changwei Zou	Design and Corrosion Resistance Performance of Nano-Multilayer Coatings for the Protection of Breathing Gas Cylinders Used in Diving	2023-10
38	Arnaud Druelle, Lucille Daubresse, Jean U Mullot, Hélène Streit, & Pierre Louge	Hypoxic loss of consciousness in air diving: Two cases of mixtures made hypoxic by oxidation of the scuba diving cylinder	2023-12
39	J. Sofia Bobby, Bharath S, Madhankumar C, Sudharsanam K, and Ummathullah U	Affordable Oxygen Concentrator with PSA Technology	2025-01
40	Jawad Mirza, Firdos Kanwal, Umair Ahmad Salaria, Salman Ghafoor, Imran Aziz, Ahmad Atieh, Ahmad Almogren, Anwar Ul Haq, and Benish Kanwal	Underwater temperature and pressure monitoring for deep-sea SCUBA divers using optical techniques	2024-07
41	Feng Yuan, Yunjiang Yu, Yuekai Li, Yanxiong Xiang, and Changwei Zou	Design and Corrosion Resistance Performance of Nano-Multilayer Coatings for the Protection of Breathing Gas Cylinders Used in Diving	2024-11
42	Ijabika Sardarova, Abdulaga Gurbanov, and Nazim Huseynov	Investigation of difficulties arising in the preparation of natural and indirect gases for transportation	2025-01
43	Ceyong Wang, Lezhi Ou, Wenbing Wu, Chenghui Tan, Yi Ding and Jinxing Zou	Measurement of electromagnetic transients in high voltage substations based on wireless transmission technique under strong electromagnetic interference.	2025-01

44	Yonghong Chen, Shibing Zhang, and Dongmei Li	Helium Speech Recognition Method Based on Spectrogram with Deep Learning	2025-05
45	Adam Swanger, David Creech, Casimir Van Doorne, and Andrew Kelly	Guarded Hot Cylinder Apparatus for Characterization of Thermal Insulation Systems and Materials at Liquid Hydrogen Temperatures	2025-05

Diving & ROV Specialists

52/2 moo 3 tambon Tarpo 65000 Phitsanulock - Thailand