

# **DOWAS NEWS**

**2022**

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**海洋深層水利用学会**

**The 26<sup>th</sup> DOWAS National Convention  
Deep Ocean Water 2022 Convention  
Convention Announcement**

**DOWAS National Convention Research Presentation Planning Committee Chair  
SHIMIZU Katsunori**

In order to prevent the spread of COVID-19, as last year, the 26<sup>th</sup> DOWAS National Convention will be held online.

Therefore, each member will be able to participate from their own computer. We will provide you with the access method and password in advance. Please register using the form on the DOWAS homepage (<http://www.dowas.net/>) as in the past.

**Details**

1. **Date : Wednesday October 26, 2022 13 : 15~17 : 00**

**※Please note presentations (including Q&A) to 10 minutes.**

**※Please note, the program and time may be subject to change. Check the DOWAS HP for details and the latest information.**

2. **Fee : Free**

3. **Registration for Participation or Research Presentation :**

Participants and presenters are requested to register for the conference by filling out the registration form. Please note the following points for registration.

**Registration :** Regardless of whether you wish to present, please register by filling out the requested information in the “[1] Application for Participation in the 2022 Annual Convention” field of the application form as in years past.

**Presentation Application :** If you wish to make a general research presentation please apply by filling in “[2] Research Application” on the registration form (as in the past).

**Deadlines :**

<b>Convention Registration</b>	<b>October 20, 2022</b>
<b>Research Presentation</b>	<b>August 31, 2022</b>
<b>Abstract Submission</b>	<b>September, 15, 2022 (Final)</b>
<b><u>Presentation Video</u></b>	<b><u>Not Required</u></b> (real-time presentation)

**Presentation Method : Online real-time presentation**

**Special Lecture :** This year we are accepting special presentations from the “Education Promotion Committee” (30 minute length).

**Other :** Each presentation will be 10 minutes (including questions) x 20 presentations.

**※The question and answer period may change depending on the number of presentations. Please check the website for details.**

    • Abstracts must be submitted by email to Mr. Shimizu at the Secretariat by the designated date. After a brief peer review, abstracts will be published in the society journal.

    • Presentation time is 10 minutes. You may use all of your time for presentation or reserve some for

questions. If the audience has questions we plan to respond via email at a later date.

- The number of presentations will be limited to 20. We will accept applications on a first-come, first-served basis, so please apply as soon as possible.
- Presentation slots are limited to members only.
- For more information, please contact :

Secretariat : Shimizu CO. Engineering Division, New Energy Engineering Department,  
SHIMIZU Katsunori  
16-1 Kyobashi, 2 Chome, Chuo-ku, Tokyo 〒104-8370  
Phone 03-3561-4327、FAX 03-3561-8675  
Email [katsunori.shimizu@shimz.co.jp](mailto:katsunori.shimizu@shimz.co.jp)

#### 4. Preparation and Submission of Abstracts (same as before)

- Abstracts should be in English or Japanese on one A4 page.
- Abstracts will be used for the preparation of proceedings so please send in an electronic format (PDF files strictly prohibited). The file will be subject to a brief peer review to correct errors and emissions (see sample).
- Please use A4 size paper vertically and leave 25mm margins.
- The order of entry should be as follows: Title, speaker's name, main text.  
First Line: "Abstract" Fone MS Gothic 12pt. centered.  
Second Line: Speaker's name. MS Mincho 10pt font centered. The speaker's name should be marked with "○" to the left. The speaker's affiliation should be in parenthesis after the name.  
Co-authors should be indicated with "・". Use of two lines is permitted.  
Third Line: Blank  
Fourth Line: main text.
- The main text should describe the purpose, methods, results, etc. (including figures and tables) (see sample below).
- Abstracts (PDF files strictly prohibited) must arrive by September 15, 2022 by email to the Secretariat (SHIMIZU). If the file size exceeds 5MB please request a separate large-file attachment method.
- In the past there have been cases where posted content violated intellectual property rights. Please make adjustment in advance before submitting. The Society and Secretariat do not take responsibility. Please take the same precautions when delivering the presentation.
- There will be no poster presentations this year. Please consider announcing local events from next year onward.

#### 5. Research Presentation Guidelines

- As with last year, presenters should participate from personal computers, allowing other participants to ask questions.
- Presentation time is 10 minutes per topic.
- Presentation language should be Japanese or English.

## 6. Submission of a Presentation Video File

- There is no need to submit a video file. Please prepare so there will be no inconvenience for your real-time presentation.
- Since the content of your presentation will be displayed on a computer screen, please make sure that it is easy to read.

## 7. National Convention Secretariat

This Fiscal Year we are implementing the event online and are considering whether or not to implement a separate secretariat.

We will post to the website at a later date, so please check it.

### <National Convention Secretariat>

26<sup>th</sup> DOWAS National Convention Executive Committee Secretariat

Shimizu Co. Engineering Headquarters New Energy Engineering Division

Secretariat SHIMIZU Katsunori (Cell 090-4924-3922)

E-mail : [katsunori.shimizu@shimz.co.jp](mailto:katsunori.shimizu@shimz.co.jp)

### <Notes>

- 1) In case of co-authors indicate each with“・”. Indicate the speaker with“ ° ” to the left.
  - 2) Affiliation should be written in parenthesis after the name.
  - 3) Be sure to fill in your phone number and email address as there are procedures after applying.
- \* A sample abstract is included on the next page

S0-1. Current status of Deep Ocean Water Resource Utilization in Taiwan

○TAKAHASHI Masayuki

(Taiwan National Chuzan University School of Marine Science, Asia-Pacific Ocean Research Center)

1. Introduction

In response to the first oil crisis in the early 1970's, countries around the world began searching for energy resources to replace oil. Taiwan is located in the subtropics and has a steep east coast suitable for OTEC. With the support of over 50 stakeholders from Finland, France, French Polynesia, Italy, Japan, Holland, Sweden, Taiwan, Great Britain, and the United States, the international OTEC and Deep Ocean Water Association was established (IOA, International OTEC/DOWA Association was originally just OTEC and later DOWA was added) in 1989 as an NPO. From Spring 1990 to winter of 2002 the IOA Newsletter was published in 13 volumes (4 times a year, 52 issues in total) for 13 years, and at the same time, international conferences were often held to raise awareness towards commercialization.

Apart from this, since the latter half of the 1990's, the diverse use of deep ocean water that has become popular in Japan has stimulated interest in the same in Taiwan. I was requested to visit as an expert from Japan. In May of 1990 I met with officials from both central and local governments, research institutes, universities, and companies to hear their interests and proposals. I visited Taiwan again in October to provide explanations.

2. Current Status of Deep Ocean Water Utilization in Taiwan

Based on my proposal, from 2005 to 2007, along the coastline from Hualien Port to Qizingtan, on the south side, using the former site of a Taiwanese fertilizer factor, the Taiwan Deep Ocean Water Company and private companies such as Guanglong Life Science and Technology on the north side and Dongrun Water Resources Co in the north constructed deep ocean water intake facilities, factories, and aquaculture facilities at intervals of 5 to 10km respectively. Each company was greatly influenced by Japan, producing bottled drinking water, deep ocean salt, bittern, lotions, alcohol, etc. for local sales and to China. Dongjun also started farming salmon, trout, and seaweed.

3. Challenges of Using Deep Ocean Water Resources in Taiwan

On the other hand, the Taiwanese government has decided to build a state-supported deep ocean water intake for research and business use in Taitun Prefecture, 100km south of Hualien. {Translation redacted for length}

**DOWAS FY2022 General Meeting and Lecture Report****ARIMA Hirofumi, Secretary General****【General Meeting】****○Date: Tuesday May 31, 2022 10:30-11:20****○Venue: Online (Zoom)****○Materials: DOWAS FY2022 General Meeting Proposals (15 pages)****○Agenda:****1. FY2022-2023 Board of Directors Election Results**

The Secretariat reported the results of the election of the Board of Directors for the FY2022-2023 as shown on page 2 of the materials.

**2. Report on FY2021**

The secretariat and each committee reported on their activities in FY2021, as described on pages 3-8 of the materials.

**3. FY2021 Financial Report**

The secretariat explained the financial situation for FY2021 based on page 9 of the materials.

**4. FY2021 Audit Report**

Accounting Auditor Yasunaga reported the audit was conducted March 23, 2022, and found the accounting of the association to be handled properly, as described on page 10 of the agenda.

**5. FY2022 Plan**

The secretariat and each committee explained their plans for FY2022 based on pages 11-13 of the materials. The plan was approved.

**6. FY2022 Budget**

The secretariat explained the proposed budget for FY2022 based on page 14 of the materials. It was approved as proposed.

**7. Other**

Chair Otsuka reported on the activities of the Deep Ocean Water Education Promotion Committee.

※For the materials of the meeting, please refer to the DOWAS website.

**【Lecture】**

○Date: Tuesday May 31, 2022 11:30-12:00

○Venue: Online (Zoom)

○Title: “History of Deep Ocean Water Research in Taiwan”

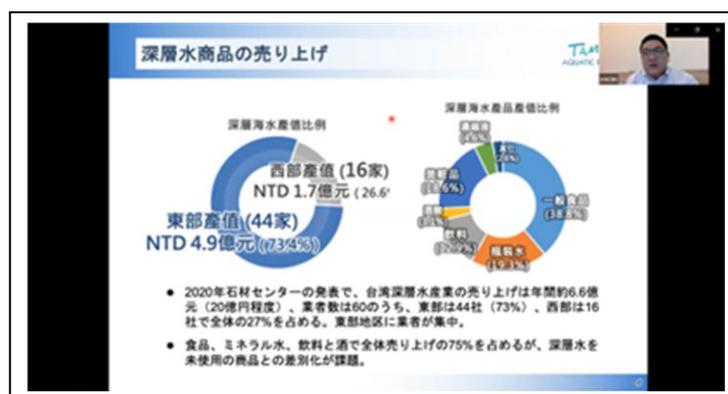
Ping-Yi Hung, Tamsuo Aquatic Products (FY2021 Society Awardee)

Ping-Yi Hung has been actively promoting research and technical development in a wide range of resource utilization fields in Taiwan, including basic research on deep ocean water as well as research and development in the fields of aquaculture, health, pharmacology, and the issues of deep ocean water resources and water intake challenges. For these efforts he received the Society’s Award for 2021. IN this lecture Mr. Hung reported in detail on his past achievements.

【Participation, etc.】 The General Meeting and Lecture for FY2022 were approved with 33 participants and 28 proxies online. Chair Otsuka was elected as the moderator of the meeting and the results of activities and budget for FY2021 as well as the proposed activities and budget for FY2022 were discussed and approved by those present. We would like to express our deepest gratitude to all the members who participated in the General Meeting for their cooperation despite their busy schedules.



View of Annual General Meeting (Zoom)



View of Mr. Hung’s Lecture (Zoom)

**About Change and Retention of the Chair of each Committee in 2022**

Secretary General ARIMA Hirofumi

**【Chair / Replacement】**

- Journal Editing** (current) OUCHI Kazuyuki, Ouchi Consulting  
⇒ (new) IGARASHI Yasuhiro, Toyama Prefectural University,  
Biotechnology Research Center
- Website Editing** (current) ODAKA Yoshio, Yahagi Construction Co.  
⇒ (new) OKAMURA Shin, Xenesys Inc.

**【Chair / Continuing】**

- Newsletter** IMADA Chiaki, Tokyo University of Marine Science and  
Technology emeritus)
- Research Presentation  
Planning** SHIMIZU Katsunori, Shimizu Co.
- Use Promotion** YAMADA Katsuhisa, DHC Co.
- Society Award** IKEGAMI Yasuyuki, Director Institute of Ocean Energy  
Saga University
- Japan Taiwan Korea Exchange** MASAYUKI Takahashi, Kochi University/University of  
Tokyo Professor Emeritus
- Comprehensive Strategy Review** IKEGAMI Yasuyuki, Director Institute of Ocean Energy  
Saga University
- Industry-Government-Academia  
Collaboration Promotion** FUKAMI Kimio, Director Open University of Japan, Kochi  
learning Center
- Education Promotion** OTSUKA Koji, Osaka Metropolitan University