



2021 United Nations Decade  
2030 of Ocean Science  
for Sustainable Development



# **PICES Training Session 3: Science Communication**

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# Science Communication?

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## Inner-group (scientists)

- Similar major/background
- Studying same site (e.g., East/Japan Sea)

## Global collaboration (scientists)

- Language, cultural differences



## Governmental, Policy maker

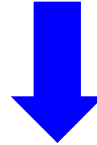
- Clear, Why, How, etc.,
- (?) Need to be looked professional

## Public, Stakeholders

- Simple, Easy, Fun
- Why

# Between Scientists: Super Easy!

- Research (collaboration sampling and/or analysis)
- Fellows (fellowship, funding, etc.,)
- Conferences, Workshops



Global PhD Fellows



[DISCO Home](#) [Purpose](#) [Current Symposium](#) [History](#) [Contact Us](#)

## DISCO by Year

### Dissertations Symposium in Chemical Oceanography (DISCO)

Funding Opportunities

- NSF
- NOAA
- ONR
- NASA
- Ocean Carbon and Biogeochemistry

Sponsored by the National Science Foundation (NSF) and the National Oceanic and Atmospheric Administration (NOAA)

The Dissertations Symposium in Chemical Oceanography provides recent graduates, or soon to graduate, PhD-level chemical oceanographers with an opportunity to present their dissertation research in front of their professional peers and to forge professional relationships that will facilitate their future research and academic careers.

DISCO participants (currently 25 per meeting) are selected from universities all over the world, with a majority of attendees from U.S. universities. The number of participants to date (DISCO I-XXVI) exceeds 640, and they were selected from an applicant pool that exceeded 80 eligible

#### News

**Next DISCO meeting**  
Due to COVID-related travel and in-person meeting restrictions, the DISCO XXVII meeting planned for October 2020 will be held 17-21 October 2021. DISCO XXVII attendees already selected for the original dates will be attending the 2021 meeting.

The following DISCO meeting (DISCO XXVIII) will be held in October 2022, and those application materials will be available near the end of 2021, with a deadline for submission of ~April 2022. Applicants considered for invitation to DISCO XXVIII must have completed their



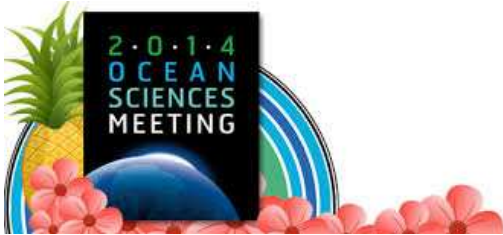
Cruise fellows

DISCO Fellows

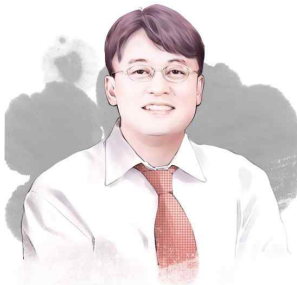
## Between Scientists: Super Easy!

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-Best way to find my collaborator: 1. Conferences



1. I did a poster presentation @OSM 2014
2. I found that Prof. Otosaka Shigeyoshi will do his oral presentation
3. I just went to his presentation and say HELLO! And asked him to come to see my poster.



With his comment, I kept studying East/Japan Sea sinking particles  
And get to know with Dr. Young Il Kim.  
And later, I knew that Young il and Otosaka were lab-mate.



Nowadays,  
Prof. Otosaka send me his surface sediment samples  
[But as a global-collaboration, we are very careful when we mention the “East Sea”  
“Japan Sea”]  
Dr. Young Il and I are writing several papers together

# Between Scientists: Super Easy!

## -Best way to find my collaborator: 1. Conferences



1. I joined in APECS member and participated activities
2. I won the “Travel Grant” ..😊
3. Decided to go to the GRC!



I met Prof. Walker Smith, who wrote a book named “Polynya”. Super excited!! But I was just a PhD candidate,, too young



### Ross Sea RWG Welcomes a New APECS Representative

The SOOS Ross Sea working group has completed its negotiation and expansion, and also added an APECS representative, Dr. Minyoung Kim. The working group members have had a last interdisciplinary meeting to discuss various aspects of international cooperation in the Ross Sea region and will continue to work on issues relevant to SOOS that need to be addressed. The working group composition is as follows: Paula Shore Data and Walker Smith (USA), co-chairs; Petrals Fiala (Italy), Craig Storey (NZ), Marie Perrenet (CN), Giorgio Di Stefano (Italy), Lutz (Germany), Wang (Korea) and, just from Seoul, we wanted to have a small meeting in early autumn to continue our recent progress.

The working group are very pleased to have Dr. Minyoung Kim join the leadership as the APECS representative. Minyoung is a post-doctoral associate in the Department of Earth Science at the Ewha Womans University. She is a chemical oceanographer focusing on mineral dynamics in the central gyre of the Antarctic, and climate change. She was recruited as a post-doctoral fellow at Ewha Womans University in 2018. She has worked in the Southern Ocean Science Center at the Ewha Womans University. Her research focuses on the dynamics of melting particles and sediment to investigate recent and Holocene organic carbon cycling with a high spatial and temporal resolution.

She recently reviewed global-scale sediment trap data. During the process, she realized that it is difficult to find well-organized metadata from the Southern Ocean, and especially data from long time series that are needed to evaluate quantitative relationships between climate variability and carbon export in the Antarctic, the interest in having a well-organized, unified, and independent data repository for the Southern Ocean is high to improve SOOS operations.

She is also preparing to review papers on the Antarctic biological pump submitted to Antarctic journals, driven by recognition of climate change which needs global-scale assessments and interdisciplinary understanding during the SOOS Ross Sea Regional Working Group as the APECS representative will work well with the planned research plan.



My friend suggested me to join in as the APECS-Representative of SOOS, but in Ross Sea Sector. I’ve never studied Ross Sea, but I joined in! Simply because Walker was the leader of the group



I met Prof. Walker Smith again, and now we shared name card, chatted a lot. He (and the group) provide me some travel grant with my ECOP presentation

### [MK Tips]

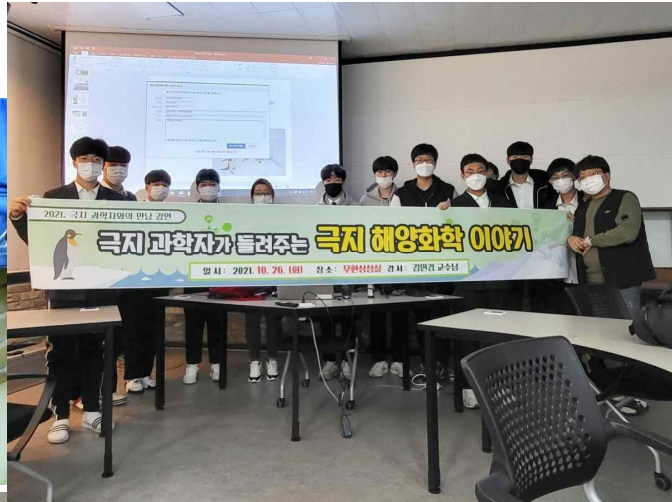
1. Say hello, and tell them exactly why I would like to collaborate with them
2. (If possible), bring some new data or funding chances etc., whatever they will be interested in.
3. We are scientists, so I feel that talking about “Science” works better than just building a networks
4. Network is like a spiderweb. If you already knows someone, it is easy to develop the other one.
5. So...the reputation is important



# To public?

## [MK experiences]

1. Use easy and simple words, interesting figures
2. Be kind...?



*With Young Minds*

What is the Oceanography?  
Why did you choose this job?  
Do you travel a lot? (Is it free?)  
Do I need to swim well to be an oceanography?

**frontiers**  
FOR YOUNG MINDS



# To public?

## [MK experiences]

1. We can use some social-network platforms



You-tube: One of the biggest and major platform to communicate with people

:: Parents, Friends, Cousins...

The most quick and broad responses

Questions about 'my life on board'

Also talk about 'climate change'





We are doing our science with our friends, mentors, mentees  
Let's Build a happy networking among all of us 😊

At the same time, Science no longer the preserve of few group of scientists.  
ECOPs can be the bridge between scientists and the public.

**Thank you**