



25-29 SEPTEMBER 2018  
TAKAMATSU, KAGAWA, JAPAN

IGAC Sponsored

Hiroshi Tanimoto, Chair of Local Organizing Committee

Tatsuya Nagashima, Local Organizing Committee

Satoshi Inomata, Local Organizing Committee

Colette Heald, Co-Chair of Scientific Program Committee

Melita Keyword, Co-Chair of Scientific Program Committee

Kohei Sakata, Co-Chair of Early Career Program Organizing Committee

Sakiko Ishino, Co-Chair of Early Career Program Organizing Committee

HOST INSTITUTIONS



National Institute for Environmental Studies

SPONSORS



PARTICIPANTS

Argentina, Australia, Bangladesh, Belgium, Brazil, Canada, Chile, China, Cote d'Ivoire, Czech Republic, Denmark, Finland, France, Germany, Greece, Hong Kong, India, Indonesia, Israel, Italy, Japan, Kenya, Korea,

# 2018 joint 14th iCACGP Quadrennial Symposium and 15th IGAC Science Conference



Opening ceremony of iCACGP-IGAC 2018

Malaysia, Mexico, Myanmar, Netherlands, Norway, Pakistan, Philippines, Poland, Puerto Rico, Russia, Saudi Arabia, Singapore, Slovenia, South Africa, Sri Lanka, Sweden, Switzerland, Taiwan, Thailand, United Kingdom, United States, Venezuela, and Viet Nam.

BACKGROUND

IGAC's biennial Science Conference is the primary mechanism for IGAC to disseminate scientific information across its international community.

The first IGAC Science Conference was held in 1993 in Eilat, Israel. Since then, IGAC has successfully held fourteen science conferences ([igacproject.org/conferences](http://igacproject.org/conferences)). Every fourth year the conference is held in conjunction with the iCACGP quadrennial symposium, which in 2018 celebrated the 60th anniversary of the iCACGP. The joint iCACGP-IGAC 2018 was held in Japan after 24 years since iCACGP-IGAC 1994 held in Fuji-Yoshida.



**View of Seto Inland Sea from Takamatsu, Kagawa, Japan**

(Courtesy: Makoto Inoue/Sachiko Okamoto)

**T**he 2018 joint 14th iCACGP Quadrennial Symposium and 15th IGAC Science Conference (iCACGP-IGAC 2018) was held 25-29 September 2018 in Takamatsu, Kagawa, Japan. iCACGP-IGAC 2018, with the theme “Atmospheric Chemistry: From Molecules to Global Impacts”, provided a great platform for exchanging information and new ideas on the current scientific knowledge on atmospheric chemistry and its connections to climate change, policy, and other important interdisciplinary work. Overall iCACGP-IGAC 2018 was a huge success with 733 participants representing 46 different countries. Early career scientists represented 40% of the attendees, highlighting vibrant and active research.

iCACGP-IGAC 2018 took place in the beautiful seaside town of Takamatsu, Kagawa, on the island of Shikoku. The weather was gorgeous, and attendees had opportunities to not only experience world-class research, but also exceptional scenery and exciting cultural activities. Upon leaving Takamatsu, the participants experienced

typhoon Trami and prior to Trami, Thomas Sekiyama (JMA-MRI, Japan) provided a daily briefing on the weather forecast.

The five scientific sessions of iCACGP-IGAC 2018 were designed to foster discussions and inspire participants on future endeavors on important fundamental atmospheric chemistry research as well as impacts and connections with other components of the Earth system and human dimension:

- Session 1: Atmosphere chemistry and people
- Session 2: Atmospheric chemistry and fundamentals
- Session 3: Atmosphere chemistry and ecosystems
- Session 4: Atmospheric chemistry and climate/weather
- Session 5: Challenging the future

In addition to the 11 invited speakers and 56 oral presentations in these sessions, three keynote addresses were also given by Hajime Akimoto (NIES, Japan), Ian Galbally (CSIRO, Australia), and Maggie Tolbert

(University of Colorado, USA) on linking fundamental atmospheric chemistry to policy, the history of atmospheric chemistry, and particulate water in aerosols, respectively. Professor Yuan Tseh Lee (Academia Sinica, Taiwan), 1986 Nobel Laureate in Chemistry, also gave a presentation highlighting the challenges faced by atmospheric chemists and their achievements during the period of his distinguished career. In addition to the plenary oral presentations, 580 posters were presented throughout the week. As always, the time allotted for the poster sessions passed by too quickly due to overwhelmingly active interactions and intense discussions. In the evenings, 19 public side meetings were held, all of which had great participation.

iCACGP-IGAC 2018 and its Early Career Program were strongly supported by IGAC-Japan National Committee and Japan Society of Atmospheric Chemistry (JpSAC) as well as the LOC's host institution, National Institute for Environmental Studies (NIES). In total 37 conference sponsors from public and corporate sectors and 14 Early Career Program sponsors from international funders, university and institutions participated in the conference. Supported by local governments, an outreach program was held to disseminate atmospheric chemistry to the public. High-school students and their teachers were invited to the conference to see scientists and listen to various research topics in atmospheric chemistry.

During the banquet the participants were treated to the spectacular and moving "Shodo" performance with a theme of "CONNECT" by Takamatsu Commercial High School Calligraphy Club (Takasho-Girls) and iCACGP celebrated its 60th anniversary with the presentation of the Paul Crutzen Early Career Award to Manabu Shiraiwa (University of California – Irvine, USA), followed by a dance and music party with Swingin' Wonderland JAZZ Orchestra.

The Early Career Program was held throughout the week with the goal of encouraging networking and building collaborations among iCACGP-IGAC early career scientists (ECS). An evening social event and an excursion visiting Japanese cultural sites provided ECS with informal opportunities to meet new peers from around the world. A lunch event for ECS with more than 80 established scientists aided ECS to build connections with senior scientists. In addition, "ECS meet-up area" was open throughout the week to enhance further interactions including established scientists. To help ECS cultivate their perspectives and soft skills, lunchtime seminars with a variety of topics were given: "Dare to be different" by Yuen Tseh Lee (Academia Sinica, Taiwan), "Time management for ECS" by Mark Lawrence



**Hajime Akimoto, Keynote Speaker**

(IASS, Germany), "Social media as a scientist" by Paul Young (Lancaster University, UK), and "An Experience of Leading Science and Scientists" by Laura Gallardo (University of Chile, Chile). As is tradition, ECS took part in the Early Career Poster and Oral Presentation awards. A very high standard of science being produced by the ECS was reflected in the comments received from the judges. This issue of IGACnews features the winners of the Early Career Oral and Poster Presentation competition. Please read on to learn more about these inspiring early career scientists.

Passion is common around the world. We hope you enjoyed iCACGP-IGAC 2018 and made great memories, as well as shared your passion for atmospheric chemistry with your new friends and colleagues from around the world, beyond generations, countries, or any other boundaries. We strongly hope iCACGP-IGAC 2018 was something special for your future work, career, and life. We believe that the effects of the IGAC Science Conference and iCACGP Symposiums will continue for the decades, and all of you contribute to fostering the atmospheric chemistry community for decades to come.

Thank you for coming and joining us in Japan. We are grateful to the entire iCACGP/IGAC community for making iCACGP-IGAC 2018 such a fantastic week. It was a success because of you!

More information on iCACGP-IGAC 2018 can be found at [icacgp-igac2018.org](http://icacgp-igac2018.org). We look forward to seeing all of you again in Manchester, UK for the 16th IGAC Science Conference in 2020. 