2018 Shodoshima, Japan

iCACGP IGAC
Early Career Short Course

September 22-24, 2018

Olivean Hotel, Shodoshima island, Takamatsu, Japan

2018 14th iCACGP 15th IGAC TAKAMATSU KAGAWA JAPAN

iCACGP

INTERNATIONAL GLOBAL ATMOSPHERIC CHEMISTRY IGAC

Welcome to the Participants of the
the 2018 iCACGP/IGAC Early Career Short Course

On behalf of the international Commission on Atmospheric Chemistry and Global Pollution (iCACGP) and the International Global Atmospheric Chemistry (IGAC) Project, we are pleased to welcome you, a select group of 40 participants, to the 2018 iCACGP/IGAC Early Career Short Course, 2018 ICACP/IGAC ECSC.

Both iCACGP and IGAC have a strong focus on engaging with the next generation of atmospheric scientists. The participants to the 2018 ICACP/IGAC ECSC join an international network early in their career that creates relationships, which facilitate international atmospheric chemistry and global pollution research for years to come.

Our conviction is that this short course is an ideal opportunity for 40 early career scientists to extend their knowledge and to begin to create their own international networks of colleagues and friends that will last for decades to come. We look forward to all of you engaging with each other, as well as with the broader community of early career scientists and established scientists during the 2018 joint 14th iCACGP Quadrennial Symposium/15th IGAC Conference.

We wish to take this opportunity to especially thank the Early Career Program Organizing Committee (ECPOC) for their efforts in designing and organizing the short course. Theirs is an outstanding achievement.

We hope that you enjoy and benefit from the short course and we look forward to engaging with each of you at the reception on the 24th of September and throughout the week of the 2018 joint 14th iCACGP Quadrennial Symposium/15th IGAC Conference.

With kind regards,

Prof. John P. Burrows FRS
iCACGP President

Dr. Melita Keywood
iCACGP Vice President

Prof. James R. Drummond FRSC
iCACGP Scientific Secretary

Dr. Mark Lawrence
IGAC Co-Chair

Dr. Hiroshi Tanimoto
IGAC Co-Chair

Dr. Megan L. Melamed
IGAC Executive Officer

Aim of iCACGP/IGAC Short Course

The 2018 iCACGP/IGAC Short course aims to foster professional friendship and collaboration among the future leaders of atmospheric chemistry research. Investing in future leaders is a vital part of both iCACGP and IGAC's mission to foster international atmospheric chemistry research towards a sustainable world.

Time table

Day 0 **Friday 21 Sep.**	**Day 1** **Saturday 22 Sep.**	**Day 2** **Sunday 23 Sep.**	**Day 3** **Monday 24 Sep.**
	7:00-8:30 Breakfast	7:00-8:30 Breakfast	7:00-8:30 Breakfast
	8:30-9:00 **Welcome by iCACGP and IGAC**	9:00-10:15 **Session 3 Science-policy engagement**	9:00-10:35 **Session 4**
	9:00-10:00 **Session 1 Connecting modeling, observations and laboratory studies**		
	10:00-10:30 Coffee break	10:15-10:35 Coffee break	10:35-11:15 Coffee break
	10:30-12:30 **Session 1** continued	10:35-12:30 **Session 3** continued	11:15-12:30 **Session 4** continued
	12:30-13:30 Lunch	12:30-13:30 Lunch	12:30-13:30 Lunch
14:00 Meet at Takamatsu Train Station	13:30-15:30 **Session 2 The future of atmospheric chemistry**	13:30-15:30 **Session 3** continued	14:45 Ferry transfer to Takamatsu
	15:30-16:00 Coffee break	15:30-18:30 Free afternoon	17:00 Meet in the lobby of the Okura Hotel Takamatsu
15:10 Ferry transfer to Shodoshima Island Transfer to and check-in at the Short course Hotel	16:00-17:00 **Session 2** continued		
18:30-21:00 **Ice-breaker** and Dinner	18:30-21:00 Dinner	18:30-21:00 Dinner	18:00-21:00 **Dinner with IGAC SSC and iCACGP members**

Check out information

In the day 3, we need to check out the hotel before starting the session. Please don't forget to bring your luggage to the meeting room.

Dress code for Dinner with IGAC SSC and iCACGP members

Smart casual. No jacket necessary. No t-shirts, no shorts, no jeans, and no sandals please.

Sessions

Session 1 (September 22, 9:00AM – 12:30PM)

Connecting modeling, observations and laboratory studies

Goal and Format

This session aims to provide an opportunity for ECSC participants to begin to think about how they can (or already do) make connections between observation, modelling and lab studies in their own work, now and in the future.
The participants will discuss topics suggested by each instructor following each talk about their experience/perspective on connecting sub-fields.

Agenda

9:00AM	**Talk by Dr. Jim Crawford**
9:40AM	**Table discussion on Question from Jim**
10:00AM	**Break**
10:30AM	**Talk by Prof. Mei Zheng**
11:10AM	**Table discussion on Question from Mei**
11:30AM	**Talk by Dr. Christian George**
11:10AM	**Table discussion on Question from Christian**
12:30PM	**End**

Instructors

Dr. James Crawford
NASA, USA

Prof. Mei Zheng
Peking University,
China

Dr. Christian George
Institut de recherches sur le catalyse et l'environnement de Lyon, CNRS, France

Session 2 (September 22, 1:30PM – 5:00PM)

The future of atmospheric chemistry

Goal and Format

This session aims to provide an opportunity for ECSC participants to get to know and think about several important topics for the future of atmospheric chemistry. This session includes some open discussion and hands-on-work.

Agenda

1:30PM	**"The global discussion around climate engineering"** led by Prof. Mark Lawrence
2:30PM	**"The projected changes and contribution of atmospheric pollution from emerging sources and regions (e.g. Asia, Africa)."** led by Dr. Manish Naja
3:30PM	**Break**
4:00PM	**"The role of satellite-based observations in the future of atmospheric chemistry (including workshop utilizing satellite database)"** led by Dr. Deborah Stein Zweers
5:00PM	**End**

Instructors

Prof. Mark Lawrence
Institute for Advanced Sustainability Studies, Germany

Dr. Manish Naja
Aryabhatta Research Institute of Observational Sciences, India

Dr. Deborah Stein Zweers
Koninklijk Nederlands Meteoroligisch Instituut, Netherlands

Session 3 (September 23, 9:00AM – 3:30PM)

Science-Policy Engagement

Engaging in Science-Policy
Participant Agenda
Olivean Hotel, Shodoshima Island, Japan
Sunday, September 23, 2018

9:00 AM	**Pre-Survey**
9:10 AM	**Introductions & Overview** Round table of introductions; Overview of the plan for the day.
9:35 AM	**What is Science Policy? Why Do We Want to Engage in Science-Policy?** Laying the ground-work for the day. Establishing definitions and a shared understanding of the basics. Includes an interactive component. (Becky)
10:15 AM	**Break**
10:35 AM	**Wrap-up of interactive exercise from "what is science policy?" session**
10:45 AM	**Understanding our role as scientists** Perspectives on science and advocacy, including best-practices and food for thought. Includes an interactive component. (Todd)
11:30 AM	**Panel Discussion: Perspectives on science-policy and science communication** Moderated panel discussion with participants.
12:30 PM	**Lunch with Panelist**
1:30 PM	**Options for Science-Policy Engagement** Introduction to the key considerations for science-policy engagement, including examples of scientists engaging in science-policy.
2:00 PM	**Finding your Path to Engagement** Interactive exercise to map out possibilities for science-policy engagement based on real-world scenarios.
3:20 PM	**Reflections and Closing**
3:30 PM	**End**

Instructors

Dr. Todd Sanford
Polygon Sun Research & Consulting, USA

Dr. Rebecca Garland
Council for Scientific and Industrial Research,
South Africa

Co-design of the session

Dr. Megan L. Melamed
IGAC International Project Office, USA.

Dr. Erika von Schneidemesser
Institute for Advanced Sustainability Studies,
Germany

Session 4 (September 24, 9:00AM – 12:30PM)

World café: Open discussion on global issues

Goal and Format

This session aims to synthesize what have learnt during the ECSC, how we see these topics growing and changing in the future, and what the role of early-career atmospheric scientists is in these areas.
This session is organised in a world cafe style, where groups will rotate between four tables (convened by two ECPOC members), at which they will discuss global issues touched on in the past two days. After the four rotations, we will hold a 'harvest phase' where we will summarise and present the outcome of the discussions at each table.
Finally, a summary of our discussion will be published in IGACnews at a later date!

Agenda

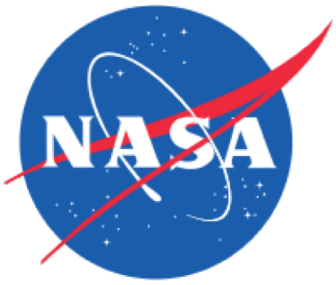
9:00AM	**Introduction to the session, format, goals and outcomes**
9:15AM	**World café rotation 1**
9:45AM	**World café rotation 2**
10:10AM	**World café rotation 3**
10:35AM	**Coffee break**
11:15AM	**World café rotation 4**
11:45AM	**"Harvest Phase"**
12:30PM	**End**

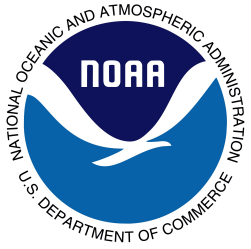
Topics

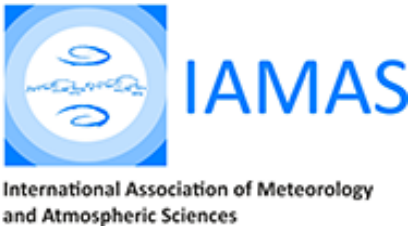
(1) Early career scientists and international collaboration
(2) Connecting modelling, observations and laboratory studies
(3) The future of atmospheric chemistry
(4) Science-policy engagement

Acknowledgement

We thank the sponsors for this short course!







Celebrating the first century
of the International Union of Geodesy
and Geophysics (IUGG)!