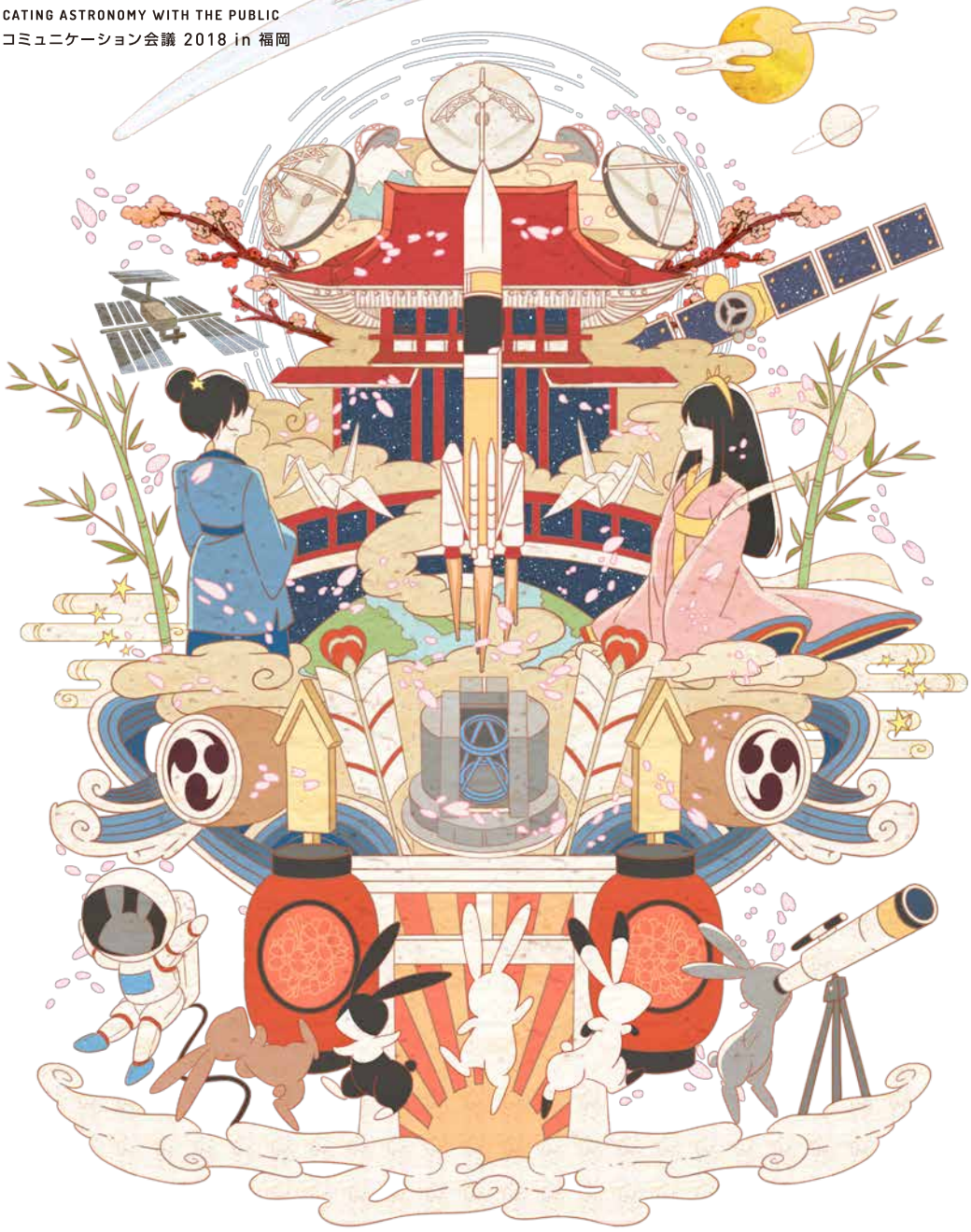
CAP 2018
FUKUOKA JAPAN
COMMUNICATING ASTRONOMY WITH THE PUBLIC
世界天文コミュニケーション会議 2018 in 福岡



Communicating Astronomy with the Public Conference 2018

Communicating Astronomy in Today's World: Purpose & Methods

PROGRAM BOOK

March 24-28, 2018 Fukuoka, Japan

Asteroid “Korokan” and Fukuoka

In 1982, an object located between Mars and Jupiter was discovered by two astronomers at Tokyo Astronomical Observatory, the forerunner of the National Astronomical Observatory of Japan. This object was named “Korokan” and in November 2017 the International Astronomical Union (IAU) officially recognized the name. Korokan was a multipurpose guest house and lodgings from the 7th to 11th Century in what is now Jonai, Chuo Ward, Fukuoka City. At that time this area was a window for exchange between Japan and other countries. Korokan was used by many delegates, merchants, national envoys to the continent, and religious pilgrims. Korokan which is emblazoned into history is now immortalized in the heavens.

Photo Courtesy of Fukuoka City Science Museum Curator Kayoko Tanno

A City Blending the Natural and Urban

Photographer: Fumio Hashimoto

At the start of the 17th Century, Fukuoka Castle was constructed on the site where Korokan had been located. This location which was home to two historically important buildings has a double registry as a National Historic Site. Now it has become Maizuru Park and is famous for its cherry blossoms. Together with Ohori Park, which had been the moat adjacent to Fukuoka Castle, it serves as a “Central Park” where many citizens take a walk or view the cherry blossoms. If you stretch your legs a little, from here you can reach Hakata Bay or Mount Abura. The ocean and mountains exist encircling Fukuoka City, making it a convenient and easy-to-live-in city blending the natural and urban.

On the other hand, Fukuoka City is also a city of international exchange visited by many foreigners. It is the number 1 port of call in Japan for cruise ships from overseas. The number of international conferences held in Fukuoka is second only to Tokyo. The many features of Fukuoka seem to have strong appeal.

Outer Space and Greenery at Fukuoka City Science Museum

Fukuoka City Science Museum is located a little over 1 km from Maizuru Park. It is in Ropponmatsu, where a new town is being built. Until 8 years ago, this area had been Kyushu University. In 1922, Einstein became ill during the boat ride to Japan. He received care from Dr. Miyake of Kyushu University who happened to be onboard with him. In gratitude, Einstein came to Fukuoka at the invitation of Dr. Miyake. The current Honorary Director of Fukuoka City Science Museum is Dr. Koichi Wakata who also served as Commander of the International Space Station. When Dr. Wakata was a student at Kyushu University, he studied at Ropponmatsu. At this science museum, there are people with a deep connection to space and there is also greenery.

Photo Courtesy of Fukuoka City Science Museum

Schedule

Day 0: March 23, Friday

15:00 Registration Opens (6th Floor)
21:00 Registration Closes

Day 1: March 24, Saturday

10:00 Registration Opens (6th Floor)
11:00 Plenary Session 1
Keynote Speaker: Norio Kaifu
13:00 Lunch Break
14:00 Plenary Session 2
15:40 Coffee Break & Poster Session
16:00 Special Session:
IAU 100th Anniversary
17:00 Sessions End
18:30 Welcome Event @ Ohori Park

Day 2: March 25, Sunday

10:00 Plenary Session 3
Keynote Speaker: Wanda Diaz Merced
11:25 Coffee Break
11:55 Plenary Session Resumes
Keynote Speaker: Hitoshi Murayama
13:05 Group Photo
13:15 Lunch Break
14:15 Parallel Sessions
15:45 Coffee Break & Poster Session
16:15 Parallel Sessions
18:00 Sessions End

Day 3: March 26, Monday

10:00 Plenary Session 4
Keynote Speaker: Dominique Brossard
11:25 Coffee Break
11:55 Plenary Session Resumes
13:15 Lunch Break
14:15 Parallel Sessions
15:45 Coffee Break & Poster Session
16:15 Parallel Sessions
18:00 Sessions End
19:00 Conference Banquet
@ Hotel New Otani Hakata

Day 4: March 27, Tuesday

10:00 Workshops
11:30 Coffee Break
12:00 Workshops
13:30 Lunch Break
14:30 Workshops
16:00 Coffee Break & Poster Session
16:30 Workshops
18:00 Workshops End

Day 5: March 28, Wednesday

10:00 Plenary Session 5
Keynote Speaker: Jennifer Ouellette
11:25 Coffee Break
11:55 Plenary Session Resumes
13:15 Lunch Break
14:15 Parallel Sessions
15:45 Coffee Break & Poster Session
16:15 Unconference Session
17:30 Closing Remarks
18:00 Sessions End

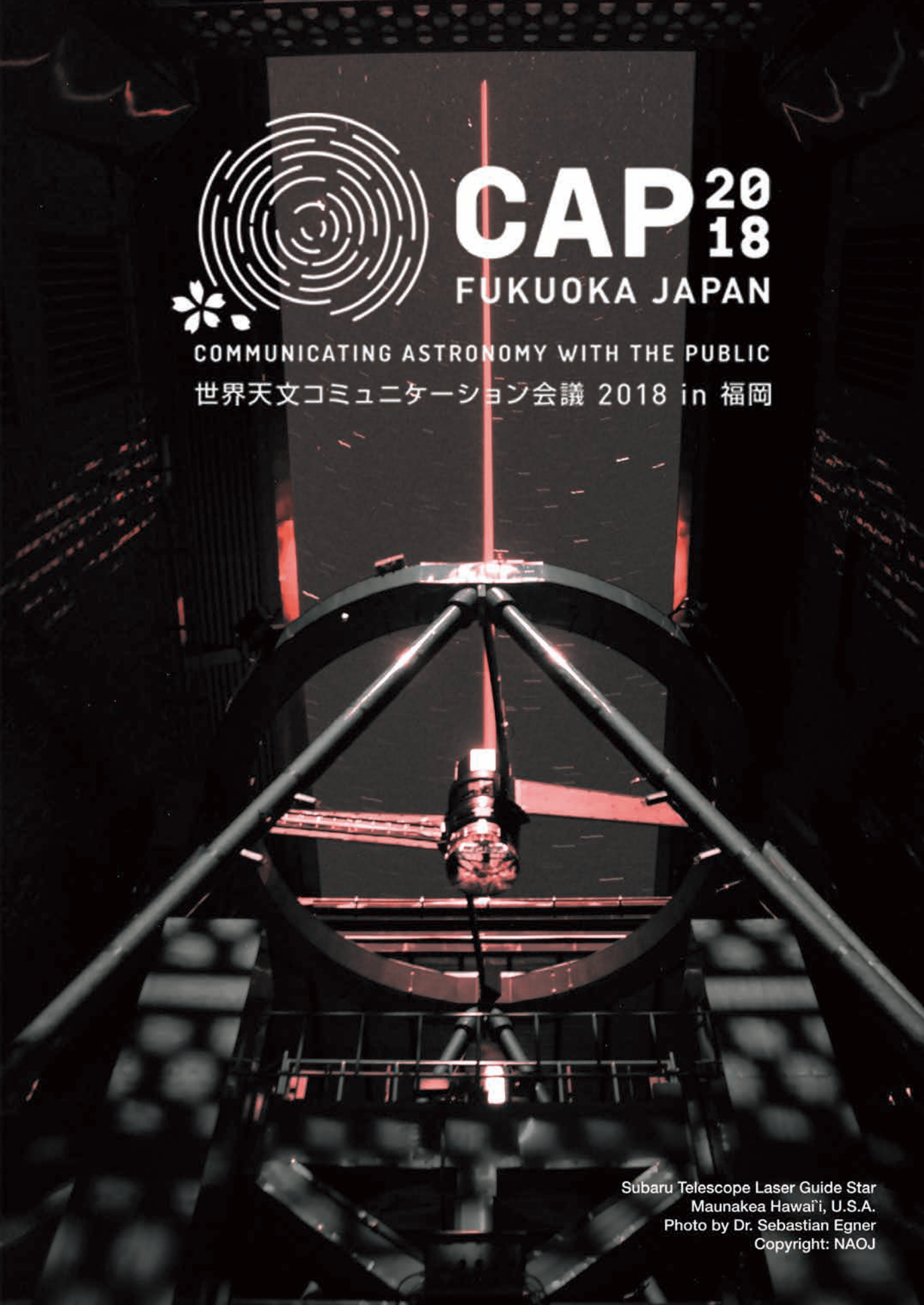
Day 6: March 29, Thursday

9:00 Excursion Departs from Hakata Station
See page 12 for details

Table of Contents

Communicating Astronomy with the Public 2018 Fukuoka
Program Book Credits

Editor: Ramsey Lundock, Ph.D.
Editorial Board: Seiichiro Naito, Hiroko Tsuzuki
Main Visual: chamooi
Design Works: Hiromi Adachi [adachi design laboratory]
Layout and Design: AZDEP.CORP



Subaru Telescope Laser Guide Star
Maunakea Hawai'i, U.S.A.
Photo by Dr. Sebastian Egner

Welcome Letters

Message from the SOC

Dear participants,

Welcome to Japan! Welcome to CAP 2018!
You are about to experience one of the largest gatherings focused on astronomy communication in the world. To those of you attending for the first time, get ready for five days full of sparkling transfer of ideas, networking and cultural exchange. To those of you coming back, we look forward to hearing about your progress!
Over time, CAP conferences have proven to be a driving force to promote astronomy communication and outreach activities. We have no doubt the same will now happen in the Asia-Pacific region. With the support of the International Astronomical Union (IAU) and the dedicated work of our hosts, CAP 2018 has attracted more than 300 participants from 40 countries, the most geographically represented CAP Conference ever.
In a world permanently connected online, our society is also facing challenges that science never imagined could rise again. We find ourselves increasingly dealing with fake news, alternative facts and mistrust in science. In this post-factual era, achieving science literacy at large scale becomes imperative. Our community stands in the front line of that endeavor.
Our theme this edition - Communicating Astronomy in Today's World: Purpose & Methods - is an invitation to reflect on our role in and our means of facing such challenges locally, nationally and as a global community.
Another central point for the conference is the IAU's 100th anniversary in 2019 - an exciting opportunity for our community to once again come together, celebrate and set another milestone for the future of astronomy outreach and communication.
We take this opportunity to express our heartfelt gratitude to the entire Local Organizing Committee for their outstanding work and remarkable dedication and we wish everyone a fruitful and inspiring CAP 2018.

- Sze-leung Cheung and Oana Sandu
Co-Chairs of Science Organizing Committee
IAU Commission C2: Communicating Astronomy with the Public Working Group

Message from the NOC

Japan has a long, proud history of astronomy, starting from depictions of constellations on the ceilings of prehistoric burial mounds and continuing to the present day with world leading observations by the Subaru Telescope. The love of the heavens is not restricted to astronomers. In her "Pillow Book" reflecting on life in the Imperial Court, the 11th century authoress Sei Shonagon states "Subaru (the Pleiades), Altair, and Venus are the most admirable stars." In this spirit, Japan is honored to host the CAP conference to promote the love of astronomy around the world.

- Hisanori Itoh
Chair of National Organizing Committee

Message from the LOC

Our Local Organizing Committee composed of National Astronomical Observatory of Japan (NAOJ) and Fukuoka City teams hopes that your stay in Japan and participation in the CAP 2018 conference will be an unforgettable precious memory!

The central theme of the conference is “Communicating Astronomy in Today’s World: Purpose & Methods”. When our teams first idealised CAP Japan we tried to envision the role of the science communicator as an individual – an influential agent in the society and community she/he is immersed in. As our fragile world faces unsettling events, the science communicator rises as a leader with the tools to revolutionise society itself. But not just any science communicator: the astronomy science communicator. Astronomy is indeed a unique science with the advantage of giving us a sense of place, a sense of scale, a sense of wonder. Astronomy helps us rise beyond ourselves and look at our planet for what it truly is: borderless and unique. And astronomy communicators have the vital role to reach out to the public and to start a movement for critical thinking, tolerance and peace. We must all make this movement accelerate the improvement of society like dark energy accelerating the expansion of our Universe. With CAP 2018 Japan we hope we can provide you with the tools and inspiration as to when upon your return to each of your communities you can actively work towards building a better society through science communication. May CAP 2018 lay the road ahead and let us walk together!

- Hidehiko Agata
Chair of Local Organizing Committee

Acknowledgements

CAP (Communicating Astronomy with the Public) 2018 would not have been possible without the hard work and enthusiasm of the many people in the Science Organizing Committee, National Organizing Committee, and Local Organizing Committee. We also thank the National Astronomical Observatory of Japan for inviting CAP to Japan and the Fukuoka City Science Museum, the student volunteers, and all members of Team Fukuoka representing the host city of Fukuoka for their “omotenashi” (Japanese style unlimited hospitality) spirit. Finally, we thank all of our sponsors (see back cover) for their financial support.

Daily Schedule

● Day 1, March 24, Saturday

	Setting up
10:00	Registration + Setup for Session 1 Posters
	Plenary session 1 (Science Hall, Remote Broadcast in Labs, Simultaneous Japanese Translation Available)
11:00	Opening Ceremony + welcoming
11:30	**K1 - Keynote 1 Kaifu: Astronomy in Society: Development and Practice in Japan**
12:00	T1 - Fienberg: What the AAS Solar Eclipse Task Force Learned from the “Great American Eclipse”
12:20	T2 - Agata: One telescope for one family - “You are Galileo!” project of NAOJ Episode II
12:40	T3 - White: Citizen Scientists Capture Totality with the Eclipse Megamovie
13:00 - 14:00	Lunch IAU NOC’s meeting (by invitation only)
	Plenary session 2 (Science Hall, Remote Broadcast in Labs, Simultaneous Japanese Translation Available)
14:00	T4 - Christensen: Under the hood of ESO outreach
14:20	T5 - Baan: Thinking big in a small country – astronomy press, outreach and education in the Netherlands
14:40	T6 - Sandu: Organising ESO press conferences — what have we learnt?
15:00	T7 - Rodriguez: Only 30 minutes of monthly workout: Media Training
15:20	T8 - Cheung: Updates from the IAU Office for Astronomy Outreach
15:40	Coffee break & poster session (Multipurpose Room 1 + 6th Floor Foyer)
16:00	Special session - IAU 100th Anniversary
17:00	Traveling to a different venue
18:30 - 21:30	Welcome Event: Noh, Stargazing, and Welcome Drink

Welcome Event: Noh, Stargazing, and Welcome Drink

18:30 Noh play @ Ohori-nogakudo
19:00 - 20:30 Public Stargazing Party @ Ohori Park
19:30 - 20:30 Welcome Drink @ Boathouse (in Ohori Park) Group A
20:30 - 21:30 Welcome Drink @ Boathouse (in Ohori Park) Group B

After this day’s sessions, charter buses will leave from Fukuoka City Science Museum for the Noh theater (Ohori-nogakudo). Reservations are not required to board the buses, but due to limited capacity, priority will be given to persons for whom walking is difficult or impossible. Other guests can enjoy a relaxing 30 minute walk through the park to reach the theater. Please refer to the map on page 40.

If you get lost, please hail a taxi and tell the driver “Take me to Ohori-nogakudo.”

Travel time between Fukuoka City Science Museum and Ohori-nogakudo via subway is approximately 30 minutes, including a 15 minute walk between Tenjin-Minami Station and Tenjin Station.

After the Noh play, we will relocate to the neighboring Boathouse in two groups for welcome drinks and stargazing in the park (weather permitting). The Boathouse is close to Ohorikoen Station on the Kuko Subway Line. After the welcome drink you can use the subway to return to your hotel.

Day 2, March 25, Sunday

	Plenary session 3 (Science Hall, Remote Broadcast in Labs, Simultaneous Japanese Translation Available)
10:00	Energiser (15 min)
10:15	**K2 - Keynote 2 Merced: Human factors to foster equal participation**
10:45	T9 - Avery: Autism Spectrum Disorder and the planetarium
11:05	T10 - Del Puerto: "In a certain place in the Universe…" and other multidisciplinary projects of the Instituto de Astrofísica de Canarias
11:25	Coffee break & poster session (Multipurpose Room 1 + 6th Floor Foyer)
11:55	**K3 - Keynote 3 Murayama: Dark Side of the Universe for Everybody**
12:25	T11 - Walsh: Astrophysics Engagement with low science capital communities: a case study in Blackpool, Lancashire, UK
12:45	T12 - Yokohama: Does crowd funding change the shape of science?
13:05	Group Photo
13:15 - 14:15	Lunch CAP Journal meeting (by invitation only) Social event: Tea Ceremony (40 person Capacity)

	Lab 1 (60 seat)	Lab 2 (60 seat)	Lab 3 (60 seat)	Sci. Hall (300 seat)
	Best Practices in Outreach Using Entertainment to communicate science; When science meets art	Media's Role in Astronomy Communication	Best Practices in Outreach	Inclusion, Diversity, Equity and Empathy in Communicating Astronomy
14:15	TA1 - Vauclair	TM1 - Goncalves	TB1 - Yabe	TE1 - Fagbemiro
14:30	TA2 - Decierdo	TM2 - Chariyalertsak	TB2 - Inoue	TE2 - Casu
14:45	TA3 - Foncea	TM3 - Roldán	TB3 - Kinugasa	TE3 - Lubowich
15:00	TA4 - Jones	TM4 - de Alba Martínez	TB4 - Nawawi	TE4 - Tanzilla
15:15	TA5 - Maktoufi	TM5 - Nakamura	TB5 - Villarreal	TE5 - Pitout
15:30	TA6 - Char	TM6 - Aziz	TB6 - Lopattanakit	TE6 - López
15:45	Coffee break & poster session (Multipurpose Room 1 + 6th Floor Foyer)			
	Best Practices in Outreach	Astronomy Communication for a Better World: Global networking in international campaigns; Astronomy communication for Asian Pacific development; Astronomy communication in the developing world	Best Practices in Outreach Outreach in visitor centers, museums, and planetariums	Best Practices in Public Outreach Engaging with students and teachers outside the classroom
16:15	TB7 - Canas	TW1 - Yacob	TV1 - Miyamoto	TS1 - Jones
16:30	TB8 - Delhaize	TW2 - Del Sordo	TV2 - Renchin	TS2 - Sakai
16:45	TB9 - Hashimoto	TW3 - Doran	TV3 - Jaafar	TS3 - Varano
17:00	TB10 - Maffey	TW4 - Chanthawan	TV4 - Hu	TS4 - Sappankum
17:15	TB11 - Ramanujam	TW5 - Fragkoudi	TV5 - Purwati	TS5 - Gupta
17:30	TB12 - Fujiwara	TW6 - Walker	TV6 - Ayani	TS6 - Michaud
17:45-18:00	TB13 - Ohgoe	TW7 - Jiwaji	TV7 - Kamegai	TS7 - Samir

● Day 3, March 26, Monday

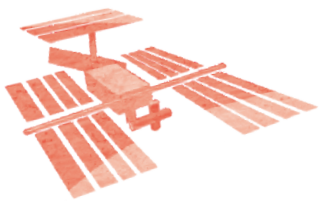
	Plenary session 4 (Science Hall, Remote Broadcast in Labs, Simultaneous Japanese Translation Available)				
10:00	Energiser (15 min)				
10:15	**K4 - Keynote 4 Brossard: Communicating Science in New Media Environments**				
10:45	T13 - Pecier: The Audience-Driven Spaceship -- Giving the Audiences Control Through Interactive Planetarium Shows				
11:05	T14 - Heenatigala: Storytelling through Social Media				
11:25	Coffee break & poster session (Multipurpose Room 1 + 6th Floor Foyer)				
11:55	T15 - Acohido: Curating Content for Gemini Observatory's Dichotomy of Social Media Audiences				
12:15	T16 - Yamani: The Social Media Razor: Astronomy Exploited				
12:35	T17 - Dall'Olio: Costellazione Manga: a space journey through animation, comics and astronomy				
12:55	T18 - De Leo-Winkler: Sensing the Universe				
13:15 - 14:15	Lunch IAU100 meeting with NOC's and project stakeholders (by invitation only)				
	Lab 1 (60 seat)	**Lab 2 (60 seat)**	**Lab 3 (60 seat)**	**Sci. Hall (300 seat)**	**Dome (220 seat)**
	Current Challenges in Astronomy Communication	Miscellaneous	Best Practices in Outreach	Best Practices in Outreach Citizens Science	Using Multimedia, Social Media, Immersive Environments and other Technologies for Public Engagement with Astronomy
14:15	TC1 - Swierkowski	TE7 - Scott	TB14 - Keeratibharat	TZ1 - Ishizaki	TD1 - Inoue
14:30	TC2 - Sandu	TE8 - Kanani	TB15 - Vaquerizo	TZ2 - Usuda-Sato	TD2 - Christensen
14:45	TC3 - Kohler	TE9 - Marigza	TB16 - Zulkifli	TZ3 - Terazono	TD3 - SubbaRao
15:00	TC4 - Delhaize	TW8 - Hamidani	TB17 - Nitiyanant	TZ4 - Walsh	TD4 - Vreeling
15:15	TC5 - Yuna	TV8 - Avery	TB18 - Matsumoto	TZ5 - Sandrelli	TD5 - Fukushi
15:30	TC6 - Pompea	TS8 - Urrutia	TB19 - Arai	TZ6 - Hamura	TD6 - Hiroyuki
15:45	Coffee break & poster session (Multipurpose Room 1 + 6th Floor Foyer)				
	Multimedia, Social Media, Immersive Environments, and other Technologies	Current Challenges in Astronomy Communication Fundraising & how to gain traction on a shoestring budget and Miscellaneous	Best Practices in Outreach Unconventional outreach When science meets art	Best practices in Outreach	Using Multimedia, Social Media, Immersive Environments and other Technologies for Public Engagement with Astronomy
16:15	TT1 - Czart	TF1 - Stasinska	TU1 - Salgado	TB21 -Nguyen	TD7 - Tracey
16:30	TT2 - Cendes	TF2 - Christensen	TU2 - Shaw	TB22 - Lee	TD8 - Lucas
16:45	TT3 - Fitzgerald	TF3 - Mumpuni	TU3 - Duran	TB23 - Nijman	TD9 - Reiko
17:00	TT4 - Impey	TF4 - Retrê	TU4 - Tamazawa	TB24 - Anjos	TD10 - Varano
17:15	TT5 - Morillo	TF5 - Onoma	TU5 - Asami	TB25 - Aoki	TD11 - Loktionov
17:30	TT6 - Isidro	TT8 - Gay	TU6 - Hollow	TB26 - Yaji	TD12 - Garcia
17:45	TT7 - Aronson	TB20 - Yoshikawa	TU7 - Barranta	TB27 - Mohammedy	TD13 - Takahashi
18:00	Remove Session 1 Posters Setup for Session 2 Posters				
19:00-21:00	Conference Banquet				

● Day 4, March 27, Tuesday

	Lab 1 (60 seat)	Lab 2 (60 seat)	Lab 3 (60 seat)	Sci. Hall 1 (70 seat)	Sci. Hall 2 (70 seat)	Sci. Hall 3 (60 seat)
10:00	W1 - Podcasting 102: It's about more than audio (Yamani)	W2 - Astronomy Communication for a Better World: A Workshop on the Quality Lighting Teaching Kit (Walker)	W3 - Organizing Frameworks for Communicating Science in Large, International Science Collaborations (Squires)	W4 - The Tactile Universe: accessible astrophysics public engagement with the vision impaired community (Gupta)	W5 - Tinkering with the Universe: a primary school project (Ricciardi)	W6 - Science Under Threat: Communicating Astronomy in the Age of Misinformation (Impey)
11:30	Coffee break & poster session (Multipurpose Room 1 + 6th Floor Foyer)					
12:00	W7 - Elevator Pitches and Debunking Pseudoscience for Asia and Beyond (Heenatigala)	W8 - Astronomy and it's Digital Sex Appeal: The art behind making people fall in love through social networks (Riaza)	W9 - Encouraging Diversity Through Art-Based Approaches to Astronomy (Pompea)	W10 - IAU100 Years Co-creation Workshop: Get Involved! (Gonzalez)	W11 - Astronomy for Inclusion: building network and sharing hands-on resources (Usuda-Sato)	W12 - Preparing a public engagement activity as a team (Anglada-Escude)
13:30 - 14:30	Lunch SOC business meeting					
	Lab 1 (60 seat)	Lab 2 (60 seat)	Lab 3 (60 seat)	Sci. Hall 1 (70 seat)	Sci. Hall 2 (70 seat)	Sci. Hall 3 (60 seat)
14:30	W13 - Media interviews, do's and dont's (Redeker)	W14 - The relevance of big research infrastructures for non-hosting countries (Nijman)	W15 - Experience design involving astronomical observation - step by step workshop (Alvarez)	W16 - From Earth to the Edge of the Universe: Mitaka software as a tool for education and communication (Kato)	W17 - Major Reach: Immersing the Public in the Live Observing Experience (Hollow)	W18 - Communicating Astronomy through Comics (Seidel)
16:00	Coffee break & poster session (Multipurpose Room 1 + 6th Floor Foyer)					
16:30-18:00	W19 - The Presenter Network - setting up a hub and running your first session. (Avery)	W20 - What's in it for me - Bridges among big projects and local communities (Hayashi)	Popular Workshop Re-run 1	Popular Workshop Re-run 2	Popular Workshop Re-run 3	Popular Workshop Re-run 4

Conference Banquet

The Fukuoka CAP 2018 Banquet will be held at Hotel New Otani Hakata, starting from 19:00 until 21:00. After this day's sessions, please buy a ¥200 ticket at Ropponmatsu Station (in front of Fukuoka City Science Museum) and board the train bound for Tenjin-minami from Platform 1. Disembark at the 4th stop, Watanabe-dori Station. Hotel New Otani Hakata is a 1 minute walk from Watanabe-dori Station exit 2.



● Day 5, March 28, Wednesday

	Plenary session 5 (Science Hall, Remote Broadcast in Labs)			
10:00	Energiser (15 min)			
10:15	**K5 - Keynote 5 Ouellette: Battling the Backfire Effect: It Takes a Phase Transition to Change a Mind**			
10:45	T19 - Tasker: We have not found Earth 2.0: Debunking the media			
11:05	T20 - Retrê: Future Scientists Communicating Science			
11:25	Coffee break & poster session (Multipurpose Room 1 + 6th Floor Foyer)			
11:55	T21 - Shibata: Astronomy Translation Network: the Challenges of Translating Astronomy Resources Globally			
12:15	T22 - Dennis: Operating an Interpretive Center as part of Federal Government			
12:35	T23 - Aoki: Experiences related to the TMT site problem in Japan			
12:55	T24 - McBride: The potential of the public in Astronomy for Development			
13:15 - 14:15	Lunch			
	Lab 1 (60 seat)	**Lab 2 (60 seat)**	**Lab 3 (60 seat)**	**Sci. Hall (300 seat)**
	Current Challenges in Astronomy Communication	Best Practices in Outreach	Best Practices in Outreach	Best Practices in Outreach Engaging children and students
14:15	TC7 - Sasaki	TB28 - Handini	TB34 - Shibata	TY1 - Schrier
14:30	TC8 - Alvarez	TB29 - Farprakay	TB35 - Hiramatsu	TY2 - Handa
14:45	TC9 - Harris	TB30 - Dalgleish	TB36 - McSweeney	TY3 - Sandrelli
15:00	TC10 - Kakazu	TB31 - Simmons	TB37 - Oniosun	TY4 - Londhe
15:15	TC11 - Thongmee	TB32 - Jäger	TB38 - Aoki	TY5 - Kamobe
15:30	TC12 - Venugopal	TB33 - Tran	TB39 - Ruiz-Zelmanovitch	TY6 - Eugenio
15:45	Coffee break & poster session (Multipurpose Room 1 + 6th Floor Foyer)			
16:15	Unconference session	Unconference session	Unconference session	Unconference session
17:15	Break to gather in plenary room			
17:30-18:00	Closing Remarks			

● Day 6, March 29, Thursday

Excursion

There are two options for the tour: “Fukuoka City Walking Tour” and “Dazaifu Tenmangu & Kyushu National Museum Bus Tour.” Both the walking tour and the bus tour will depart from Hakata Station on the Kuko Subway Line at 9:00. Please make sure you join the tour for which you are registered.

Option A: Fukuoka City Walking Tour

Walking around the Hakata Teramachi where you can feel the weight of millenary history and enjoy old traditional houses in Hakata, Fukuoka.
Guided Tour in English / About 3 hours required

Kushida Jinja, Photo Courtesy of Fukuoka City

Taiko Bridge, Photo Courtesy of Dazaifu Tenmangu

Option B: Dazaifu Tenmangu & Kyushu National Museum Bus Tour

Visit Dazaifu Tenmangu that is famous for its god of literature and Kyushu National Museum which specializes in the interaction between Japan and the Asian region.
Guided Tour in English / About 6.5 hours required / Lunch included (restaurant)

Invited Speakers

Norio Kaifu

Honorary Professor of the National Astronomical Observatory of Japan, and Advisor to the IAU

Astronomy in Society: Development and Practice in Japan

Day 1 March 24, 11:30 in Science Hall

Biographical Sketch

Honorary Professor of the National Astronomical Observatory of Japan (NAOJ), and Advisor to the IAU, Norio Kaifu graduated from the University of Tokyo, Ph.D. in astronomy in 1972. He led the construction of the Nobeyama 45-m mm-wave Telescope in 1978-1982. He directed the 8.2-m Subaru Telescope construction on Maunakea in 1991-2000 and was appointed Director General of NAOJ (2000-2006). He also started ALMA-Japan. Having published 150 papers and several textbooks, his current scientific interest is exo-planets and life in the universe.

He served as a senior member of the Science Council of Japan. He also established the EAMA (East Asian Meeting on Astronomy) in 1990 and the EACOA (East Asian Core Observatories Association) in 2005, which recently resulted in the start of EAO (East Asian Observatory). For the IAU he served as Vice President, member of the IYA2009 Working Group, President Elect, and President in 2012-2015. He is a writer and lecturer of science for the general public and also known as a book reviewer of the wide field of science.

Lecture Summary

IAU started ISYA a half century before, and had been developing cooperation with school teachers, amateur astronomers, journalists and science communicators. Recently such efforts bore fruit as OAD, OAO and OYA, stable platforms for development, outreach and education of astronomy respectively, making the IAY2009 springboard.

Japan has only a short history of modern astronomy started in the end of 19C., but its acceptance was swift, both in research and in public. The establishment of Kurashiki Observatory, the Japan's first private astronomical observatory open for all public, was in 1926. Such "astronomical observatories for public" were well accepted by people with curiosities about universe. Now nearly 300 public observatories and planetariums are being operated, and many local "star festivals" like "Tanabata" events are organized throughout seasons. I summarize those development and practice of astronomy communication in Japan, and discuss the IAU future point of view of astronomy in society and nations.

Wanda Diaz Merced

Postdoctoral Research at the IAU Office of Astronomy for Development

Human Factors to Foster Equal Participation

Day 2 March 25, 10:15 a.m. in Science Hall

Biographical Sketch

Wanda L Diaz Merced is an astrophysicist from Puerto Rico, where she was born, raised and did her studies in physics. When she lost her sight in her early 20s, her dreams of studying stars in the visually oriented scientific world suffered a major setback — until she discovered "sonification," a way to turn huge data sets into audible sound using pitch, duration and other properties. She has a PhD from the University of Glasgow in the use of sound to analyze astrophysics data. Since the year 2000, Dr Wanda has been working on finding perceptual modalities to analyze data and teach learners (students) how to analyze that same data. She focuses on learners with disabilities. Dr Wanda is currently a Postdoctoral Researcher at the IAU Office of Astronomy for Development (OAD), in Cape Town where she works developing instructional material to teach disabled learners at school level how to analyze astronomical data.

Lecture Summary

In her presentation, Wanda will talk about the work of her team focused on the transitions from school to university level and then on to the professional field of astronomy for people with disabilities. She will stress upon concepts such as User-Centered Design (UCD), User Experience (UX) and Computer-Human Interaction (CHI) as priorities for the creation of sustainable applications. She will also focus on the central role of verbalisation in bringing knowledge to the world of the learner, either a scientist or a student. The message she wants to leave the audience with is that it is not only necessary to accommodate the learner's or performer's needs, but also to maximise, encourage, support and promote the ways a person performs at her/his own maximum capacity. One should not underestimate the efforts it takes to reach one's own maximum level. She will finally encourage enhancing and underlining the groundbreaking initiatives in astronomy that give everyone the same advantages and opportunities to level the playing field.

Hitoshi Murayama

Director Kavli IPMU, University of Tokyo

Dark Side of the Universe for Everybody

Day 2 March 25, 11:55 in Science Hall

Biographical Sketch

Hitoshi Murayama is a theoretical physicist who works on the connection between the physics of the small (elementary particles) and of the large (the Universe). In addition, he worked on a neutrino experiment and is currently leading a team of astronomers.

Hitoshi Murayama received his Ph.D. in theoretical physics from the University of Tokyo in 1991. He had worked as a Research Associate at Tohoku University from April 1991, and was a postdoctoral fellow at Lawrence Berkeley National Laboratory from September 1993. He joined the Physics Department at UC Berkeley in July 1995, became an Associate Professor in July 1998, and Professor in July 2000. Professor Murayama is also the Director of the Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU) at the University of Tokyo. He received Yukawa Commemoration Prize in Theoretical Physics in 2002. He is a Fellow of American Physical Society and a Member of the American Academy of Arts and Sciences.

He is well-known for his clear lectures for students and general audience.

Lecture Summary

It was a stunning revelation that 95% of the Universe is made of things we don't know. About 25% among them is dark matter, and 70% dark energy, yet nobody knows what they are. I will discuss how this amazing mystery provides us a great opportunity to get the general public excited about science. I attempt to use this mystery to showcase my way of communicating science. For example, dark matter is our Mom separated at birth. On the other hand, dark energy is evil ripping us apart. And neutrinos may well be the superhero that protected us from the complete annihilation. I present how I make use of these metaphors to communicate esoteric concepts in modern cosmology to the general public. In addition, I discuss why we care about science communication at all, from the point of view of a scientist.

Dominique Brossard

Professor & Chair in the Department of Life Sciences Communication, University of Wisconsin-Madison

Communicating Science in New Media Environments

Day 3 March 26, 10:15 in Science Hall

Biographical Sketch

Dominique Brossard is professor and chair in the Department of Life Sciences Communication at the University of Wisconsin-Madison and an affiliate of the UW-Madison Robert & Jean Holtz Center for Science and Technology Studies, the UW-Madison Center for Global Studies and the Morgridge Institute for Research. Her teaching responsibilities include courses in strategic communication theory and research, with a focus on science and risk communication. Brossard's research agenda focuses on the intersection between science, media and policy with the Science, Media and the Public (SCIMEP) research group, which she co-directs. A fellow of the American Association for the Advancement of Science and a former board member of the International Network of Public Communication of Science and Technology, Brossard is an internationally known expert in public opinion dynamics related to controversial scientific issues. She is particularly interested in understanding the role of values in shaping public attitudes and using cross-cultural analysis to understand these processes. She has published more than 100 research articles in outlets such as Science, Proceedings of the National Academy of Science, Science Communication, the International Journal of Public Opinion, Public Understanding of Science, and Communication Research and has been an expert panelist for the National Academy of Sciences on various occasions. Brossard earned her M.S. in plant biotechnology from the Ecole Nationale d'Agronomie de Toulouse and Ph.D. in communication from Cornell University.

Lecture Summary

In her talk, "Communicating Science in New Media Environments," she will discuss how scientific discourse gets constructed in online environments and stress the aspects that need to be taken into account for successful science communication, based on empirical research findings. Notably, she will present recent research results examining how cues given in social media settings can influence people's perception of science and will discuss the importance of trust in effective science communication.

Jennifer Ouellette

Science Writer and Author

Battling the Backfire Effect: It Takes a Phase Transition to Change a Mind

Day 5 March 28, 10:15 in Science Hall

Biographical Sketch

Jennifer Ouellette is a nationally recognized science writer and the author of four popular science books: Me, Myself, and Why: Searching for the Science of Self (2014); The Calculus Diaries: How Math Can Help You Lose Weight, Win in Vegas, and Survive a Zombie Apocalypse (2010); The Physics of the Buffyverse (2007); and Black Bodies and Quantum Cats: Tales from the Annals of Physics (2006), all published by Penguin.

She is former science editor of Gizmodo, a popular technology/science daily news blog that garners over 35 million page views per month. Her freelance work has appeared in the Washington Post, the Wall Street Journal, the Los Angeles Times, the New York Times Book Review, Discover, Slate, Salon, Smithsonian, Mental Floss, Pacific Standard, Nature, Physics Today, Physics World, and New Scientist, among other venues. From November 2008 to October 2010, Ouellette was the founding director of the Science and Entertainment Exchange, a Los Angeles-based initiative of the National Academy of Sciences aimed at fostering creative collaborations between scientists and entertainment industry professionals in Hollywood. She holds a black belt in jujitsu, and lives in Los Angeles, California, with her husband, Caltech physicist Sean (M.) Carroll.

Lecture Summary

While many people profess to like science, they will reject or deny any science that strikes at their most deeply held core beliefs—those strongly tied to personal identity. When that happens, facts cease to matter. In fact, pointing out the facts in a rational argument will only drive them deeper into denial—a phenomenon known as the backfire effect—and even clever alternative strategies, such as telling a compelling story or appealing to their emotions, might not be sufficient to overcome that resistance. So what is a science communicator to do? This talk will explore the current understanding of how and why people reject certain scientific findings, and where we can find glimmers of hope in terms of fashioning successful strategies to reach those mired in denial.

Detailed Program

Times and Rooms Subject to Change
Please check the program errata and on-site announcements.

Keynote Speakers			
Time	Room	Number	Title & Presenter
11:30 March 24	Sci. Hall	K1	Keynote 1 Astronomy in Society: Development and Practice in Japan (Norio Kaifu, Honorary Professor of the National Astronomical Observatory of Japan NAOJ, Advisor to the IAU, writer and lecturer, Japan)
10:15 March 25	Sci. Hall	K2	Keynote 2 Human factors to foster equal participation (Wanda Diaz Merced, Postdoctoral Researcher at the IAU Office of Astronomy for Development, Cape Town, South Africa)
11:55 March 25	Sci. Hall	K3	Keynote 3 Dark Side of the Universe for Everybody (Hitoshi Murayama, PhD theoretical physicist, Professor at the University of California, Berkeley, and Director of the Kavli Institute for the Physics and Mathematics of the Universe at the University of Tokyo, Japan)
10:15 March 26	Sci. Hall	K4	Keynote 4 Communicating Science in New Media Environments (Dr. Dominique Brossard, Professor and Chair in the Department of Life Sciences Communication at the University of Wisconsin-Madison, USA)
10:15 March 28	Sci. Hall	K5	Keynote 5 Battling the Backfire Effect: It Takes a Phase Transition to Change a Mind (Jennifer Ouellette, science writer and author, former science editor of Gizmodo, USA)

Special Session			
Time	Room	Number	Title
16:00 March 24	Sci. Hall	S1	Special Session: IAU 100th Anniversary

Plenary Sessions			
Time	Room	Number	Title & Presenter
12:00 March 24	Sci. Hall	T1	What the AAS Solar Eclipse Task Force Learned from the “Great American Eclipse” (Rick Fienberg)
12:20 March 24	Sci. Hall	T2	One telescope for one family: “You are Galileo!” project of NAOJ Episode II (Hidehiko Agata. Co-authors: Hiroyuki Takata, Yasuhisa Tsuzuki, Shinji Kashima)
12:40 March 24	Sci. Hall	T3	Citizen Scientists Capture Totality with the Eclipse Megamovie (Vivian White. Co-authors: Laura Peticolas, Calvin Johnson, Brian Kruse, Dan Zevin, Igor Roderman, Bryan Mendez, Hugh Hudson)

14:00 March 24	Sci. Hall	T4	Under the hood of ESO outreach (Lars Lindberg Christensen)
14:20 March 24	Sci. Hall	T5	Thinking big in a small country – astronomy press, outreach and education in the Netherlands (Marieke Baan. Co-authors: David Redeker, Jaap Vreeling)
14:40 March 24	Sci. Hall	T6	Organising ESO press conferences — what have we learnt? (Oana Sandu. Co-authors: Lars Lindberg Christensen, Richard Hook)
15:00 March 24	Sci. Hall	T7	Only 30 minutes of monthly workout: Media Training (Francisco Rodríguez. Co-authors: Mylène André and Laura Ventura)
15:20 March 24	Sci. Hall	T8	Updates from the IAU Office for Astronomy Outreach (Sze-leung Cheung. Co-authors: Hidehiko Agata, Lina Canas, Yukiko Shibata and IAU NOCs)
10:45 March 25	Sci. Hall	T9	Autism Spectrum Disorder and the planetarium (Elizabeth Avery)
11:05 March 25	Sci. Hall	T10	In a certain place in the Universe… and other multidisciplinary projects of the Instituto de Astrofísica de Canarias (Carmen Del Puerto)
12:25 March 25	Sci. Hall	T11	Astrophysics Engagement with low science capital communities: a case study in Blackpool, Lancashire, UK (Robert Walsh. Co-author: Cherry Canovan)
12:45 March 25	Sci. Hall	T12	Does crowd funding change the shape of science? (Hiromi Yokoyama. Co-author: Yuko Ikkatai)
10:45 March 26	Sci. Hall	T13	The Audience-Driven Spaceship -- Giving the Audiences Control Through Interactive Planetarium Shows (Paul Decierdo Pecier)
11:05 March 26	Sci. Hall	T14	Storytelling through Social Media (Thilina Heenatigala)
11:55 March 26	Sci. Hall	T15	Curating Content for Gemini Observatory's Dichotomy of Social Media Audiences (Alexis Ann Acohido)
12:15 March 26	Sci. Hall	T16	The Social Media Razor: Astronomy Exploited (Avivah Yamani. Co-author: Wicak Soegijoko)
12:35 March 26	Sci. Hall	T17	Costellazione Manga: a space journey through animation, comics and astronomy (Daria Dall'Olio, Piero Ranalli, Alessandro Montosi)
12:55 March 26	Sci. Hall	T18	Sensing the Universe (Mario De Leo-Winkler, Gillian Wilson, Sarah L. Simpson)
10:45 March 28	Sci. Hall	T19	We have not found Earth 2.0: Debunking the media (Elizabeth Tasker. Co-authors: Joshua Tan, Kevin Heng, Stephen Kane, David Spiegel)
11:05 March 28	Sci. Hall	T20	Future Scientists Communicating Science (João Retrê. Co-authors: José Afonso, Rui Agostinho)
11:55 March 28	Sci. Hall	T21	Astronomy Translation Network-the Challenges of Translating Astronomy Resources Globally (Yukiko Shibata. Co-authors: Kumiko Usuda-Sato, Thilina Heenatigala, Lina Canas, Sze-leung Cheung, Hidehiko Agata)
12:15 March 28	Sci. Hall	T22	Operating an Interpretive Center as part of Federal Government (Crabtree Dennis. Co-authors: James E. Hesser, Ben Dorman, Don Moffatt)

12:35 March 28	Sci. Hall	T23	Experiences related to the TMT site problem in Japan (Wako Aoki. Co-author: Miki Ishii, TMT-J project office)
12:55 March 28	Sci. Hall	T24	The potential of the public in Astronomy for Development (Vanessa McBride)

Best Practices in Outreach Using Entertainment to communicate science; When science meets art			
Time	Room	Number	Title & Presenter
14:15 March 25	Lab 1	TA1	The real music of the stars (Sylvie Vauclair)
14:30 March 25	Lab 1	TA2	Astronomy Popularization Through Art and Ethnoastronomy (Pecier Paul Decierdo)
14:45 March 25	Lab 1	TA3	How an astronomical facility like ALMA turns to be a magnet for artists and musicians (Valeria Foncea, Nicolás Lira)
15:00 March 25	Lab 1	TA4	We gave away the whole Universe to artists: The #SotonAstroArt project (Sadie Jones)
15:15 March 25	Lab 1	TA5	Science and Entertainment: How Astronomers use Pop Culture references for Science Communication (Reyhaneh Maktoufi)
15:30 March 25	Lab 1	TA6	Astrophotography as a tool for astronomy education from northern Chile (Farid Char)

Best Practices in Outreach			
Time	Room	Number	Title & Presenter
14:15 March 25	Lab 3	TB1	Lessons learned on JAXA's outreach activity of X-ray Astronomy Satellite "Hitomi" (ASTRO-H) (Azusa Yabe, Chisato Ikuta)
14:30 March 25	Lab 3	TB2	Challenge to communicate the basics of scientific results from the solar observing satellite Hinode (Naoko Inoue)
14:45 March 25	Lab 3	TB3	PR and Communication activities in Nobeyama Radio Observatory, NAOJ (Kenzo Kinugasa, Hayashi, M., Ide H., Mikoshiba, H., Miyazawa, K., and Tatematsu, K.)
15:00 March 25	Lab 3	TB4	Communication Astronomy to Public Through Travelogue and Super moon Event (Mohd Saiful Mohd Nawawi, Raihana Wahab, Nurul Huda Ahmad Zaki, Mohammaddin Abdul Niri)
15:15 March 25	Lab 3	TB5	Take the streets for astronomy (Hugo Alberto Jasso Villarreal, Janett Aleman Cervantes)
15:30 March 25	Lab 3	TB6	Astronomy Outreach of the Regional Observatory for the Public and its impacts across Southern Thailand (Budsakon Lopattanakit)
16:15 March 25	Lab 1	TB7	IAU and the Public: IAU Office for Astronomy Outreach (OAO) Communications (Lina Canas, Hidehiko Agata, Sze-leung Cheung, Yukiko Shibata)
16:30 March 25	Lab 1	TB8	The Naked Scientists in Croatia - Successes and challenges of running an international-standard science communication event in a smaller country (Jacinta Delhaize)
16:45 March 25	Lab 1	TB9	A spectroscopic eyepiece system for large telescopes at public observatories (Osamu Hashimoto, Hikaru Taguchi)

17:00 March 25	Lab 1	TB10	How do you provide the sharpest view on the Universe? (Gina Maffey, Illse van Bemmel, Paco Colomer, Huib Jan van Langevelde)
17:15 March 25	Lab 1	TB11	National campaigns in India: what do they teach us? (Niruj Ramanujam, Samir Dhurde, T.V. Venkateswaran, Rathnasree Nandivada, Aniket Sule, Priya Hasan)
17:30 March 25	Lab 1	TB12	Astronomical communication between the public and a remote observatory challenges of Subaru Telescope (Hideaki Fujiwara)
17:45 March 25	Lab 1	TB13	Popularization of solar eclipse observation by “Nissyoku Jyouhou Center (the solar eclipse information center of Japan” (Osamu Ohgoe)
14:15 March 26	Lab 3	TB14	The Project of Light Pollution reduction at Doi Inthanon National Park, Thailand (Jessada Keeratibharat, Watunyoo Patwong)
14:30 March 26	Lab 3	TB15	Searching for Life in the Universe. EPO Activities in the Centro de Astrobiología (CSIC-INTA) (Juan Ángel Vaquerizo)
14:45 March 26	Lab 3	TB16	Implementing Astronomy in tourism in Northern Borneo, Malaysia (Emma Zulkifli)
15:00 March 26	Lab 3	TB17	Potentiality of “Astro-Tourism” in Mainland Southeast Asia (Pisit Nitiyanant)
15:15 March 26	Lab 3	TB18	Astronomy as a possible tool of community building and tourist resources in the sub-tropical isolated isles - case study in Okinawa, Japan (Takeshi Matsumoto, Reo Shinagawa, Maiko Shimabukuro)
15:30 March 26	Lab 3	TB19	Introduction of Astro-Tourism in Japan “Sora Tourism” -As a strategy to promote science culture - (Makoto Arai, Hidehiko Agata, Hiroaki Akiyama, Naoko Yamazaki)
17:45 March 26	Lab 2	TB20	Public Communication and Public Outreach of Hayabua2 Mission (Makoto Yoshikawa, Yuichi Tsuda, Satoru Nakazawa, Sei-ichiro Watanabe, and Hayabusa2 Project Team)
16:15 March 26	Sci. Hall	TB21	Communicating Astronomy with the Public: Communicating A Deviance in Vietnam (Tan Vu Nguyen)
16:30 March 26	Sci. Hall	TB22	KASI’s collaboration with amateur astronomical associations (Seo Gu Lee, Hyunjin Kim, Kooksup Jo, Haeim Jeong, Kyung -Suk Lee, Jenam Jang)
16:45 March 26	Sci. Hall	TB23	Communicating radio astronomy: challenges and best practices (Iris Nijman)
17:00 March 26	Sci. Hall	TB24	Communicating astronomy-knowing your audience (Sara Anjos, Anabela Carvalho, Pedro Russo)
17:15 March 26	Sci. Hall	TB25	Public relations, education and outreach on TMT project in Japan (Wako Aoki, TMT-J project office)
17:30 March 26	Sci. Hall	TB26	Touch the Sun with Hinode together (Kentaro Yaji)
17:45 March 26	Sci. Hall	TB27	Communicating Astronomy in Bangladesh: Achievements and Challenges (Farseem Mohammedy)

14:15 March 28	Lab 2	TB28	Evaluation of langitselatan EPO Activities (Ajeng Tri Handini, Ratna Satyaningsih, Avivah Yamani, Aldino Adry Baskoro, Ronny Syamara)
14:30 March 28	Lab 2	TB29	The Astronomy network of NARIT youth camp. (Jiarakoopt Farprakay)
14:45 March 28	Lab 2	TB30	Lessons learned from 50 years of the International Astronomical Youth Camp (Hannah Dalgleish, Joshua Veitch-Michaelis)
15:00 March 28	Lab 2	TB31	Meeting the Challenges of, and Building on, 2017 US Eclipse (Mike Simmons, Lindsay Bartolone, Zoe Chee)
15:15 March 28	Lab 2	TB32	Developing a free astronomical exhibition for everybody (Mathias Jäger, Lars Lindberg Christensen, Tania Johnston)
15:30 March 25	Lab 2	TB33	Effectiveness of a Children-Friendly Astronomy News Platform for Science Learning – An exploratory Study (Han Tran)
14:15 March 28	Lab 3	TB34	The Star-Sommelier has opened a new way for a wider astronomy communication (Shinpei Shibata, Masaki Kouda, Eri Watanabe, Kyohei Ando, Akihiko Tomita, Masahiro Mizutani, Kouichi MIzutani, Kozue Uryu and on behalf of the organization of the qualification system for the astronomy guide)
14:30 March 28	Lab 3	TB35	Public Acceptance of ALMA in Japan (Masaaki Hiramatsu)
14:45 March 28	Lab 3	TB36	The Summer of Space; harnessing the power of conferences to engage public participation in astronomy. (Clair McSweeney, Niall Smith, Niamh Shaw)
15:00 March 28	Lab 3	TB37	Evaluating the impacts of Space Club Futa in promoting space science and astronomy in Nigeria (Temidayo Oniosun)
15:15 March 28	Lab 3	TB38	Outreach activity by astronomical walking tour with historical aspects and by lecture “Millennium Trail of Astronomy in Kyoto” (Seiichiro Aoki)
15:30 March 28	Lab 3	TB39	Fostering Astrochemistry Knowledge in Society (Natalia Ruiz-Zelmanovitch, Marcelo Castellanos)

Current Challenges in Astronomy Communication

Time	Room	Number	Title & Presenter
14:15 March 26	Lab 1	TC1	Multimodal metaphors in astronomy communication (Jan Swierkowski)
14:30 March 26	Lab 1	TC2	Opening up science in today’s society, how feasible is that? (Oana Sandu, Guillem Anglada Escude, Lars Lindberg Christensen, Richard Hook)
14:45 March 26	Lab 1	TC3	Using AAS Nova and Astrobites to Make Current Astronomy Research Accessible (Susanna Kohler)
15:00 March 26	Lab 1	TC4	The COSMOS survey: Engaging the public in a large, multi-national, multi-wavelength astronomical consortium (Jacinta Delhaize)
15:15 March 26	Lab 1	TC5	The ability of public in Indonesia to determine whether an information about astronomy is valid or hoax (Dwi Yuna)

15:30 March 26	Lab 1	TC6	Astronomy Best Practices in Using Galileoscopes to Foster Science Interest and an Understanding of Science Process (Stephen Pompea, Richard Tresch Fienberg, Douglas N. Arion, Robert T. Sparks)
14:15 March 28	Lab 1	TC7	The Science of Branding & the Branding of Science: Corporate marketing & communications practices for science institutions and science outreach (Chris Sasaki)
14:30 March 28	Lab 1	TC8	Astronomy in Chilean public opinion. A survey and recommendations for a country brand strategy (Pablo Alvarez)
14:45 March 28	Lab 1	TC9	Astronomy Education and Outreach: Becoming and Remaining relevant (to local communities)
15:00 March 28	Lab 1	TC10	Communicating Astronomy through Culture-based Programs (Yuko Kakazu)
15:15 March 28	Lab 1	TC11	Transnational Astronomy: Science Diplomacy on the Verge (Setthawut Thongmee)
15:30 March 28	Lab 1	TC12	Evaluating impact of astronomy outreach and communication (Ramasamy Venugopal, Kodai Fukushima)

Using Multimedia, Social Media, Immersive Environments and other Technologies for Public Engagement with Astronomy

Time	Room	Number	Title & Presenter
14:15 March 26	Dome	TD1	IFSV's Initiatives for building a Fulldome Creators' Community (Takumi Inoue)
14:30 March 26	Dome	TD2	Free Planetarium materials from ESO and ESA/Hubble (Lars Lindberg Christensen, Luis Calçada)
14:45 March 26	Dome	TD3	The Planetarium Show of the Future (Mark SubbaRao)
15:00 March 26	Dome	TD4	Mobile on the road with Data to Dome and Digistar 6 (Jaap Vreeling, Marieke Baan, David Redeker)
15:15 March 26	Dome	TD5	4-D Digital Universe to You! (Hinako Fukushi, Eiichiro Kokubo, Hirotaka Nakayama, Satoki Hasegawa, Tsunehiko Kato)
15:30 March 26	Dome	TD6	Creative Planetarium Experiences Provided by a Local Volunteer Association (Terada Hiroyuki, Shinji Toyomasu, Shusaku Tago)
16:15 March 26	Dome	TD7	Integrated Activities in the High Energy Astrophysics Domain (AHEAD) Project (Dickens Tracey, AHEAD/ T.Matsopoulos/ESO)
16:30 March 26	Dome	TD8	Perceiving the Universe: Walk on the dark side (Xusa Moya Lucas, Amelia Ortiz -Gil, Monica Allardo, Mariana Lanzara, JC Guirado)
16:45 March 26	Dome	TD9	Effect of learning projection on planetarium (Iizuka Reiko)
17:00 March 26	Dome	TD10	Far from reality: scientific visualization (Stefania Varano)
17:15 March 26	Dome	TD11	2D Cartoon Characters as Science Showmakers (Mikhail Loktionov, Y.Loktionova)

17:30 March 26	Dome	TD12	Travelers of the Light: a transmedia experience for the dissemination and education of science (Beatriz Garcia, Roberto BANDIERA, Hugo Fernando JIMENEZ,. Enrique Javier DÍAZ)
17:45 March 26	Dome	TD13	Stars for everyone - Practice of “Hospital is a Planetarium” (Mariko Takahashi)

Inclusion, Diversity, Equity and Empathy in Communicating Astronomy			
Time	Room	Number	Title & Presenter
14:15 March 25	Sci. Hall	TE1	Using Astronomy as a tool to promote Gender equality in STEM (Olayinka Fagbemiro, Timi Ekubo)
14:30 March 25	Sci. Hall	TE2	Astronomy for a better world-a powerful slogan, a life philosophy, a feasible choice (Silvia Casu, Alessia Luca, Paolo Soletta, Sabrina Milia)
14:45 March 25	Sci. Hall	TE3	Different Ways to Increase the Diversity in the Audiences for Informal Astronomy Activities to Include Underserved and Underrepresented groups (Donald Lubowich)
15:00 March 25	Sci. Hall	TE4	Challenges and Strategies for Developing Inclusive Outreach Using Buku Mentari Project (Ricka Tanzilla, Ratnawati and Yudhiakto Pramudya)
15:15 March 25	Sci. Hall	TE5	Engaging the public with astronomy through multisensory activities (Frederic Pitout, Emeline Maraval)
15:30 March 25	Sci. Hall	TE6	Interculturality: a general framework for communicating astronomy to the public (Alejandro Martín López)
14:15 March 26	Lab 2	TE7	Working Together to Bring Science to the Community (Cordelia Scott, Dr V. Mason)
14:30 March 26	Lab 2	TE8	RAS200 engaging diverse partners and diverse audiences with astronomy and geophysics (Sheila Kanani, Steve Miller and RAS200 steering group)
14:45 March 26	Lab 2	TE9	Astronomy Collaboration (Reuel Norman Marigza)

Current Challenges in Astronomy Communication Fundraising & how to gain traction on a shoestring budget			
Time	Room	Number	Title & Presenter
16:15 March 26	Lab 2	TF1	TUIMP: The Universe In My Pocket. Free astronomical booklets in all languages. (Grazyna Stasinska)
16:30 March 26	Lab 2	TF2	How to set up a planetarium on a shoestring: The case of the ESO Supernova (Lars Lindberg Christensen, Oana Sandu & Tania Johnston)
16:45 March 26	Lab 2	TF3	How an MPV gain Traction for A National Observatory of Indonesia: Sharing the Experience (Emanuel Sungging Mumpuni, Tiar Dani, Rhorom Priyatikanto, Muhamad Zamzam Nurzaman, Agustinus Gunawan Admiranto, Farahhati Mumtahana, Christine Widianingrum, Clara Yono Yatini, Nana Suryana, Heri Sutastio)
17:00 March 26	Lab 2	TF4	When Social effort overcomes Funding constraints (João Retrê, José Afonso, Sérgio Pereira, Ana Alves)
17:15 March 26	Lab 2	TF5	Promotion of Star Observation with Private Sector in Japan (Fumiki Onoma)

Media's Role in Astronomy Communication			
Time	Room	Number	Title & Presenter
14:15 March 25	Lab 2	TM1	Astronews: scientific journalism in developing countries (Thiago Goncalves, "Patricia Figueiro Spinelli, Gustavo Rojas, Alan Alves-Brito, Cassio Barbosa, Eduardo M. Pereira, Douglas Martins, Catarina V. Lencioni
14:30 March 25	Lab 2	TM2	The roles of print media and social media in Communicating and Increasing Enthusiasm in Astronomy for school children and theirs challenges in Thailand (Sulisa Chariyalertsak)
14:45 March 25	Lab 2	TM3	33 years of Astronomía Magazine in Spain (Ángel Gómez Roldán)
15:00 March 25	Lab 2	TM4	27 years of astronomy in newspapers (Durruty Jesús de Alba Martínez)
15:15 March 25	Lab 2	TM5	Astronomical news stories in two largest Japanese newspapers (Osamu Nakamura)
15:30 March 25	Lab 2	TM6	Learning Astronomy in 60 Seconds (Alfean Aziz)

Best Practices in Public Outreach Engaging with students and teachers outside the classroom			
Time	Room	Number	Title & Presenter
16:15 March 25	Sci. Hall	TS1	Four Years of Online Engagement with UK Schools: The 'SETI Cipher Challenge' (Sadie Jones)
16:30 March 25	Sci. Hall	TS2	Galaxy School ("Ginga-Gakko")—The Longest-Established Astronomical Research Experience Program for High School Students in Japan (Fumiya Sakai, Daisuke Taniguchi, Shunsuke Yusa, Takashi Miyata, Yuzuru Yoshii, Yuki Mori, Naoto Kobayashi, and Science Station)
16:45 March 25	Sci. Hall	TS3	Representing the Universe: a hands-on challenge (Stefania Varano, Sara Ricciardi)
17:00 March 25	Sci. Hall	TS4	Thai Astronomical Conference (student session) TACs (Pranita Sappankum, Mr.Korakamon Sriboonrueang)
17:15 March 25	Sci. Hall	TS5	Strategic outreach and public engagement in a university context (Jen Gupta)
17:30 March 25	Sci. Hall	TS6	Inspiring local students to pursue observatory STEM careers (Peter Michaud, Janice Harvey)
17:45 March 25	Sci. Hall	TS7	Let's celebrate "Zero Shadow Day"! (Dhurde Samir, Arvind Paranjpye, Alok Mandavgane, Sonal Thorve, Niruj Mohan Ramanujam)
15:30 March 26	Lab 2	TS8	Engaging the Public Through Viaje al Universo. (Fernanda Urrutia, Peter Michaud-Manuel Paredes-Dalma Valenzuela)

Multimedia, Social Media, Immersive Environments, and other Technologies			
Time	Room	Number	Title & Presenter
16:15 March 26	Lab 1	TT1	AstroGPS – mobile app and portal with all events in Poland about astronomy and space (Krzysztof Czart, Tomasz Brudziński, Paweł Z. Grochowalski, Agnieszka Nowak, Dawid Pałka, Krzysztof Pęcek)

16:30 March 26	Lab 1	TT2	Reddit Astronomy: Outreach on the Front Page of the Internet (Yvette Cendes)
16:45 March 26	Lab 1	TT3	Informal and Outreach uses of Publicly Accessible Robotic Telescopes (Michael Fitzgerald)
17:00 March 26	Lab 1	TT4	An Innovative Web Site for Astronomy Outreach (Chris Impey, Alexander Danehy)
17:15 March 26	Lab 1	TT5	Comics with augmented reality AR: A didactic strategy for teaching Space Sciences through interactive content and augmented reality (Marcela Morillo, MSc. Tanya Jarrin)
17:30 March 26	Lab 1	TT6	Accessing the inaccessible: Using VR for astronomy (Mathieu Isidro, William Garnier, Joe Diamond)
17:45 March 26	Lab 1	TT7	Digitizing Galileo: How new technologies help communicate old ideas (Morgan Aronson)
17:30 March 26	Lab 2	TT8	Social Media: Luring people into science (Pamela Gay, Avivah Yamani)

Best Practices in Outreach
Unconventional outreach When science meets art

Time	Room	Number	Title & Presenter
16:15 March 26	Lab 3	TU1	Communicating Astronomy through Music (Jose Salgado)
16:30 March 26	Lab 3	TU2	Diary of a Martian Beekeeper- a true collaboration between art and space (Niamh Shaw, Clair McSweeny, Stephanie O'Neill, Cathy Foley, Sarah Baxter, Aoife White, Aine O'Hara, Bill Woodland, Ger Clancy, Lorraine Conroy, Juan de Dalmau, Aidan Cowley, Jules Grandsire)
16:45 March 26	Lab 3	TU3	Love letter to a space rock (Cintia Duran)
17:00 March 26	Lab 3	TU4	Convey the Pleasure of Astronomy to People Interested in History (Harufumi Tamazawa, Kunihisa Kabumoto, Koichi Wada)
17:15 March 26	Lab 3	TU5	An attempt to look for new possibilities of astronomy communication through "Chado (the way of tea)" (Naoko Asami)
17:30 March 26	Lab 3	TU6	The Business of Astronomy-Engaging MBA Students (Robert Hollow, James Green, George Hobbs)
17:45 March 26	Lab 3	TU7	Teaching Astronomy Using Re-lyric Nursery Rhymes (Jerald Karl Angelo Barranta, Sarrah Louise Amando)

Best Practices in Outreach
Outreach in visitor centers, museums, and planetariums

Time	Room	Number	Title & Presenter
16:15 March 25	Lab 3	TV1	Three generations of public observing programs in the history of public observatories, and the coming 4th generation. (Takashi MIyamoto)
16:30 March 25	Lab 3	TV2	Public outreach activities using Mobile Planetarium and telecopes for launching first satellite in Mongolia (Tsolmon Renchin, Tamir Baatarjav)
16:45 March 25	Lab 3	TV3	Role of the Malaysian Orang Asli Crafts Museum in Communicating Indigenous Astronomy (Nurul Fatini Jaafar, Anizam Mat Tahar)

17:00 March 25	Lab 3	TV4	Using Social Media for Public Engagement with Astronomy in Taipei Astronomical Museum (Chia-Ling Hu)
17:15 March 25	Lab 3	TV5	Maximize the Minimum Facility: Strategy for Gaining Public Engagement at Bosscha Observatory (Fera Gustina Purwati, Sahlan Ramadhan, Emye T. Handhita, Wildan Hidayat)
17:30 March 25	Lab 3	TV6	The Present Situation of Public Observatories in Japan, and Activities of Japan Public Observatory Society (JAPOS) (Kazuya Ayani, Members of Steering Committee of Japan Public Observatory Society(JAPOS))
17:45 March 25	Lab 3	TV7	Communicating Astronomy in the Science Live Show UNIVERSE (Kazuhisa Kamegai)
15:15 March 26	Lab 2	TV8	Astronomy Outreach - Science Theatre Shows (Elizabeth Avery)

Astronomy Communication for a Better World:
Global networking in international campaigns;
Astronomy communication for Asian Pacific development;
Astronomy communication in the developing world

Time	Room	Number	Title & Presenter
16:15 March 25	Lab 2	TW1	East Africa ROAD and NOC Ethiopia Activities (Alemiye Yacob)
16:30 March 25	Lab 2	TW2	GalileoMobile 10th Anniversary: Lessons Learnt from a Decade Sharing Astronomy across the World in a Spirit of Inclusion, Sustainability, and Cultural Exchange (Fabio Del Sordo, The GalileoMobile Collaboration (Sandra Benitez Herrera, Felipe Carrelli, Francesca Fragkoudi, Ana Paula Germano, Nuno Gomes, Diego Torres Machado, Evangelia Ntormousi, Eduardo Penteado, Jorge Rivero Gonzalez, Marja Seidel, Patricia Spinelli, and Mayte Vasquez)
16:45 March 25	Lab 2	TW3	Astronomy communication importance for the developing world (Rosa Doran, Joana Latas)
17:00 March 25	Lab 2	TW4	South East Asia Astronomy Network, from familiar friend to International Collaboration (Supaluck Chanthawan)
17:15 March 25	Lab 2	TW5	Astronomy for peace: the Columba-Hypatia project (Frantzeska Fragkoudi, Columba-Hypatia team)
17:30 March 25	Lab 2	TW6	Astronomy Communication for a Better World: Teen Astronomy Cafés (Connie Walker)
17:45 March 25	Lab 2	TW7	Using both English and Kiswahili to Communicate Astronomy to the Public in Tanzania (Noorali Jiwaji)
15:00 March 26	Lab 2	TW8	Astronomy for everyone (Hamid Hamidani)

Best Practices in Outreach
Engaging children and students

Time	Room	Number	Title & Presenter
14:15 March 28	Sci. Hall	TY1	EU Space Awareness: Lessons Learnt from an Educational and Outreach Project to Inspire the Next Generation of Space Explorers (Wouter Schrier George Miley, Pedro Russo, Jorge Rivero González and Audrey Korczynska on behalf of EU Space Awareness consortium.)

14:30 March 28	Sci. Hall	TY2	Mitaka Taiyokei Walk: a scaled solar system over a whole city (Toshihiro Handa, Hidehiko Agata, Asako Ohasa, Suguru Yoshida)
14:45 March 28	Sci. Hall	TY3	The Lord of Rings: the mysterious case of the stolen rings - a live astronomical role-playing game for kids (Stefano Sandrelli, Simona Romaniello, Francesca Cavallotti, Alessandra Zaino)
15:00 March 28	Sci. Hall	TY4	Implementation of national level experiential learning astronomy outreach practices in developing countries like India (Vikram Londhe)
15:15 March 28	Sci. Hall	TY5	Let's Make Our Butterfly Diagram! (Kamobe Mai, Takako T Ishii, Keisuke Nishida, Kenichi Otsuji, Harufumi Tamazawa, Goichi Kimura, Miwako Kadota, Kazunari Shibata, Daisaku Nogami, Tomoya Seki, Keiji Yasumura, Masaoki Hagino)
15:30 March 28	Sci. Hall	TY6	'Robots looking at the sky', opening professional telescopes to students (Nayra Rodriguez Eugenio)

Best Practices in Outreach Citizens Science			
Time	Room	Number	Title & Presenter
14:15 March 26	Sci. Hall	TZ1	Astronomical Phenomena Observation Campaigns for general public conducted by NAOJ - General public can participate in citizen astronomy easily with use of existing Internet services - (Masaharu Ishizaki, Hidehiko Agata, NAOJ Campaign Team)
14:30 March 26	Sci. Hall	TZ2	Exploring the Universe with the real observational data of the Subaru Telescope (Kumiko Usuda-Sato, Hidehiko Agata, Hideaki Fujiwara, Takashi Horiuchi, Michitaro Koike, Satoshi Miyazaki, Seiichiro Naito, Masayuki Tanaka, Kentaro Yaji, and Hitoshi Yamaoka (NAOJ)
14:45 March 26	Sci. Hall	TZ3	Moon and Planets Exploration Outreach in IT Era - 20 years' Challenge in The Moon Station (Junya Terazono, Seiichi Sakamoto, Makoto Yoshikawa, Naoki Wakabayashi, Junichi Watanabe, The Moon Station operation team)
15:00 March 26	Sci. Hall	TZ4	Sunbeam, Sun@Night and Exploring Light & Dark: public engagement through solar imagery (Robert Walsh)
15:15 March 26	Sci. Hall	TZ5	A citizen science exploration of the X-ray transient and variable sky (Stefano Sandrelli, Andrea Belfiore; Andrea De Luca; Andrea Tiengo; Daniele D'Agostino; Hannelore Hammerle; Ruben Salvaterra; Sonja Kreykenbohm)
15:30 March 26	Sci. Hall	TZ6	"Bridge across the sky": Matching system of citizens and potential telescope/local instructors of astronomy (Taiga Hamura)

Workshops			
Time	Room	Number	Title & Presenter
10:00 March 27	Lab 1	W1	Podcasting 102: It's about more than audio (Avivah Yamani. Co-author: Pamela L. Gay)

10:00 March 27	Lab 2	W2	Astronomy Communication for a Better World: A Workshop on the Quality Lighting Teaching Kit (Connie Walker. Co-author: Stephen M. Pompea)
10:00 March 27	Lab 3	W3	Organizing Frameworks for Communicating Science in Large, International Science Collaborations (Gordon Squires. Co-authors: Janesse Brewer, Sandra Dawson, Wako Aoki, Mitch Aiken, Eric Chisholm, Samir Dhurde, Lisa Hunter, Yiping Wang)
10:00 March 27	Sci. Hall 1	W4	The Tactile Universe: accessible astrophysics public engagement with the vision impaired community (Jen Gupta. Co-authors: Nic Bonne, Coleman Krawczyk, Karen Masters)
10:00 March 27	Sci. Hall 2	W5	Tinkering with the Universe: a primary school project (Sara Ricciardi. Co-authors: Fabrizio Villa, Stefano Rini)
10:00 March 27	Sci. Hall 3	W6	Science Under Threat: Communicating Astronomy in the Age of Misinformation (Chris Impey)
12:00 March 27	Lab 1	W7	Elevator Pitches and Debunking Pseudoscience for Asia and Beyond (Thilina Heenatigala. Co-authors: Avivah Yamani, Lina Canas, Yukiko Shibata)
12:00 March 27	Lab 2	W8	Astronomy and it's Digital Sex Appeal: The art behind making people fall in love through social networks (Marggie Rodríguez Riaza. Co-author: Ángela Pérez)
12:00 March 27	Lab 3	W9	Encouraging Diversity Through Art-Based Approaches to Astronomy (Stephen Pompea)
12:00 March 27	Sci. Hall 1	W10	IAU100 Years Co-creation Workshop: Get Involved! (Jorge Rivero Gonzalez)
12:00 March 27	Sci. Hall 2	W11	Astronomy for Inclusion: building network and sharing hands-on resources (Kumiko Usuda-Sato. Co-authors: Shin Mineshige, Lina Canas)
12:00 March 27	Sci. Hall 3	W12	Preparing a public engagement activity as a team (Guillem Anglada-Escude. Co-author: Oana Sandu)
14:30 March 27	Lab 1	W13	Media interviews, do's and dont's (David Redeker. Co-authors: Marieke Baan, Jaap Vreeling)
14:30 March 27	Lab 2	W14	The relevance of big research infrastructures for non-hosting countries (Iris Nijman. Co-author: Eleonora Ferroni, Istituto Nazionale di Astrofisica)
14:30 March 27	Lab 3	W15	Experience design involving astronomical observation - step by step workshop (Pablo Alvarez. Co-authors: Loreto Navarrete, Felipe Ramos)
14:30 March 27	Sci. Hall 1	W16	From Earth to the Edge of the Universe: Mitaka software as a tool for education and communication (Tsunehiko Kato. Co-authors: Hidehiko Agata, Kumiko Usuda -Sato, Lina Canas, Seiichiro Naito)
14:30 March 27	Sci. Hall 2	W17	Major Reach: Immersing the Public in the Live Observing Experience (Robert Hollow. Co-author: James Green)
14:30 March 27	Sci. Hall 3	W18	Communicating Astronomy through Comics (Marja Seidel)
16:30 March 27	Lab 1	W19	The Presenter Network - setting up a hub and running your first session. (Elizabeth Avery)

16:30 March 27	Lab 2	W20	What's in it for me - Bridges among big projects and local communities (Saeko Hayashi)
16:30 March 27	Lab 3	WR1	Popular Workshop Re-run 1
16:30 March 27	Sci. Hall 1	WR2	Popular Workshop Re-run 2
16:30 March 27	Sci. Hall 2	WR3	Popular Workshop Re-run 3
16:30 March 27	Sci. Hall 3	WR4	Popular Workshop Re-run 4

Poster Presentations

Poster Session 1 (Day 1, Saturday, March 24 - Day 3, Monday, March 26)

No.	Title	Presenter
PA1	Exploring Multisensory and Multidisciplinary Astronomy Outreach	Alexander Gagliano
PA2	Planets in a room	Livia Giacomini
PA3	Astronomical and meteorological observations at Nagashima-Aiseien, a Hansen's disease satanorium	Hiroaki Isobe
PA4	Astronomy with STEM Education For Female Children	Vyjayanthi Mala Perumal
PA5	A Study on Sundials of Ancient Odisha	Himansu Sekhar Fatesingh
PA6	Communicating Astronomy with the Public 2018: efforts on bringing together the international astronomy communication community	Lina Canas
PA7	Astronomy for Juvenile Delinquents	Mario De Leo-Winkler
PA8	Communicating the Universe to Local Communities	Rosa Doran
PA9	RTSRE and ASTROCOM: Building a community	Michael Fitzgerald
PA10	Astronomical communication activities through business	Tomoya Nagai
PA11	Communicating astronomy with the public: The Regent University College of Science and Technology community in Ghana	Paul Nyarko-mensah
PA12	Collecting Materials to Translate for Astronomy Education and Outreach in Global Communities	Gabrielle Simard
PA13	Astronomy for Development: Communicating how Astronomy is contributing to sustainable development	Ramasamy Venugopal
PA14	Getting the Science Write: The Science Fiction Writer as Amateur Science Communicator	Bronwyn Lovell
PA15	Astrochannel, the Internet TV of the Italian National Institute for Astrophysics	Marco Malaspina
PA16	Management and public relations in the multi-organization cooperation research projects in particle, nuclear physics, astrophysics fields	Tomoya Nagai
PA17	The interactive planetarium show and the trend of what astronomical topics citizens are interested in.	Kyohei Ando
PA18	Workshop - Newsletters: A Powerful Tool For Public Engagement Without A Budget	Michael de Korte
PA19	The Iron Planetarian	Sumito Hirota
PA20	Astrojots - Explaining space and its exploration with cartoons	Geraint Jones
PA21	Science Live Show UNIVERSE at CAP2018	Kazuhisa Kamegai
PA22	#WAWUA - Why Astronomers Want to Use ALMA	Nicolás Lira Turpaud
PA23	Cape Town's Iziko Planetarium & Digital Dome: a cutting edge platform for big-data science & public engagement at 360 degrees	Lucia Marchetti
PA24	An Astronomy Student became YouTuber!?: YouTube is an effective tool for astronomy communication	Mayuko Mori
PA25	Astronomy in Japanese Animation Movie "Your Name" (Kimi No Na wa)	Pisit Nitiyanant
PA26	"Obsesión por el Cielo" – a Weekly Astronomy Radio Show and Podcast	Pedro Antonio Valdes-Sada

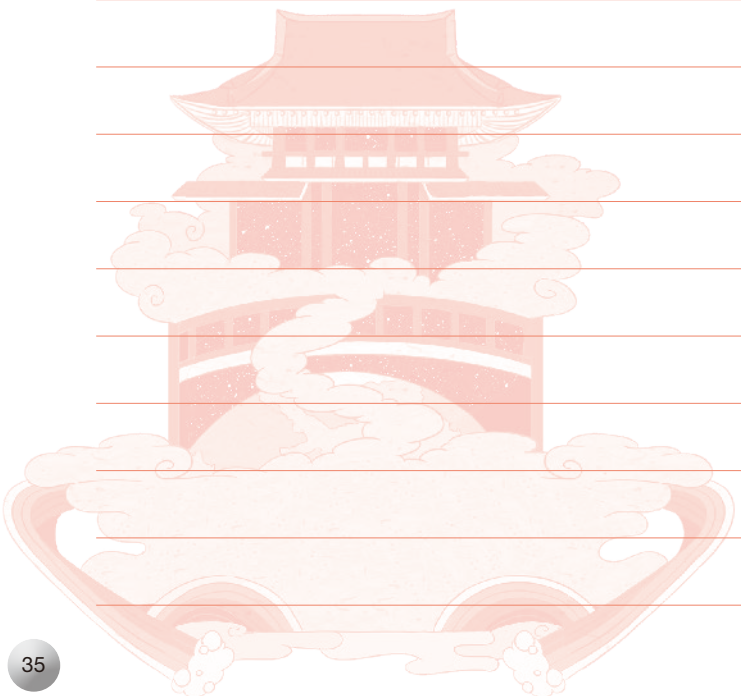
No.	Title	Presenter
PA27	A Planeterrella in the dome: unveiling the polar lights	Rodrigo Alvarez
PA28	Project Sugo-Haya: Expanding the Understanding of Asteroid Explorer Hayabusa 2 by Playing Traditional Japanese Game “Sugo-Roku”	Misato Kosuge
PA29	Introduction of Japanese Society for Education and Popularization of Astronomy	Hidehiko Agata
PA30	Himastron ITB’s current activities in popularizing astronomy	Shinta Nur Amalina
PA31	First Astrogeology Club in Indonesia, An Unique Effort to Learn “Non Earth” Geology	Donatus Hendra Amijaya
PA32	Strengthening Astronomical Knowledge in High School Students in Indonesia	Aprilia Aprilia
PA33	Communicating Astronomy with students	Thierry Botti
PA34	Asteroid Day: a vehicle for raising public awareness of astronomy and space exploration among primary students in Ireland	Adriana Cardinot
PA35	Amateur Activities and Public Outreach by Japan Amateur Astronomers Association	Keiko Chaki
PA36	Long Steady Voluntary Works by Toyonaka Astronomical Association	Keiko Chaki
PA37	Stargazing Families at Regional Observatory for the Public Nakhon Ratchasima, Thailand.	Smanchan Chandaiam
PA38	Introduction of Education and Public Outreach Activity in ASIAA -- IAA Quarterly and Searching for Extraterrestrial Life Website	Mei-Yin Chou
PA39	Astronomy Communication as Conversation	Pecier Paul Decierdo
PA40	Transit of Mercury in India - a crowd-sourced, large-scale observational outreach campaign	Samir Dhurde
PA41	Community Astronomy Education: Eclipse as Opportunity in Middle	Donovan Domingue
PA42	“An Astronomer In The Classroom program” at Observatoire de Paris	Alain Doressoundiram
PA43	Learning Astronomy Hands-on way with Samant’s Instruments	Himansu Sekhar Fatesingh
PA44	Samant’s Instruments : An Effective Tool for Astronomy Communication	Himansu Sekhar Fatesingh
PA45	IAU astroEDU: an open-access platform for peer-reviewed astronomy education activities	Michael Fitzgerald
PA46	Deliver astronomers to a lot of classrooms! -The “Fureai (Friendly) Astronomy” project, NAOJ -	Tokiko Fujita
PA47	Think about science and innovate with design	Beatriz Garcia
PA48	Astronomy Educational Outreach Program in Nepal.	Suman Gautam
PA49	Regional Observatory for the Public, Songkhla and Astronomical projects work for teaching high school Astronomy	Torik Hengpiya
PA50	Learning strategy of astronomy education using Lessons Learned System design	Keitaro Hidaka
PA51	Observational experience program for high school students at the VERA Ishigaki-jima station	Tomoya Hirota
PA52	Asteroid Searching Projects with the Public in Japan	Hiroyuki Naito
PA53	Outreach, Media and Education Strategy for the Solar Eclipse of 2019 in Chile	Camila Ibarlucea
PA54	Attracting the Public by Landscape Astrophotography	Akiko Ikeda
PA55	Annular Solar Eclipse Limit Line Project in Japan in 2012	Takeshi Inoue
PA56	NAOJ Mitaka Regular Stargazing Parties	Satoshi Kikuta

Poster Session 2 (Day 4, Tuesday, March 27 - Day 5, Wednesday, March 28)

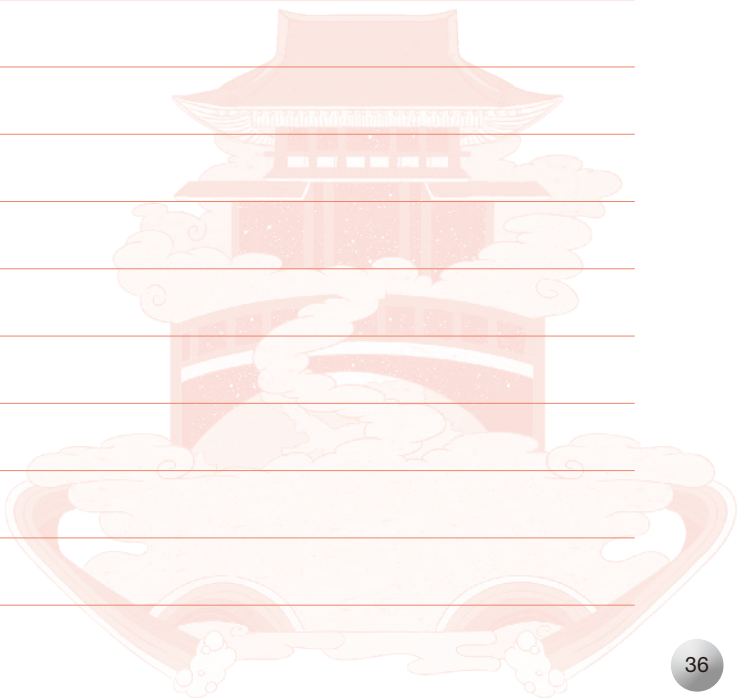
No.	Title	Presenter
PB1	Introduction of science poster “Diagram of Our Universe (Uchu-zu)”	Jun Kosaka
PB2	Measurement of Night Sky Brightness in Japan with a Mobile Phone App	Kazuhisa Kamegai
PB3	NARIT’s Strategies on Astronomy Communication for the Public	Jullada Kaosaard
PB4	NARIT astrophotography training workshop for amateur astronomers	supaerk karuehanon
PB5	Stargazing Events for local children designed by Kudan Secondary School	Shio Kawagoe
PB6	2017 solar eclipse from XIX Century observatory	Alejandro Marquez
PB7	Student Astronomical Observation Contest	Hyunjin Kim
PB8	How fast the stars move! How do we let people know that?	Kaoru KIMURA
PB9	“Nagano Prefecture is the Astro-Prefecture”	Kenzo Kinugasa
PB10	Useful astronomical activities at boarding school for popularization of astronomy	Tatsuhiko Kitagawa
PB11	About the Hoshimiishi (star watching stone) of the Yaeyama Islands in the late 17th century.	Jiro Konishi
PB12	Science pub within local culture — An interactive communication event in Japan	Shinjirou Kouzuma
PB13	New challenges for public outreach by Astrobiology Center of Japan	Nobuhiko Kusakabe
PB14	How learning about Mars can help public understand the Earth better	Jasmina Lazendic-Galloway
PB15	Cosmology at Buddhism temples: a public dialogue in science and religion through astronomy	Haruka Makizawa
PB16	The Ainu Constellations	Yamauchi Megumi
PB17	The role, problems and prospects of Astronomy Clubs at Secondary School in Malaysia	Nurul Husna Mohammad Bokhari
PB18	Latin American Olympics of Astronomy and Astronautics (OLAA)	Marcela Morillo
PB19	Technology Engagement for Public Astronomy towards Citizen Science	Ahmat Murtza Muhammad Hafez
PB20	Developing astronomy awareness in Sabah, Northern Borneo of Malaysia through Astrophotography	Muhammad Luqmanul Muharam
PB21	Solar Analemma of Near Equator Partial Solar Eclipse 2016	Farahhati Mumtahana
PB22	The TENPLA Project : Communicating Astronomy in the urban life –The activity of Roppongi Tenmon Club	Seiichiro Naito
PB23	Astronomical Popularization Activities Using Handmade Crafts Incorporating Knowledge of Astronomy.	Naoko Ohe
PB24	Astronomy is Our Culture; “Starry Scape Photo Collections” for Outreach of Astronomy	Kouji Ohnishi
PB25	Aiming the Mooon in Jules Verne’s way: astrodynamics in a spreadsheet	João Pereira
PB26	Practice report of astronomy spread education in the board of domestic ferry	Satoshi Funada
PB27	Kamus Astro Beta Version: The Indonesian Astronomical Glossary	Ratna Satyaningsih
PB28	Leiden Observatory - Engaging the public with Astronomy using a historic scientific facility	Naor Scheinowitz
PB29	A Science and Tourism Project in the Bosque Fray Jorge National Park, Chile	Juan Seguel
PB30	Stargazing workshop by the university students in Okinawa	Reo Shinagawa

No.	Title	Presenter
PB31	Astronomy Communication and Popularisation Development with Limited Resources and Information	Ronny Syamara
PB32	The TENPLA Project : Communicating Astronomy to the Public in Japan	Naohiro Takanashi
PB33	The Activities of Science Station in Japan	Daisuke Taniguchi
PB34	The assessment of fun and play visiting activity for young children	Akihiko Tomita
PB35	Astronomy Communications with Students using Metropolitan Telescopes	Yohko Tsuboi
PB36	A report of an astronomical outreach event for high school students “What if you could become an astronomer in a week? (MoshiTen)”	Kohji Tsumura
PB37	Astronomy Communication for a Better World: Globe at Night Citizen-Science	Connie Walker
PB38	Nationwide lecture activity during Tanabata period	Hitoshi Yamaoka
PB39	Creating SKA visitor centre experiences	Robert Cumming
PB40	Toward an establishment of a global curriculum of astronomy as a comprehensive science	Shigeyuki Karino
PB41	Practical tools for “Making the Case” for Workforce, Education, Public Outreach & Communication	Gordon Squires
PB42	Popularization of Planetary Sciences in the context of Integrated Earth Science System in Indonesia	Hakim L. Malasan
PB43	Observing the sky, understanding the Earth: an Earth Sciences Astronomy-related Educational Package for high school teachers and students	Andrea Bernagozzi
PB44	Maunakea Scholars Modules: Bringing Real-World Astronomy to Science Classrooms	Kelly Blumenthal
PB45	Earth & Space - A resource for Primary Education developed by the Ogden Trust	Mark Gallaway
PB46	Journey through the Universe - 14 Years of Communicating Astronomy to the Public	Janice Harvey
PB47	Science education support using original astronomical teaching tools and teaching research on elementary astronomy in a small public observatory, HAAO.	Hiromi Funakoshi
PB48	Bringing the Universe to the World	Chris Impey
PB49	Introduction on Astronomical Training for Teachers	Youngin Joh
PB50	Maunakea Scholars: Cultivating Student Scientists	Mary Beth Laychak
PB51	ALMA at School – Radio Astronomy Manual – Teachers Workshop	Nicolas Lira Turpaud
PB52	GROWTHing the Education: Summaries and Highlights of Education Efforts from the GROWTH-Taiwan	Chow-Choong Ngeow
PB53	ESERO Romania: Communicating Astronomy and Astronautics with the Primary and Secondary Educational Community in Romania	Virgiliu Pop
PB54	The NARIT Astronomical Teacher Training and Workshop	Thanakrit Santikunaporn
PB55	High School Research Activities on Astronomy in Collaboration with Public Observatories.	Takafumi Yamada

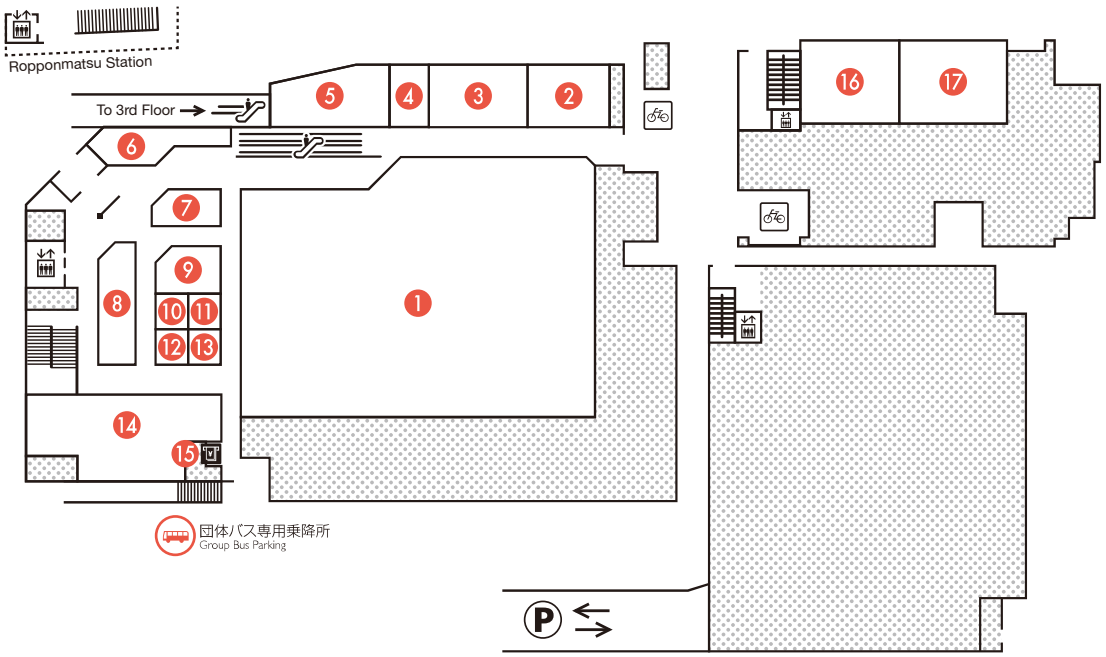
NOTES



NOTES

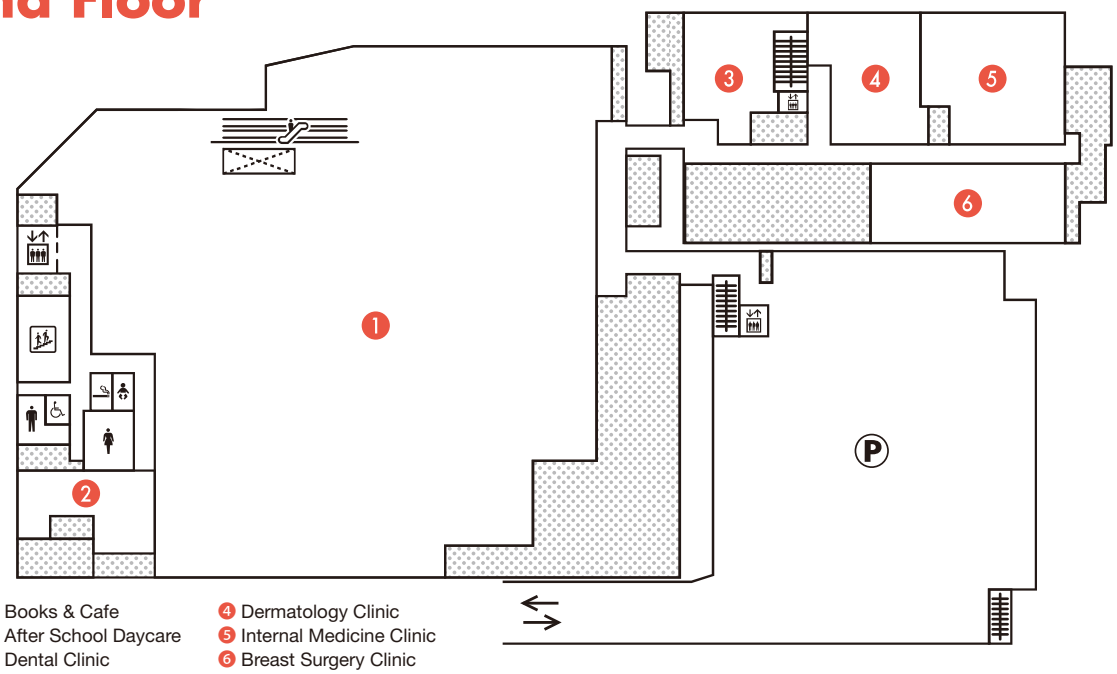


1st Floor



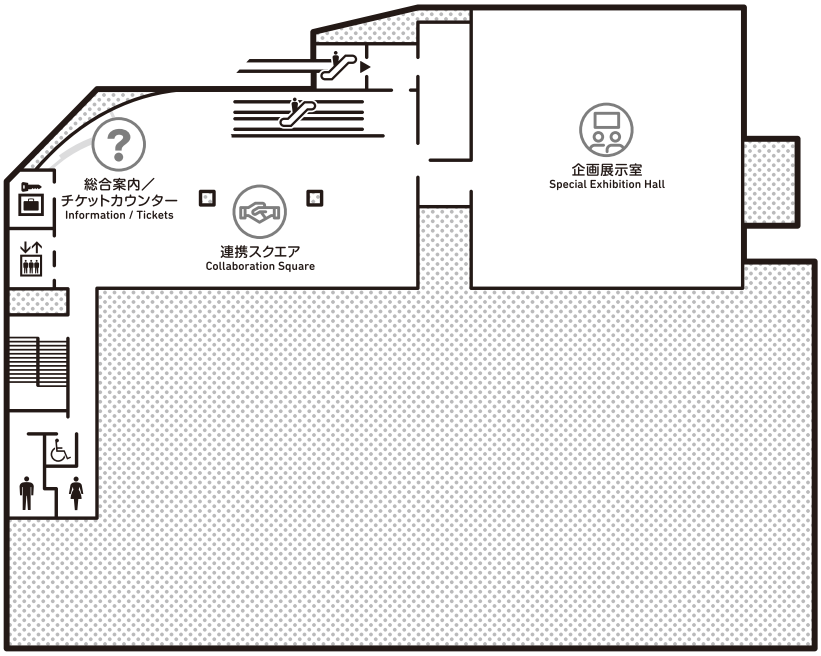
1. Supermarket
2. Japanese Bistro
3. Pasta Restaurant
4. Dry Cleaner
5. Bakery
6. Flower Shop
7. Cake Shop
8. Vegetable & Fruits
9. Japanese Traditional Sweets
10. Tofu & Japanese Deli
11. Pizza
12. Fish & Seafood Products
13. Fried Chicken
14. Drugstore
15. ATM
16. Pharmacy
17. Cafe

2nd Floor

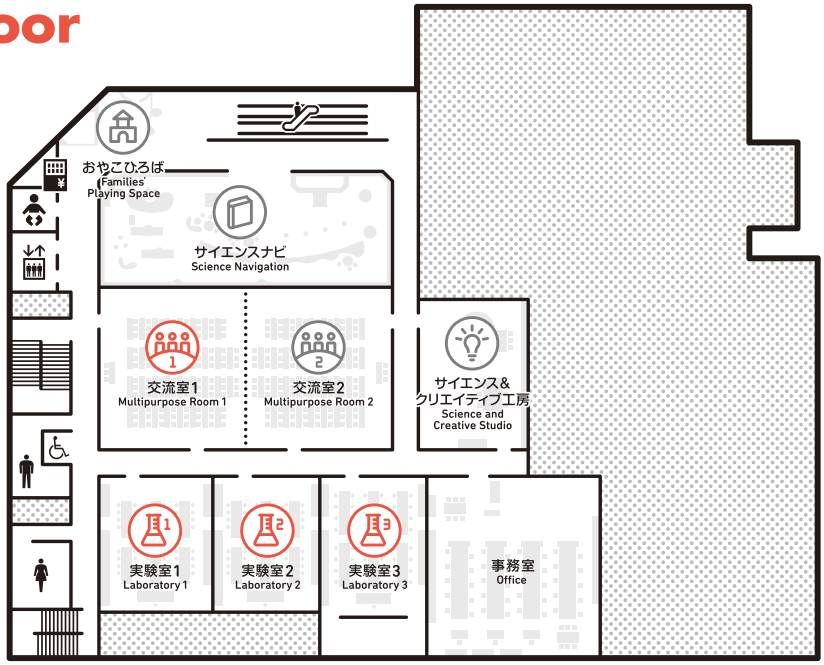


1. Books & Cafe
2. After School Daycare
3. Dental Clinic
4. Dermatology Clinic
5. Internal Medicine Clinic
6. Breast Surgery Clinic

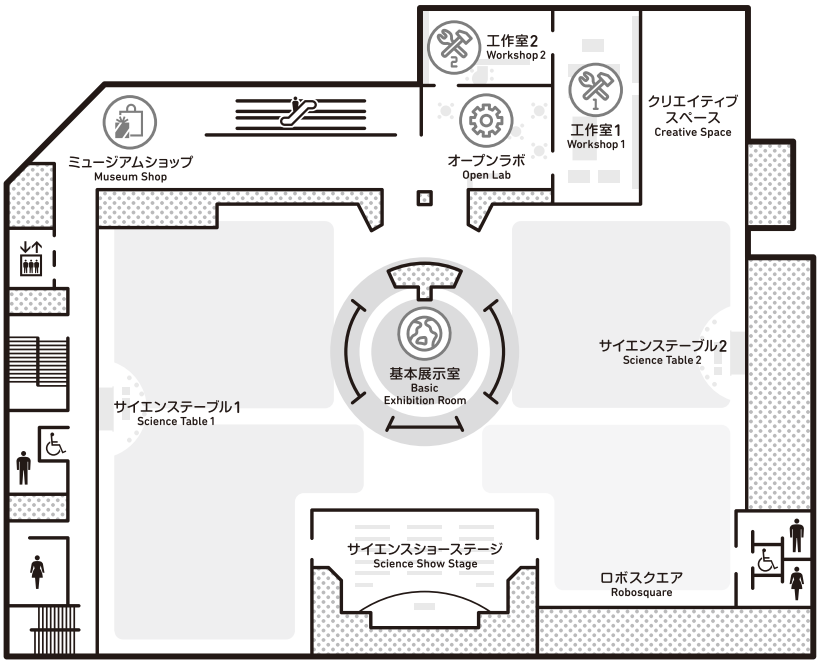
3rd Floor



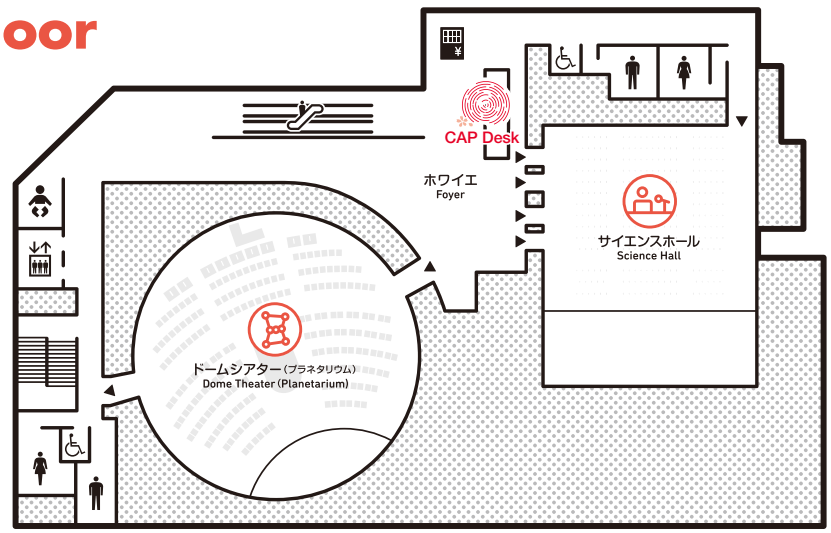
4th Floor



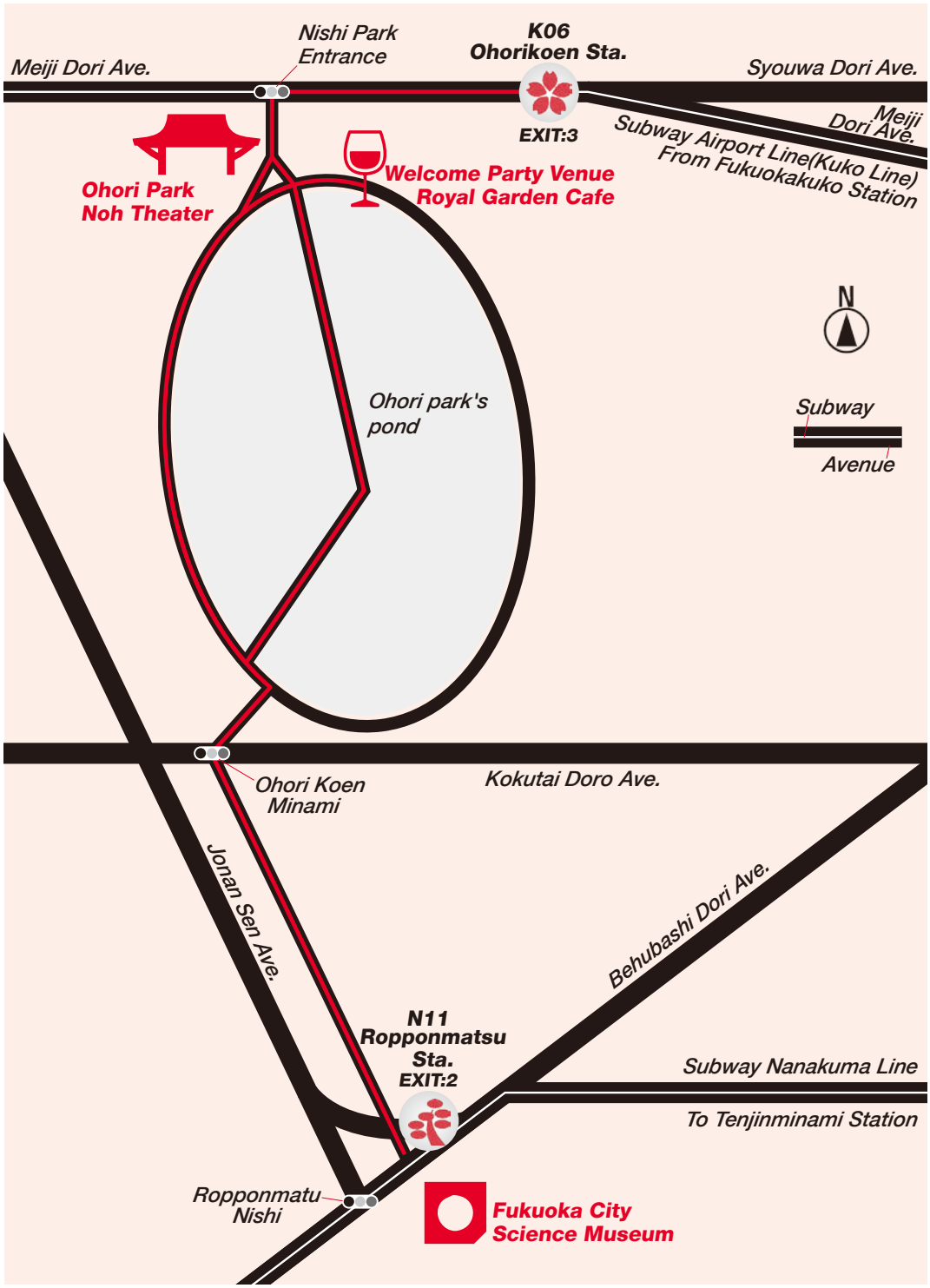
5th Floor



6th Floor

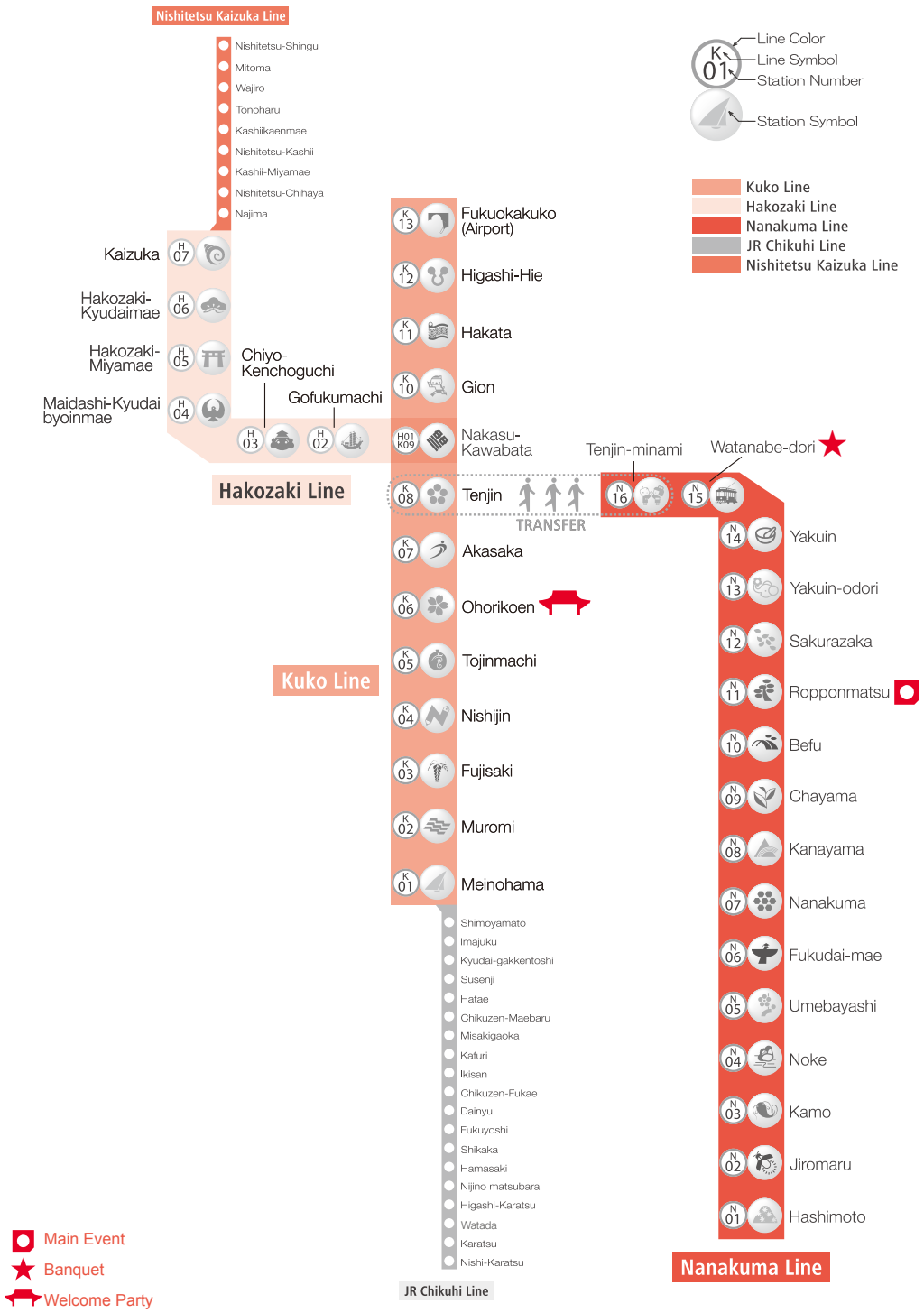


Route to Welcome Event



Travel time via subway is approximately 30 min., including a 15 min. walk to transfer from Tenjin-Minami Station to Tenjin Station.

SUBWAY ROUTE MAP



Thank you for attending CAP 2018.
We hope to see you again.

国立天文台
NAOJ
National Astronomical Observatory of Japan

ALMA Array Operations Site Atacama, Chile Photographer: Masaaki Hiramatsu

SPONSORS

TOSHIN

ANA Sales

天文ハウス TOMITA ASTRO SHOP TOMITA

GOTO TOKYO GOTO INC

MEGASTAR Ohira Tech Ltd.

MITSUBISHI ELECTRIC

SORA TOURISM

やまや Communications

TOTAL MEDIA DEVELOPMENT INSTITUTE CO.,LTD.

NTT FACILITIES

KONICA MINOLTA

NKM Nishimura CO.,LTD.

EXOSPHERE GROUP

NAO Natural Science Advertisement and Outreach Agency

MARUZEN

Vixen

FUJITSU

Nikon

MON collektions gallery & Co.

SCAR PROMOTION

鶴の子寿郎 石村萬盛堂 ishimuramanseido Co,Ltd

HAMAMATSU PHOTON IS OUR BUSINESS

International Astronomical Union Commission C2 Conference IAU

NAOJ National Astronomical Observatory of Japan

NAOJ CROWDFUNDING CAMPAIGN

KASI Korea Astronomy and Space Science Institute

NARIT National Astronomical Research Institute of Thailand (Public Organization)

United Nations Educational, Scientific and Cultural Organization ITCA International Training Centre in Astronomy under the auspices of UNESCO

PARTNERS

CO-ORGANIZERS

National University SOKENDAI The Graduate University for Advanced Studies

ASJ

JSEPA -Japanese Society for Education and Popularization of Astronomy

JAPOS -Japanese Public Observatory Society

JAAA -Japanese Amateur Astronomers Association

ORGANIZERS

NAOJ National Astronomical Observatory of Japan

福岡市 FUKUOKA CITY

International Astronomical Union Commission C2 Conference IAU