



# IPAC'22 Reports Scientific Secretariat

Porntip Sudmuang - SLRI

JTM2022 – Tennessee – USA



# 13<sup>th</sup> International Particle Accelerator Conference



**MEET, SHAR, LERN IN PERSON IS BACK  
AT IPAC'22 IN THAILAND**





# Local Organizing Committee (LOC)

The IPAC'22 LOC is divided into 5 team composed of:

- **Scientific Program (13 members)**  
Dr. Prapaiwan Sunwong  
Dr. Thapakron Pulampong  
Nisarath Wonglek
- **Proceeding /Editor (10 members)**  
Dr. Thakonwat Chanwattana  
Dr. Nawin Juntong  
Dr. Krongthong Kamonsuangkasem
- **Conference IT (13 members)**  
Natthawut Suradet  
Athikarn Thongwat  
Dr. Keerati Manasatitpong
- **Exhibitor and Sponsor (18 members)**  
Dr. Thanapong Phimsen  
Dr. Saengduan Pimkaew  
Dr. Ratana Charoenwattanasatien
- **Conference Support (15 members)**  
Sasipun Tritan  
Churintorn Neti  
Apiradee Kruajeenteng

## Issues:

- Big size of the LOC! but at the beginning less than 10 committees understand what IPAC is.
- IPAC'20, IPAC'21 was organized as fully online. No chance to learn...



# Role and Responsibility

## LOC/SLRI

- Conference organizing
- Coordination with PCO and IMPACT
- Conference website
- Internet access and IT equipment
- Support SPMS and JACoW team
- Student grants
- Accelerator awards
- Facility tours at SLRI
- Sponsor and exhibition booth sell
- Information support, especially for registration issues
- Official invitation and visa letters for individuals requiring funding support from their laboratories

## IMPACT Muangthong Thani

- Conference venue
- Coffee break and lunch
- Food and beverage for welcome reception, and banquet
- General security and cleaning services
- Internet assess

## Professional Conference Organizer (PCO)

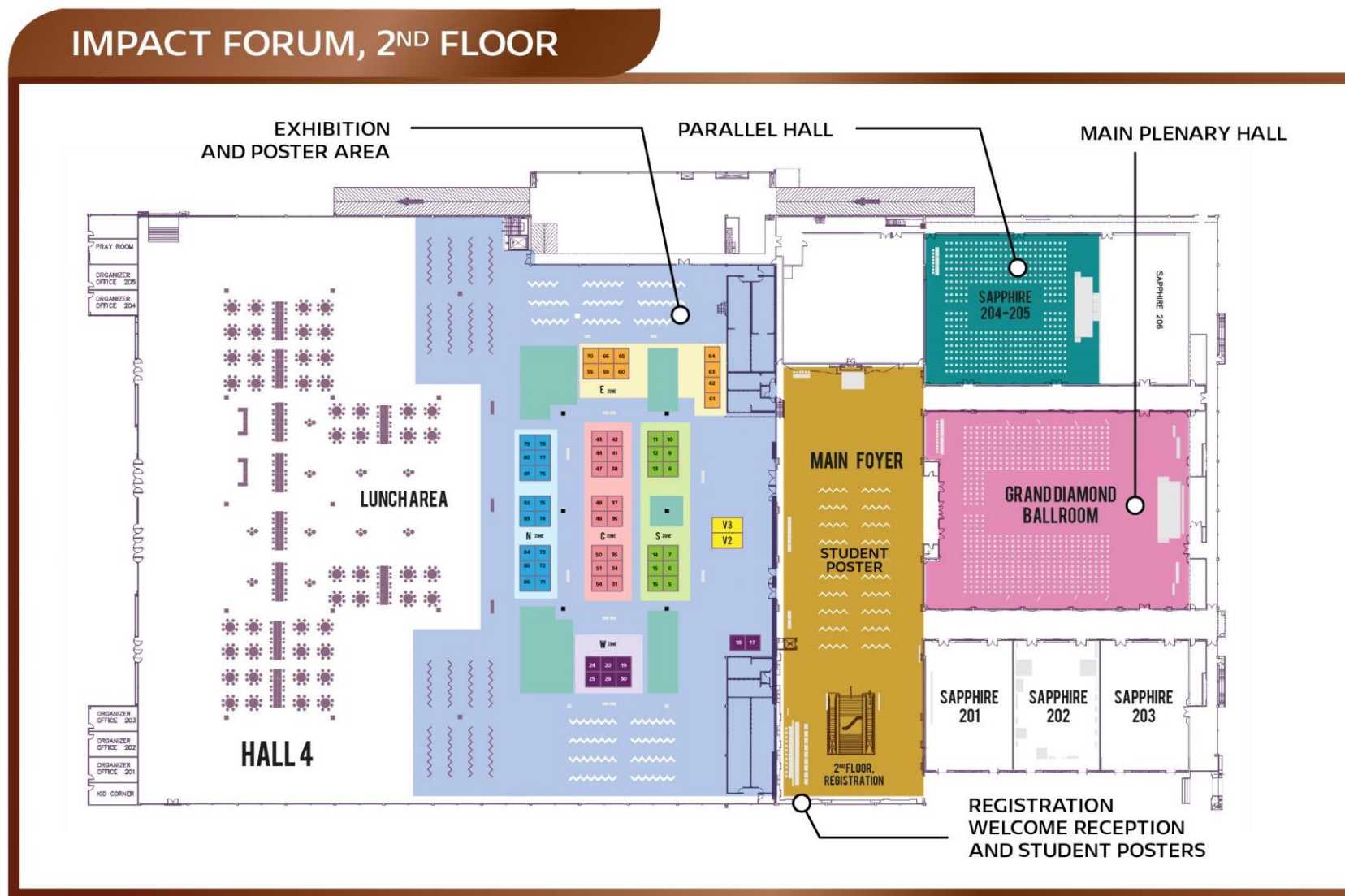
- Space management, floor plan and decoration
- AV organization, equipment and supervision
- Setting-up of exhibition area and internet café, plenary room, speaker ready room, JACOW proceeding office, author reception area, hospitality suite and student coordinator office
- Design and production of registration system (online and onsite), name badges, sponsoring backdrop, souvenirs and electronic guidebook
- Conference app
- Design and organizing of social events
- Photography and video recording
- Transportation

# SPMS Administration

- Much help from Christine, Todd , Ivan, Stefano and Rohan with tasks and interface scripts.
- Prapaiwan and Natthawut handled a lot of the interfacing in SPMS from the LOC side.
- Some functionality in SPMS is no longer working / has missing script, however there is a workaround to do the tasks (thanks to Todd and Rohan for suggestions).
- Corona virus situation and travel restriction affects the schedule/timeline for scientific program activities.
- Use of SPMS email utilities to communicate with delegates. This is especially helpful during the conference for communication with the speakers (to ensure that they upload their slides and visit the speaker ready room).

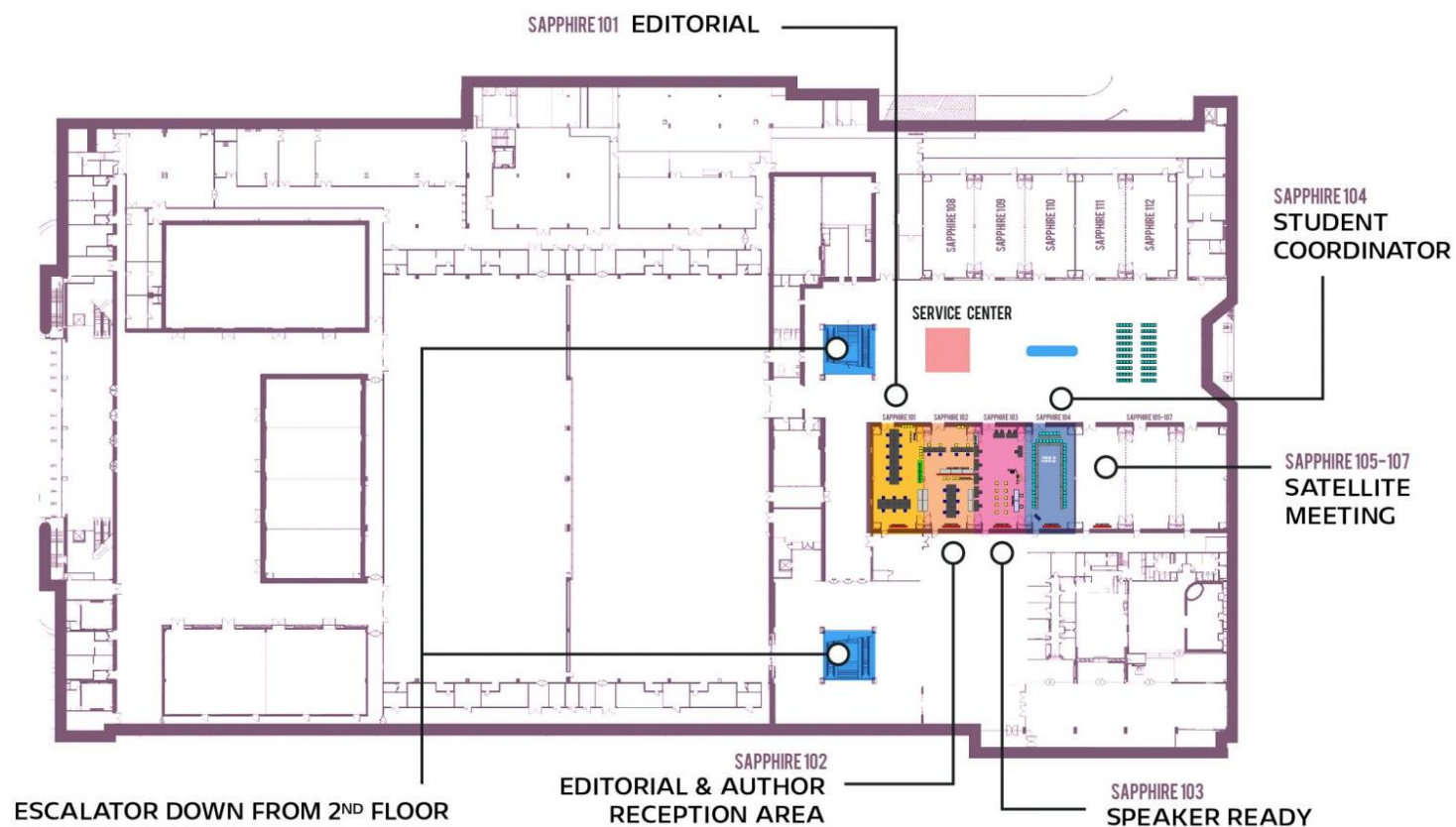


# Venue: Main Conference Area



# Venue: Editorial Office and Other Rooms

## IMPACT FORUM, 1<sup>ST</sup> FLOOR



# Registration

- Use external registration and payment system
- Handled by PCO but needed a strong support by LOC
- Registration data transferred back to SPMS manually by LOC

**IPAC 2022 User Profiles** Natthawut Suradet IPAC22

[Add Another Affiliation](#) [Add A Private Address](#) [Logout](#) [Search](#) [My Schedule](#) [Home](#)  
[External Registration and Payment](#) [Manage Abstracts](#) [Change Password](#)

**User Affiliation**  
[Edit Affiliation](#)  
 Synchrotron Light Research Institute (SLRI) **Email Address** natthawuts@slri.or.th  
 111 Surapatt 3, University Avenue  
 Suranaree Sub-District, Nakhon  
 Ratchasima 30000 **Mail Stop**  
 PO Box 93  
**Telephone** 6644217040

**Note:** Your profile must always contain at least one affiliation. You cannot delete the last affiliation. Create a new affiliation first, then delete the unwanted one.

User Information	Citizenship Information
Last (Family) Name Suradet	Country Thailand
First (Given) Name Natthawut	Time Zone Asia/Bangkok
Middle Name	Date Format mm/dd/yy hh24:mi
Initials N.	02/18/22 13:39 (Asia/Bangkok)
Gender	
Membership Information	Mailing Lists
<b>Member Affiliation</b>	<b>List Conference</b>
No APS DPB	No Beam Cooling
No European Physical Society	No International Conference on Cyclotrons and their Applications
No IEEE	No International Symposium on Electron Beam Ion Sources and Traps
No IUPAP	No Electron Cyclotron Resonance Ion Source
No Institute of Physics	No International Workshop on Accelerator Science and Technology for Electron-Ion Collider
No National Physical Society	No ICRABDW Workshop on Energy Recovery Linacs
	No International Free-Electron Laser Conference
	No ICRABDW Workshop on Future Light Sources



**Registration** Personal Information

1 Personal Details 2 Add Preference 3 Payment 4 Completed

**Personal Information**

Title \*

Family name \*

First name \*

Email \*

Affiliation Institute / Company \*

Department \*

Gender \*

Address 1 \*

Address 2

City \*

State \*

Country \*

Post Code \*

Telephone \*

**Registration** Personal Information

1 Personal Details 2 Add Preference 3 Payment 4 Completed

**Order Summary**

Ticket: 22,300  
 2022-06-12 - 2022-06-17  
 Event: Welcome reception  
 Event: Conference banquet  
 Event: Siam Photon Source Tours  
 Price Inc. VAT (THB) 24,000  
 Discount 0  
 Total 24,000

**Payment Method**

☐ Bank Transfer

☒ By a credit card: Visa, Master Card or American Express

**Billing Address**

☐ My billing address is the same as register address

Title

Family name \*

First name \*

The Registration Desk was open at:

12:00 -20:00 Sunday, June 12, 2022

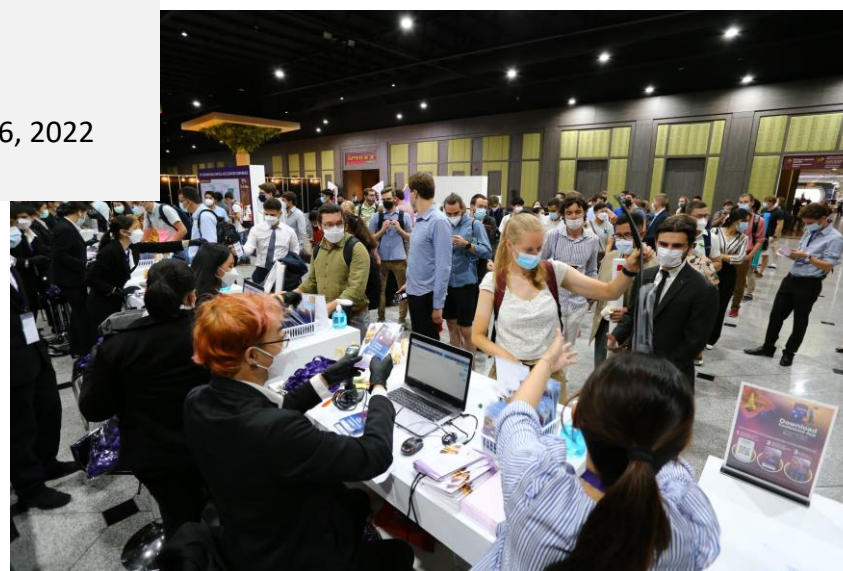
8.00 -15:30 Monday, June 13, 2022

8.00 -18:00 Tuesday, June 14 – Thursday, June 16, 2022

8:00 -12:00 Friday, June 17, 2022

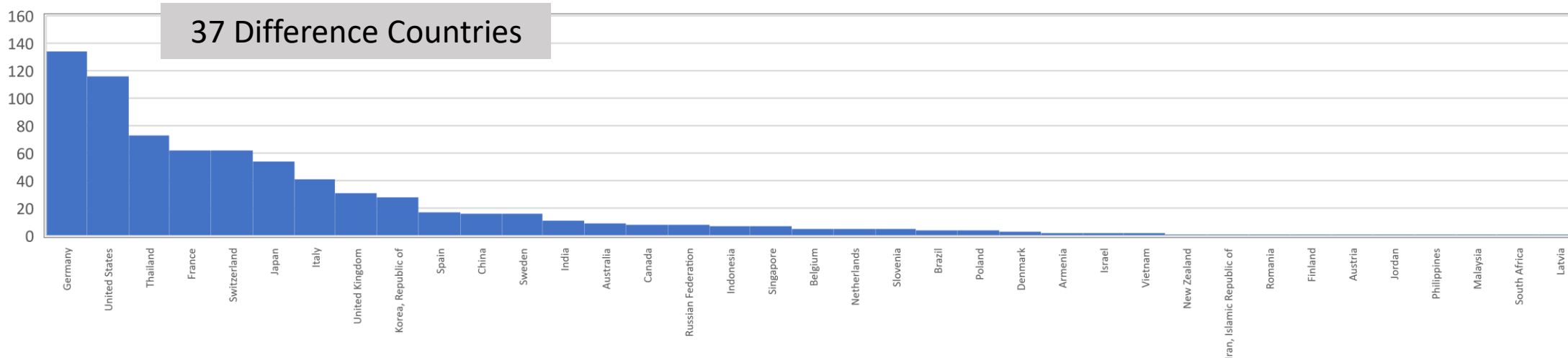
## Issue:

- Underestimated the number of delegates registered on Sunday (more than 80%)



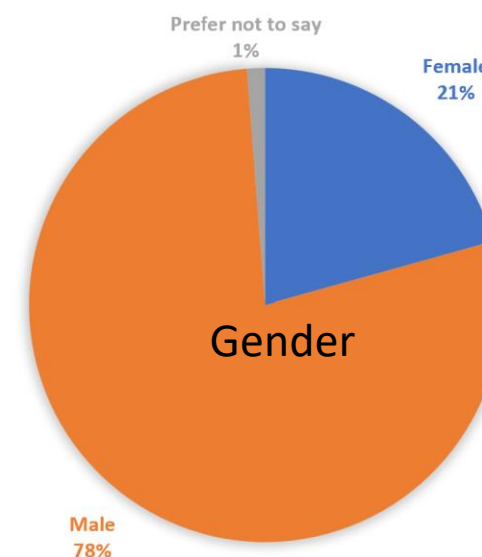
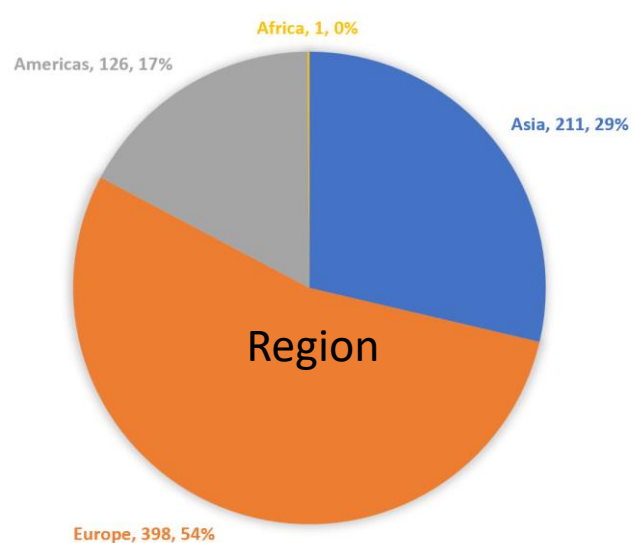


# Participants: By Countries



Most participants are from:

Country	Percentage
Germany	18.64
United States	16.13
Thailand	10.15
France	8.62
Switzerland	8.62
Japan	7.51
Italy	5.70
United Kingdom	4.31
Korea, Republic of	3.89
Spain	2.36



# Participants: Types and Numbers

Participant Type (based on Registration)	Number
Full regular delegate	378
Day registration delegate	3
Student	169
Exhibitor	118
Companions	19
Guest	18
Editor	26
Staff (excluded delegates)	54
Remote speaker	21
<b>Total</b>	<b>806</b>



# Scientific Program Committee (SPC)

SPC Chair: Hitoshi Tanaka **RIKEN**

	Main Classifications	Asian Coordinators	European/NA Deputies
1.	MC1: Circular and Linear Colliders	Yuhui Li, IHEP	Regelio Tomas, CERN
2.	MC2: Photon Sources and Electron Accelerators	Takahiro Watanabe, JASRI/SPRING-8	Timur Shaftan, BNL
3.	MC3: Novel Particle Sources and Acceleration Techniques	Hy Yong Suk, GIST	Ralph Assmann, DESY
4.	MC4: Hadron Accelerators	Tadashi Koseki, KEK	Marie-Helene Moscatello, GANIL
5.	MC5: Beam Dynamics and EM Fields	Rohan Dowd, ANST/AS	Ryan Lindberg, ANL
6.	MC6: Beam Instrumentation, Controls, Feedback and Operational Aspects	Yongbin Leng, SSRF/SINAP	Tim Maxwell, SLAC
7.	MC7: Accelerator Technology	Thapakron Pulampong, SLRI	Anna Grassellino, FNAL -> <b>Mei Bai, SLAC</b>
8.	MC8: Applications of Accelerators, Technology Transfer and Industrial Relations	Chaoen Wang, NSRRC	Peter McIntosh, STFC/DL/ASTeC

## Organizing Committee

Prapong Klysubun	SLRI
Organizing Committee Chair	
Mark Boland	CLS
John Byrd	ANL
Alessandro Fabris	ELETTRA
Tetsuya Ishikawa	RIKEN/SPRING-8
In Soo Ko	POSTECH/PAL
Lin Liu	LNLS
Gwo-Huei Luo	NSRRC
Stephen Milton	LANL
Toshiyuki Mitsuhashi	KEK
Tor Raubenheimer	SLAC
Sven Reiche	PSI
Adriana Rossi	CERN
Saroj Rujirawat	SLRI
Fernando Sannibale	BNL
Todd Satogata	JLab
Purushottam Shrivastava	RRCAT
Cristina Vaccarezza	INFN
Pei Zhang	IHEP
Zhentang Zhao	SSRF/SINAP

## Scientific Program Committee

Hitoshi Tanaka	RIKEN
Scientific Program Committee Chair	
Ralph Assmann	DESY
Rohan Dowd	ANSTO/AS
Mei Bai	SLAC
Tadashi Koseki	KEK
Yongbin Leng	SSRF/SINAP
Yuhui Li	IHEP
Ryan Lindberg	ANL
Timothy Maxwell	SLAC
Peter McIntosh	STFC
Marie-Helene Moscatello	CEA
Thapakron Pulampong	SLRI
Timur Shaftan	BNL
Hy Yong Suk	GIST
Rogelio Tomas	CERN
Chaoen Wang	NSRRC
Takahiro Watanabe	JASRI/SPRING-8





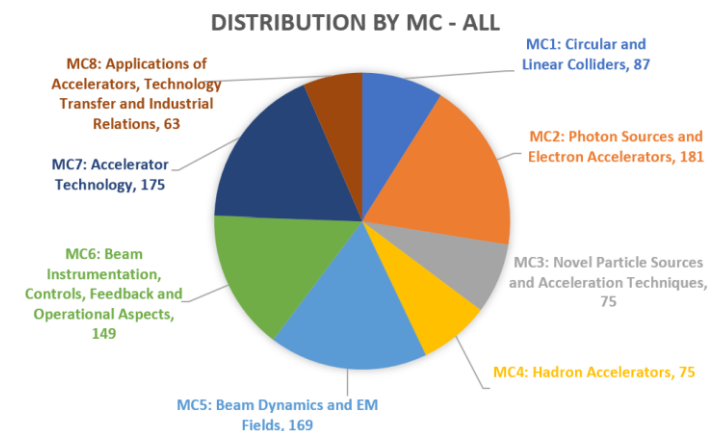
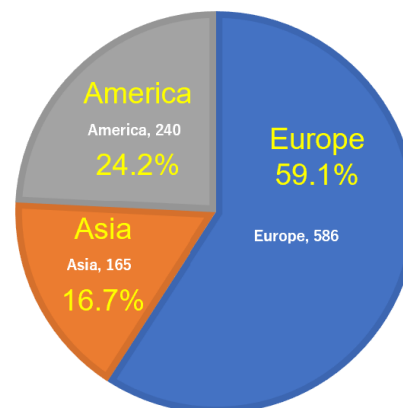
# Timeline for Scientific Program

Activity	Date
<b>2020</b>	
▪ Formation of OC, SPC, and LOC	From July to Nov.
▪ SPC#1	Feb. 3 by Zoom Meeting
<b>2021</b>	
▪ Proposal deadline for invited oral suggestions from SPC/SAB/OC	Apr. 30
▪ SPC#2	June 1-2, June 8-9 by Zoom Meeting
<b>2022</b>	
▪ Status Report	Nov. 30 @ Venice, Italy
▪ Abstract submission deadline	Jan. 24
▪ SPC#3:	Mar. 1-3 by Zoom Meeting
▪ Paper Submission Closing	June 8
▪ IPAC2022	June 12-17, Bangkok

Region	Total		Invited Oral		Contributed Oral		Poster	
Europe	580	59.4%	11.5	31.9%	23	44.2%	546	61.5%
Asia	162	16.6%	12.5	34.7%	13	25.0%	136	15.3%
America	234	24.0%	12	33.3%	16	30.8%	206	23.2%
<b>Total</b>	<b>976</b>		<b>36</b>		<b>52</b>		<b>888</b>	

Gender	All Orals		Invited Oral		Contributed Oral	
Male	63	71.6%	28	77.8%	35	67.3%
Female	25	28.4%	8	22.2%	17	32.7%
<b>Total</b>	<b>88</b>		<b>36</b>		<b>52</b>	

Oral presentation	Invited	Contributed	Total
Remote	13	8	21
Onsite	23	44	67
<b>Total</b>	<b>36</b>	<b>52</b>	<b>88</b>



Facility tour was organized on Saturday

# Student Poster Session

## Student Poster Session

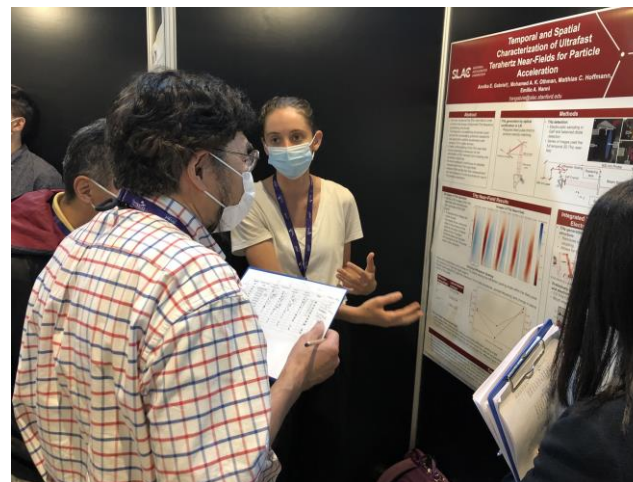
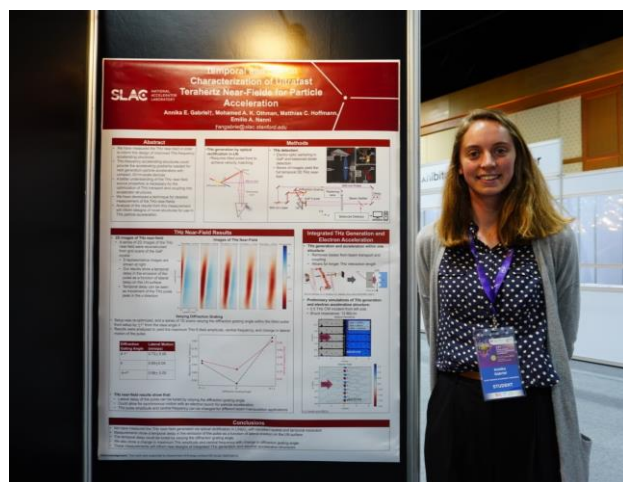
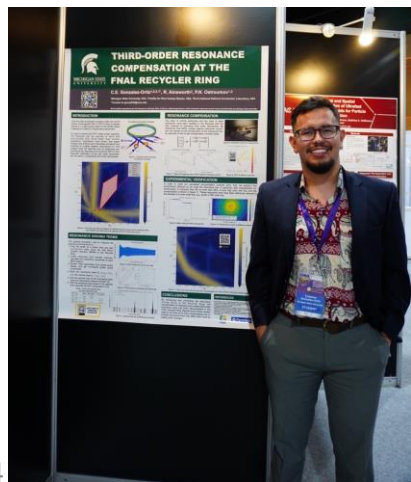
### Chair:

- **Toshiyuki Mitsuhashi, KEK**

### Poster Judges (Two Best Student Poster Awards):

- Located at Main Foyer on Sunday, June 12 (13.00-18.00)
- 27 judges
- 133 Student posters submitted with Code SUSPMFxxx
- 1<sup>st</sup> round with 111 student posters presented and was judged
- 2<sup>nd</sup> round only 13 poster, 4 judges, 1 teams.
- Took around 2 hr.

Comments: Should consider to have a semipermanent judging group, process





# Students Grants

## Student Grant

### Coordinators:

- Local: **Siriwan Krainara, SLRI**
- Asia region: **Eugene Tan, ANSTO**
- Europe region: **Rogelio Tomas and Jim Clake, STFC UKRI**
- America region: **Oliver Kester, TRIUMF**

71 Recipients (selected from 181 Applicants )

- Asia: 1,921,450 THB (25 students + registration fees for all students)
- Europe: 2,244,000 THB (31 students )
- Americas: 1,284,898 THB (15 students)

3 Declinations

69 Registered (8 students not presented their work)

### ASIA region:

Thanks to the sponsorship from the IPAC'22 Conference, SLRI, IPAC'19, and ANSTO.



### EUROPE region:

Thanks to the sponsorship from the European Physical Society Accelerator Group (EPS-AG), GSI, CNRS/IN2P3, INFN/LNL, CERN, DESY, PSI, CEA Saclay, ELETTRA, CELLS/ALBA, HZB, ESS, Cockcroft Institute, KIT, SOLEIL, ESRF, STFC/DL/ASTeC, MAX IV, and FZJ.

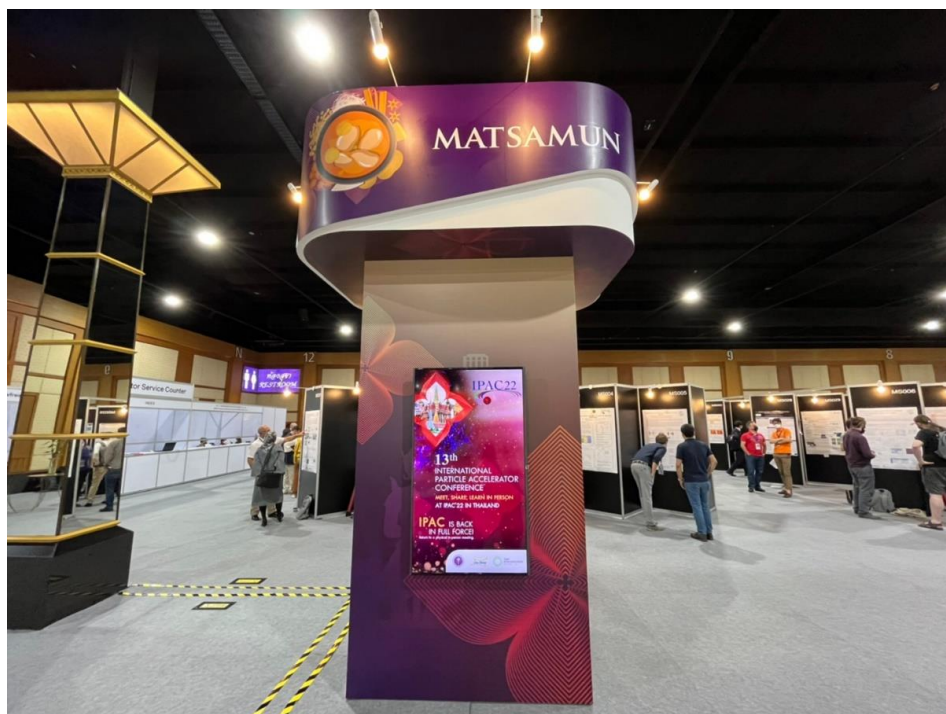


# Poster Areas

Monday	Tuesday	Wednesday	Thursday
44 MOPOMS 59 MOPOPT 48 MOPOST 62 MOPOTK	56 TUPOMS 62 TUPOPT 54 TUPOST 60 TUPOTK	50 WEPOMS 58 WEPOPT 49 WEPOST 60 WEPOTK	57 THPOMS 62 THPOPT 45 THPOST 60 THPOTK

## Issues:

- Some delegates did NOT read/follow the guidelines for poster session.
- Up to 7 – 8 posters/presenter due to travel restriction --> large number of disjointed authors and moving of paper ID needed to be done manually.



- Day symbols
  - MO:** Monday
  - TU:** Tuesday
  - WE:** Wednesday
  - TH:** Thursday
  - SU:** Sunday
- Presentation type symbols
  - PO:** Poster
  - SP:** Student Poster
- Floor symbols
  - ST:** Somtum
  - PT:** Padthai
  - TK:** Tomyam Kung
  - MS:** Matsaman
  - MF:** Main Foyer



# Poster Police

- 2 people (only from LOC staff) per poster session. Each doing 90 to 100 posters.
- Completed in 2 hours.
- Poster police re-checked 3-4 rounds because they want to give a chance for presenters who had to present several poster.





# Editorial Team

## IPAC'22 Editorial Team: Members

Chief Editor:

Thakonwat Chanwattana

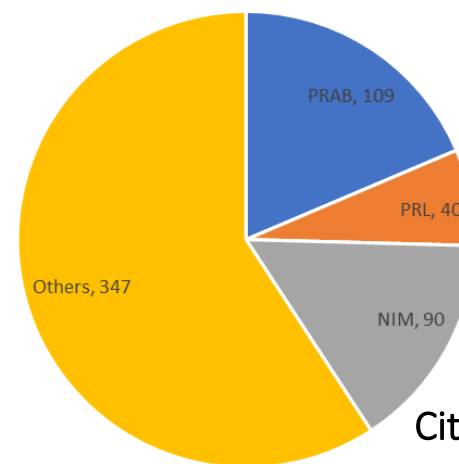
- Invitation letters were sent to **29** JACoW members and LOC of other JACoW conferences (IPAC'23, IBIC'22, etc.) in March – April 2022.
- **17** colleagues join the team **in-person**
- **6** colleagues join as **Remote Editors**
- IPAC'22 Editorial team is the first **Hybrid Editorial Team** for JACoW Conferences.



# Light Peer review

- IPAC'22 supports light peer review of a limited number of papers to be published as part of the Institute of Physics Journal of Physics: Conference Series.
- Papers are reviewed by the SAB, while the SPC under the leadership of the Scientific Publication Board Chair, Frank Zimmermann, performed the function of editorial board
- Over 117 papers were submitted, many were revised, 112 were approved and 1 was withdrawn.
- Nawin Juntong and Todd Satogata managed the review process within the JACoW SPMS database.
- IOP offered the online publication cost at a rate of GBP42/EUR49/USD56 per submitted article which was increased to 40% from IPAC'19 (USD40)
- 111 papers will be submitted to IOP in November. The publication was decided to postpone from October 2022 to January 2023 with the reason of the citation's indexation period of the Journal Citation Reports (JCR) by Clarivate. The IPAC'22 IOP JPCS will have full 2023 year of citations count for indexing.

<b>Total conf. participants</b>	<b>806</b>
Total submitted papers/abstracts	976 / 1888
Total peer review requested	255
Number of volunteer referees	584 (selected from 754)
Total peer review accepted / Publish	117 / 111



Citations count in 111 papers

# Conference App

- PAC'22 conference mobile app was created by PCO (Index creative village company).
- The design function was kept interface simple, easy to use and will be based on IPAC'19 to help delegate familiar.
- IPAC'22 app can be download from play store and app store.

## Issues:

- Conference app was not successfully submitted by using "IPAC'22" name. The App Store noticed that the app provide the same features set as other apps submitted to the App Store.
- Conference app was not working properly because PCO are professional for event organizer, but they have not fully understood the needs for scientific conference.
- Need to use professional conference app or consider to use similar apps in every IPAC





# Social Events

- Organize many activities during the social events.



## Issues:

- The student poster session was disturbed by sound testing of welcome activities.
- Need to consider many extra tickets for accompanying of the chair's reception.
- Many delegates had COVID-19 after the events.



# Lunch and Networking Lounge

- Provide food and drinks at the exhibitions and poster session. This is the good way to maximize delegate presence in the exhibition area during lunch time.
- Many little islands was well used for discussion.





# Siam Photon Laboratory Tour

The tour of Siam Photon Laboratory (SPL Tour), was organized on Saturday, June 18, 2022



## Issue:

- Many people cancel facility tour because they understand that it was a similar traditional IPAC facility tour that normally organize after the conference end on Friday afternoon.



# Budget Overview

Item	Income THB (million)
Conference fee	10.084
Industrial exhibition booth sell	9.330
Sponsoring	0.500
Booth cancellation charges	0.240
Additional support from Thai industries and institutes	1.246
Additional support from International industries	0.958
Other (T-shirt sell, tour and hotel reservation)	1.420
Student grant from IPAC'19	1.421
Total	25.199
<b>Total (Exclude VAT)</b>	<b>23.342</b>

## Issues:

Budget had been originally set for 1000 delegates and 80 exhibition booths. Reached 60% of the target. Final total loss was 6 million THB

Item	Expenses THB (million)
Conference venue (IMPACT Muangthong Thani)	
- Venue fee	12.92
- Coffee break and lunch	
- Food and beverage for welcome reception, chairman's reception and banquet	
- General security and cleaning services	
- Internet access	
Professional Conference Organizer (PCO)	
- Space management, floor plan and decoration	10.00
- AV organization, equipment and supervision	
- Setting up of exhibition area, internet café, plenary room, speaker ready room, JACoW proceeding office, author reception area, hospitality suite and student coordinator office	
- Design and production of registration area, sponsoring backdrop	
- Design and production of signage and name badges	
- Souvenirs and booklets	
- Design and organizing of social events	
- Photography and video recording	
- Conference app	
- Transportation	
LOC (SLRI)	
- Registration	0.50
- Website	0.05
- IT equipment	2.29
- JACoW support	1.00
- Accelerator award	0.10
- Light Peer Review publication	0.24
- Tour at SLRI	0.13
- Student grant in 2022 (1.42 MTHB supported by IPAC'19)	0.61
- Other expenses	1.53
<b>Total expenses</b>	<b>29.38</b>

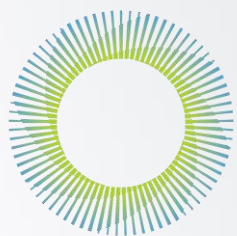


# Organizing Issues

- **Registration system:** A lot of payment have been not successful processed due to transaction fail which may caused by fraud alert of the card issuing bank
- **Unpredictable situations:** Due to the corona virus situation and travel restriction as well as the ongoing war in Ukraine there was a last-minute change of:
  - scientist program. One contributed oral presentation need to be moved to poster presentation.
  - ability to attend the conference of some speakers, session chairs and participants.
- **Conference app:**
  - Conference app was not successfully submitted by using "IPAC'22" name. The App Store noticed that the app provide the same features set as other apps submitted to the App Store.
  - Conference app was developed by PCO who are professional for event organizer, but they have not fully understood the needs for scientific conference.
- **Conference booklet:** A printed conference booklet is still required, especially the program schedule.
- **Financial loss:** Number of participants is not reached as the normal IPAC due to corona virus situation and travel restriction, most Chinese and Taiwanese people cannot attend the conference. Many American and Japanese people also find it difficult to get approval from their laboratory



# THANK YOU



THAI  
SYNCHROTRON  
NATIONAL LAB