

## **I-HAC report to the BoD charge given on Mar. 2, 2025**

2025.06.04 I-HAC

The International Honorary Advisory Committee (I-HAC) of AAPPS-DPP prepared the following report for the charge from the Board of Directors (BoD). The BoD charge is requested for the improvement of gender diversity and inclusion in AAPPS-DPP.

BoD raised the following three questions to I-HAC:

1. Are the recommendations from the first WIPP workshop appropriate?
2. Are the current BoD actions adequate?
3. Are there any additional recommendations for future action?

I-HAC's answers for the first two questions are positive, supporting the recommendations from the WIPP workshop and the BoD actions. The WIPP provided excellent recommendations that have emerged from thoughtful deliberations at the WIPP workshop. The BoD actions constitute a significant first step and indicate the way forward for further positive actions.

For the third question I-HAC expresses the following recommendations:

1. The BoD of AAPPS-DPP should make strong efforts to boost the female participation in the annual meeting. The initial target of female participants is 20%, but it should increase with time, hopefully reaching 30% in near future. The technical program committees should be organized with female members, 20% or more. Early career researchers should be given priority in the selection of invited speakers and in the travel support. They should be actively recruited as session chairs to enhance visibility. For this goal, BoD should give an extra favor to female participants in providing financial support, in particular those from underrepresented countries and regions, for which BoD should raise an extra funding.
2. When organizing award committees, such as Chandra, PIP, U40, and U30, DPP should improve the gender balance by inviting more than one female member, preferably as a committee chair. The nomination of female candidates should be strongly encouraged also.

Participants of this report:

Liu Chen (chair), Chang Hee Nam (vice chair), Nor Aishah Saidina Amin, G.C. Anupama, Abraham Chian, Amita Das, Ursel Fantz, Katsumi Ida, Sylvie Jacquemot, I Lin, A A Mamun, Won Namkung, Yongkook Oh, Yi-Kang Pu, Abhijit Sen, Archana Sharma, Zeng-Ming Sheng, Toshiki Tajima, Tomohiko Watanabe, Hiroshi Yamada, Peter Yoon, Ellen G Zweibel

# 2025 Charge to I-HAC

2025.03.02 DPP-chair and CEO  
On behalf of AAPPs-DPP BoD

## Background

At the 2023 AAPPs-DPP annual conference, the first Woman in Plasma Physics (WIPP) workshop was held, chaired by Anne Mai-Prochnow and Tony Murphy. The workshop report ([https://www.aappsdpp.org/DPP2023/html/materials/Report\\_on\\_WIPP\\_WS2023.pdf](https://www.aappsdpp.org/DPP2023/html/materials/Report_on_WIPP_WS2023.pdf)) outlined several recommendations for the Board of Directors (BoD) to improve gender diversity and inclusion in the field.

## These recommendations included:

1. Ensuring women representation on the Board of Directors by modifying the nomination process accordingly.
2. Strengthening the connection between the Division of Plasma Physics (DPP) and the AAPPs Working Group for Women in Physics, possibly with BoD support.
3. Setting a formal target for the number of women invited and plenary speakers.
4. Ensuring that at least 20% of organizing committee members are women.
5. Encouraging male allies to actively support gender diversity.
6. Encouraging women to apply for existing awards and ensuring award selection committees include at least one women member. However, there was no consensus on whether a separate DPP prize for women should be introduced.

## Current Actions by the BoD in Response to the WIPP report.

1. A woman BoD member has been assigned to oversee WIPP-related initiatives.
2. The first WIPP workshop report benefitted by WIP vice chair Setsuko Tajima ([https://www.aappsdpp.org/DPP2023/html/materials/presentation\\_tajima.pdf](https://www.aappsdpp.org/DPP2023/html/materials/presentation_tajima.pdf)). BoD member responsible for WIPP is also part of the AAPPs WIP Working Group and will provide input based on discussions from the second WIPP workshop at AAPPs-DPP2024.
3. A formal target of 20% for plenary and invited was agreed by the BoD on 21 May 2024. Efforts are being made to increase women participation in AAPPs-DPP2025. Women representation at past conferences has been:
  - AAPPs-DPP2023 participants : 121 out of 661 participants (18%)
  - AAPPs-DPP2024 participants : 85 out of 496 participants (17%)
  - AAPPs-DPP2024 Plenary : 2 out of 29 (7%)      Note: 5 women plenary in AAPPs-DPP2023
  - AAPPs-DPP2024 Invited : 34 out of 246 (14%)
4. A formal target of 20% IOC members was agreed by the BoD on 21 May 2024. We have met this target. •  
AAPPs-DPP2025 International Organizing Committee (IOC): 100 out of 488 (20.5%).
  - AAPPs-DPP2025 Program Committee (PC): 45 out of 181 (25%).
  - International Honorary Advisory Committee (I-HAC): 9 out of 39 (23%).
5. No specific actions have been taken to encourage male allies.
6. When we set DPP award selection committees (Chandra, PIP, U40, U30), DPP will include at least one women member. DPP will encourage more nominations through various routes including I-HAC members.

## Questions for the I-HAC

1. Are the recommendations from the first WIPP workshop appropriate?
2. Are the current BoD actions adequate?
3. Are there any additional recommendations for future action?



## AAPPS WIP Resolution 2023 (tentative)

- 1) APPS should appoint a vice-president to be in charge of diversity, equity and inclusion (DEI) issues, and to develop the action plan.
- 2) At the annual AAPPS council meeting, all the member societies should report on the gender ratio of membership and board members, as well as the DEI activities.
- 3) For all the scientific meetings supported by AAPPS, the women ratio in organizing or program committees is requested to be more than 20%.
- 4) In all the AAPPS-related award selection committees, at least one woman member should be appointed. In addition, AAPPS should make more efforts to increase the number of women nominees.
- 5) All the members of the organizing and program committees and award selection committees should increase their awareness of implicit and unconscious biases, and should make efforts to minimize adverse impacts.
- 6) AAPPS council should set a minimum number or ratio of women invited speakers for all the scientific meetings supported by AAPPS.
- 7) The actual women ratio of organizing and program committees and invited speakers of each meeting supported by AAPPS must be reported at the AAPPS council meeting to satisfy the council's concern.

List of I-HAC as of March 2, 2025

#	Name	Function	Region
1	Liu Chen	Chair	CN/US
2	Chang Hee Nam	Vice Chair	KR
3	Akira Hasegawa	F	JP
4	Patrick Diamond	F	US/CN
5	Taik Soo Hahm	F	KR
6	Abhijit Sen	B	IN
7	Lin I	B	TW
8	AA Mamun	B	BG
9	<b>Vinod Krishan</b>	B	IN
10	Tomo-Hiko Watanabe	B	JP
11	Masaru Hori	A	JP
12	Yi-Kang Pu	A	CN
13	<b>Archana Sharma</b>	A	IN
14	<b>NAS Amin</b>	A	MY
15	Zheng-Ming Sheng	L	CN
16	Ryosuke Kodama	L	JP
17	Pisin Chen	L	TW
18	Toshiki Tajima	L	US/JP
19	<b>Amita Das</b>	L	IN
20	<b>Sylvie Jacquemot</b>	EPS	FR
21	<b>Seong-Hee Park</b>	L	KR
22	Lou C. Lee	SG	TW
23	Masahiro Hoshino	SG	JP
24	Abraham Chian	SG	AU
25	Peter Yoon	SG	US/KR
26	Donald B. Melrose	SG	AU
27	Kazunari Shibata	SA	JP
28	Arnab R. Choudhuri	SA	IN
29	<b>Ellen Zweibel</b>	APS	US
30	<b>GC Anupama</b>	SA	IN
31	Won Namkung	MF	KR
32	YeongKook OH	MF	KR
33	Jiangang Li	MF	CN
34	Xuru Duan	MF	CN
35	Baonian Wan	MF	CN
36	Katsumi Ida	MF	JP
37	Thawatchai Onjun	MF	TH
38	<b>Ursel Fanz</b>	IUPAP	DE
39	Hiroshi Yamada	MF	JP

## Report on Women in Plasma Physics workshop, 13 November 2023

2024.04.04 Tony Murphy and Anne Mai-Prochnow

A Mini-Workshop for Women in Plasma Physics was held as a Satellite Workshop during AAPPS-DPP2023 (7<sup>th</sup> Asia-Pacific Conference on Plasma Physics, Nagoya, 12-17 November 2023).

Date and Time of WS: Monday 13th November 2023, Time 19:00-21:00

The workshop was chaired by Dr Anne Mai-Prochnow, who organised the workshop with the assistance of a planning committee (Prof. Bharati Kakad, Prof. Izumi Murakami, Prof. Eunmi Choi, Dr Kanako Seki, Dr Nazish Rubab, Dr Choongki Sung, Dr Lu Wang, Dr Yuxue Zhang, Dr Natsumi Iwata, Prof. Mitsuru Kikuchi, Dr Tony Murphy).

There were about 38 attendees, including 7 men.

The workshop program was as follows.

- Welcome & Introduction Dr Anne Mai-Prochnow, WIPP Committee Chairperson: *Overall scenario related to women in plasma physics (or in research) based on current statistics/reports, etc.*
- Prof. Setsuko Tajima, Vice Chair of AAPPS Working Group for Women in Physics, Osaka University, Japan: *The current status of AAPPS Working Group of Women in Physics*
- Dr Mamiko Sasao, Doshisa University, Japan: *Physics education and unconscious gender bias*
- Dr Daniela Grasso, CNR Institute for Complex Systems and Politecnico di Torino, Italy: *Is it possible organize a gender balanced conference?*
- Prof. Anisa Qamar, Uni. of Peshawar, Pakistan: *Problems of Pakistani women to adopt physics as a career*
- Dr Weixin Guo, Huazhong University of Science and Technology, China: *Be brave enough to pursue your dreams---The growth experience of scientific researcher in universities*
- Open discussion led by WIPP committee member
- Concluding remarks and Vote of Thanks by WIPP Committee member

Dr Mai-Prochnow made several important points in her introduction. She noted that of the 462 participants of AAPPS-DPP2023 (based on contributed papers), only 16% were women. For the Asian countries with a large number of participants (China, Japan, India and Korea), between 11 and 21% were women. Of the prizes offered by the AAPPS-DPP, 7 out of 37 U30 Scientist and Student Award recipients, 4 out of 50 Young Research Award recipients, and none of the 12 Chandrasekhar Prize or 4 Plasma Innovation Prize recipients have been women.

Prof. Tajima presented resolutions adopted by the AAPPS Working Group on Women in Physics in 2023. These included that:

- All member societies should report on gender ratio of membership and board members;
- There should be at least 20% female representation on scientific meeting organising

committees;

- All award committee should have at least 1 women, and more women nominees should be encouraged;
- Awareness of unconscious bias should be increased;
- There should be a minimum ratio of women invited speakers for all scientific meeting;
- The fraction of women on organising and program committees should be reported.

Professor Sasao presented information from the Physics Education Research Committee in Science Council of Japan that showed a 13% gender gap in physics understanding, which decreased to zero after better teaching of concepts. Prof. Sasao noted a large gender gap in enrolment - physics always second last among STEM subjects, with reasons including the masculine image of physics and maths, and gender role stereotypes. Other problems were unconscious bias, the image of physicists, lack of childcare, and difficulties in communication among leaders.

Dr Grasso presented several recommendations for organising a gender-balanced conference, based on her success in organising a conference with equal male and female representation on the committee and as speakers. These included:

- Build up a gender-balanced committee;
- Cross-fertilise with fields where women are better represented if necessary;
- Have clear rules for the gender balance of invited speakers (equal numbers).

Prof. Qamar, who was the first female PhD and first female professor in her province, noted several problems facing Pakistani women seeking a career in physics. These included gender discrimination, cultural and social norms, lack of support, mentorship and role models, lack of access to education, the workplace environment, and the safety and security situation, especially for conferences. She presented recommendations for improving the situation, including exposing mid-career women to training in technology, and the provision of grants for young women.

Dr Guo mentioned initiative to support women researchers in China, including a 3-year increase in the age limit for project applications, and easier recognition for women at a comparable academic level.

In the discussion, participants were asked to enter responses to several questions via an app. The questions and representative answers were as follows.

*How can we ensure that there are female members of the Board of Directors?*

- Improve the number of women at the conference
- Nomination process needs to ensure gender diversity
- Encourage suitable female candidates to nominate
- The AAPS Working group for Women in Physics should be tasked with making recommendations to the Board that need to be followed
- Nomination process need to consider gender balance.
- Several approaches can be be used:
  - Promote a culture of inclusion
  - Set diversity goals and targets
  - Implement an equal opportunity policy

- Educate and raise awareness
- Mentorship and sponsorship programs

*Should there be a link between the Division of Plasma Physics and the AAPPS Working Group for Women in Physics?*

- Yes
- Each division could send a member
- Yes - a person could be selected by the Board of Directors, for example (and invited to report at Board meetings)
- The WIP WG should discuss the way to invite the division's WIP.
- Yes, it is good to connect with the WIP WG of AAPPS.
- Yes, it is good to connect between DPP and WIP WG
- Yes

*Should there be a DPP prize for women scientists?*

- More and more comparable with our percentage
- This seems superficial if women aren't winning the 'normal' prizes
- Sure; fully support and necessary
- Regarding the poster prizes - we need guidelines about the career level and gender balance of the recipients
- Not only do we need guidelines for poster prizes, but we need to be involved in writing the guidelines
- Then there would be only additional competition between women. Highlighting the gender doesn't help the balance between men and women
- Sure, it would encourage female researchers
- Yes, it will enhance women leaders, which will inspire the mid-career women.

*Should there be formal targets for female invited and plenary speakers?*

- Many more
- There should be a formal agreed upon percentage of women who are giving talks and are part of the conference
- Reasonable and necessary things to push forward!
- Definitely - we should aim for a high target (50%?)
- The program committee should consider gender balance more when nominating invited and plenary speakers.
- In the field of physics, women have been historically underrepresented, and formal targets can help address this imbalance by encouraging event organizers to actively seek out and invite qualified female speakers

*How can we encourage men to fight with us for gender equity?*

- By showing how the problem affects not just women but all people within society and proving the benefits using research
- Education about the importance of diversity for successful research groups
- Send a survey to all conference attendees
- 1. Encourage men with conversation 2. Celebrate achievements

**Summary:**

The session was well attended, provocative and enjoyable. Most attendees stayed until the end and took part in informal discussions.

Based on the presentations, discussions and the responses to the questions, the following points can be emphasised.

- 1) There should be women on the Board of Directors; the nomination process should be designed to ensure this.
- 2) There should be a link between the DPP and the AAPPS Working Group for Women in Physics; perhaps the Board of Directors can facilitate this
- 3) There should be a formal target for female invited and plenary speakers
- 4) Organising committees should include female members (at least 20%)
- 5) Men can and should assist to improve the situation for women
- 6) There was no consensus about whether a DPP prize for women researchers should be instituted; however, women should be encouraged to nominate for existing awards and selection committees should have at least one female member.