

Joint APPG-AIP Congress 2016

WARRICK COUCH

PRESIDENT OF THE AUSTRALIAN INSTITUTE OF PHYSICS (AIP)

2016 was a significant year for the AAPPS in that its triennial meeting – the Asia-Pacific Physics Conference – was for the very first time held jointly with the Australian Institute of Physics' (AIP) biennial Congress. The meeting took place in Brisbane, Australia, from 4-8 December 2016. The Honorary Chair for the meeting was the Nobel Laureate, Prof Brian Schmidt. Prof Halina Rubinsztein-Dunlop and myself were co-Chairs of the Organising Committee. The two of us worked closely with the President of the AAPPS, Prof Swan Kim, throughout the organization of the meeting.

Given the joint nature of the meeting, there was also an International Advisory Committee (IAC) chaired by Dr Robert Robinson, the previous President of the AIP and until December 2016 Australia's member of the AAPPS Council. The IAC comprised all members of the AAPPS Council, additional members from New Zealand, India and Saudi Arabia, and a number of female nominees from across the Asia-Pacific Region. This committee provided advice on plenary and invited speakers, helped raise sponsorship of the meeting across the Asia-Pacific region, and reviewed arrangements for supporting early-career researchers from developing Asia-Pacific countries to attend the meeting.

A total of 852 people attended the meeting, which included just over 600 from Australia and 220 from countries in the Asia-Pacific region. The countries from the latter that had the biggest attendance were China, Japan, and South Korea. We were also very privileged to have the President of the Institute of Physics (IoP), Prof Roy Sambles, attend the joint congress.

The scientific program, which included sessions across



Fig. 1: The President of the AIP, Prof Warrick Couch (right), with the President of the IoP, Prof Roy Sambles.

pretty much all areas of physics, was of a very high quality, with an excellent set of plenary speakers: Alain Aspect, Richard Easter, Jean Jacquino, Takaaki Kajita (winner of the 2015 Nobel Prize in Physics), Youngah Park, David Reitze, Michelle Simmons, and Qui-Kun Xue.

The formal presentation of some of the AAPPS's and AIP's most prestigious prizes and awards also took place at the meeting. These included the AAPPS's CN Yang Awards (Dr Marcus Doherty, Dr Takao Sasagawa, Dr Ling Lu), S. Chandrasekhar Prize of the Plasma Physics Division of AAPPS (2014: Prof Setsuo Ichimaru, 2015: Prof Predhiman Kaw, 2016: Prof Don Melrose), and the AIP's Bragg Gold Medal (Dr Phiala Shanahan), Ruby Payne-Scott Medal (Marcus Doherty), Education Medal (Dr Margaret Wegner), Harrie Massey Medal (Prof Ray Volkas), and Outstanding Service to Physics Award (Dr Cathy Foley).



Fig. 2: The President of the AAPPS, Prof Swan Kim, the President of the AIP, Prof Warrick Couch, and the President of the IoP, Prof Roy Sambles, with local indigenous performers at the joint congress dinner.

At a time when it proved extremely difficult to attract sponsors and exhibitors, a very big vote of thanks should be extended to all the institutions and companies that did support the meeting, particularly the gold sponsors: UQ, QUT, Griffith University, ANSTO, and the ARC Centre of Excellence for Engineered Quantum Systems (EQuS). The AAPPS and Australian Optical Society (AOS) should also be thanked for their support.

There can be no doubt that the meeting was a huge success. It provided a stage not just for physicists from Australia and the Asia-Pacific region to interact and learn about each other's science, but also for new links and collaborations to be forged. It also demonstrated what vibrant and high quality physics communities we have within the Asia-Pacific region, that include many outstanding emerging young physicists.



Fig. 3: The winner of the AAPPS Division of Plasma Physics's S. Chandrasekhar Medal for 2016, Prof Don Melrose (second from left), receiving his medal and certificate from (left to right) the President of the AIP, Prof Warrick Couch, the Chair of the Division of Plasma Physics, Prof Mitsuru Kikuchi, and the President of the AAPPS, Prof Swan Kim.



The First Division Chair Meeting of AAPPS

MITSURU KIKUCHI
AAPPS DIVISION OF PLASMA PHYSICS



Fig. 1: AAPPS officers and division chairs of the First Division Chair Meeting at Mantra South Bank, a hotel in Brisbane. (left to right): Sang Pyo Kim, Tohru Motobayashi, Mitsuru Kikuchi, Seunghwan Kim, Gui-Lu Long, Kazuhiro Tanaka, Hyoung Joon Choi, Woo-Sung Jung.

As of December 2016, the Association of Asia Pacific Physical Societies (AAPPS) has created the following three divisions: the Division of Plasma Physics (DPP), the Division of Astrophysics, Cosmology and Gravitation (DACG), and the Division of Nuclear Physics (DNP). The first division chair meeting of AAPPS was held in Brisbane on December 5, 2016. The meeting was attended by Seunghwan Kim (president); Gui-Lu Long (vice-president), Hyoung Joon Choi (treasurer), Mitsuru Kikuchi (DPP chair), Sang Pyo Kim (DACG, vice chair), Kazuhiro Tanaka (DNP chair), Tohru Motobayashi (DNP Steering Board member), Woo Sung Jung (executive director of the Asia Pacific Center for Theoretical Physics (APCTP)), Jiyong Bak (AAPPS staff member from APCTP) and Eunjeong Lee (AAPPS staff member from APCTP).

President Seunghwan Kim and Vice President Gui-Lu Long noted the importance of the exchange of information among AAPPS divisions. Prior to the meeting, basic information regarding the three divisions was shared and compiled from the three divisions into a table (listed below), which included topics such as membership figures, financial matters, and bylaws. After the participants were introduced, division representatives gave further commentary regarding the current status of their respective divisions, using the following table as a guide.

The importance of division activities for AAPPS was unanimously agreed upon and division activities will become an important core of AAPPS. To ensure such activities, the importance of financial support to the divisions by APCTP is recognized.

Table 1. Basic information of three divisions under AAPPs.

	Division of Plasma Physics	Division of Astrophysics, Cosmology and Gravitation	Division of Nuclear Physics
1. Committees	① M. Kikuchi (Chair), L. Chen (CN), A. Sen (IN), M. Shiratani (JP), Z. Sheng (CN), L. Hau (TW), D. Ryu (KO), M. Hole (AU), T. Onjun (TH), H. Nagai, K. Imadera ② I-HAC: P. Kaw (Chair), A. Hasegawa (JP), C. Yu (CN), R. Dewar (AU), CZ. Cheng (TW), CS Chan (KO), FF Chen (US), R. Hatakeyama (JP), R. Boswell (AU), T. Tajima (US), XT He (CN), K. Mima (JP), K. Shibata (JP), LC Lee (TW), Z. Pu (CN), W. Namkung (KO), M. Sasao (JP), H. Takabe (JP), C. Pan (CN), B. Buti (IN)	① Misao Sasaki (Chair), Australia: Warrick Couch, *Bruce Dawson, Raymond Volkas, and Stuart Wytthe China: *Rong-Gen Cai, Yungui Gong, Xiao-Feng Wang, Shuang-Nan Zhang, Zhong-Hong Zhu Japan: Shu-ichiro Inutsuka, Masaki Mori, Misao Sasaki, Takahiro Tanaka, Jun'ichi Yokoyama Korea: Kiwoon Choi, Gungwon Kang, *Sang Pyo Kim, Sungwon Kim Taiwan: Pisin Chen, Chao-Qing Geng, *Xiao-Gang He, Hoi-Lai Yu *vice-chairs ② Jihn E. Kim, Shih-Chang Lee, Jeremy Mould, Katsuhiko Sato, Yue-Liang Wu	① ANPhA Steering Board: K. Tanaka (Chair), A. Chakrabarti (IN), M.-K. Cheoun (KO), V. Datar (IN), K. I. Hahn (KO), B. Hong (KO), A. Hosaka (JP), D. T. Khoa (VN), W. Liu (CN), Y.-G. Ma (CN), T. Motobayashi (JP), H. Tamura (JP), A. Thomas (AU), H. T. Wong (TW), G. Xiao (CN), F.Xu (CN) ② Observers: A. Bracco (IT - NuPECC), D.-P. Min (KR), S. Nagamiya (JP), H. Sakai (JP), Y. Ye (CN)
2. Membership	① ~1300. Having DPP conferences in various counties may increase regional balance. ② Only CPS-DPP as group member but no information about individual.	① Japan and China have the largest number of members. ② Group membership from Gravitation and Astrophysics Society in Beijing is planned. Other regions including Japan, Korea, Taipei, and Oceania have only individual members.	① China and Japan are the two largest countries. Others are Korea, Australia, Taiwan, Vietnam, and Mongolia. ② None
3. Financial matters	① No ② APCTP support is quite effective. ③ At present, web advertisement and S.C. Prize sponsors. Future, conference fee and DPP journal.	① None ② APCTP supports divisional activities. ③ None at this moment	① None ② APCTP support will be quite effective. (We have not used the support yet, as we are new.) ③ None
4. Annual meeting	① DPP2017 18-23/09/2017, Chengdu IOC chair: Liu Chen, LOC chair: X. Duan	① ICGAC13 (Seoul, July 3-7), CosPA2017 (Dec., Kyoto), AP School on G&C (Hong Kong, 2017)	① ANPhA board meeting once per year, usually with ANPhA Symposium. The most recent one was in Tohoku University, Japan, Nov. 24-25, 2016, LOC chair: H. Tamura We can also discuss DNP matter in the ANPhA board meeting in the future.
5. Division awards	① S.C. award from 2014 ② Young research award from 2016 ③ EPS chair asked to have joint award.	① None at this moment ② None at this moment	① None ② None ③ None
6. Division journals	① Reviews of Modern Plasma Physics Start 2017 (>20 papers committed) ② Only e-mail communication	① AP CosPA Org publishes "The Universe". ② E-mail communications by Pauchy Hwang (editor-in-chief).	① None ② None

	Division of Plasma Physics	Division of Astrophysics, Cosmology and Gravitation	Division of Nuclear Physics
7. Cooperation	① Only AAPPS-DPP send PC member.	① Not yet	① Mutual exchange of observers with NuPECC (NuPECC gives a presentation in the ANPhA board meeting, and vice versa). (NuPECC is not under EPS)
① EPS	We recommend invited speakers.	② Not yet	② No regular communication, but ANPhA is invited to give a talk in NSAC, and vice versa.
② APS	② DPP Chair joins APS-DPP Program Committee (PC).		
8. Bylaws of the divisions	① We will select chair-elect as next chair for continuation.	① EXCO elects the chair and vice-chairs from each country.	① Bylaw of ANPhA exists. Chair is nominated every two years in the board meeting.
① Chair/Chair Elect			We will select chair-elect as next chair for continuation.
9. Legal place	① For contract with Springer-Nature, we use current DPP chair's home as place.	① None	None.
① Legal place of Div.		② Sang Pyo Kim (vice-chair, KPS)	# Web page is maintained at RIKEN Nishina Center (Japan).
② Legal place of Account	② Same for accounts Matter: When we have change in chair.		

Bylaws for AAPPS Divisions (resolved at the 27th Council Meeting, Singapore, June 16, 2012)

1. Purpose

The AAPPS Council shall establish Divisions. In each APPC meeting this Division structure will be fully utilized for session organization. Also, the Division itself may organize its own meetings.

2. Two Types of Divisions

A Division may be either a) a "regular" Division that originates from a specific science field, or; b) an "interdisciplinary" Division that originates from one issue or one instrument while it can span many disciplines.

3. Establishment of Divisions

a) Applications for the formation of a Division should be submitted to the AAPPS President.

The application should state:

- the subject that the Division proposes;
- the category of the Division of either "regular" or "interdisciplinary";

- the rules of the Division;
- the core members of the Division (with at minimum, the name of the Chair), and;
- a web address for the Division, if it exists.

- b) The AAPPS Council must seek approval from no less than four member societies.
- c) Division formation is subject to approval by the AAPPS Council.
- d) The Division can also be terminated by the AAPPS Council.

4. Activities of Divisions

- a) Divisions may organize sessions at the Asia Pacific Physics Conference (APPC) either solely or jointly with other Divisions.
- b) Each Division should report its activities at the AAPPS Council meeting, either in writing or in person.
- c) Each Division may organize its own meetings at any time.
- d) No financial obligations exist between Divisions and the AAPPS Council.