

2023.1.4 Mitsuru Kikuchi, AAPPS-DPP CEO

1. 6th DPP Annual Conference

Division of plasma physics (DPP) annually holding Asia-Pacific conference on Plasma Physics. The sixth annual conference (AAPPS-DPP2022) was held as remote online e-conference using Zoom system from October 9-October 14, 2022. Figure 1 shows Opening session speakers of AAPPS-DPP2022.



Figure 1 Opening session speakers of AAPPS-DPP2022

 Table 1 Distribution of presentations

	Plenary	Top. Pl	Invited	Oral	Poster	Total
Chandrasekhar	1	-	-	-	-	1
Cross Disciplinary	3	10	26	5	0	44
Fundamental	4	14	27	14	5	64
Basic	4	7	38	5	16	70
Applied	4	11	34	6	7	62
Laser plasma	4	7	37	20	4	72
Space/Geomag	4	5	39	7	10	65
Solar/Astro	4	4	31	24	9	72
Magnetic Fusion1	4	6	35	28	7 (inc.MF2)	80
Magnetic Fusion2	4	7	40	5	-	56
Poster Prize	1	-	-	-	-	1
Closing	1	-	-	-	-	1
Total	38	71	307	114	58	588

Table 1 shows distribution of 588 presentations among plenary, topical plenary, invited, oral, and poster for various sub-disciplines. AAPPS-DPP2022 consists of 38 plenary talks, 71 topical plenary talks, 307 invited talks, 114 oral talks, and 58 poster presentations. Crossdisciplinary session focused on Self-organize criticality led by PH Diamond, A. Das, Y. Kosuga having 44 presentations. Fundamental session is fundamental discipline common to all plasma physics area and had joint session with magnetic fusion plasma led by Hui Li, T-H Watanabe, JM Kwon having 64 presentations. Basic session discussed methods common to all plasma physics as well as small scale plasma research and dusty/quantum plasmas led by S. Bhattacharjee, A.A. Mamun, Y. Feng, K. Tanaka, CS Chang, G. Yun, K. Takahashi, R. Srivastava having 70 presentations. Applied session discussed applied plasma physics such as semi-conductor, medicine, agriculture, led by T. Murphy, SY Moon, S. Mukherjee, X. Tu, T. Watanabe,

T. Shao having 62 presentations. Laser plasma session discussed Laser-plasma interaction, Laser fusion, wakefield acceleration led by S. Fujioka, M. Chen, K. Lee, R. Gopal having 72 presentations. Space / Geomagnetism session discussed mostly space plasma physics and magnetic reconnection led by Q. Liu, T. Hada, A. Chian having 65 presentations. Solar/Astro session discussed solar plasma physics and astro plasma physics led by J. Cho, PF Chen, R. Matsumoto having 72 presentations. Magnetic Fusion session 1 (Core plasma) is led by M. Xu, K. Ida, YS Na, WL Zhong having 80 presentations. Magnetic Fusion session 2 (Edge plasma) is led by Y. In, K. Hanada, Ge Zhuang, YM Jeon having 56 presentations. Among them, 2021 S. Chandrasekhar lecture is given by Arnab Rai Choudhuri. We also celebrated 8 U40 winners and 6 U30 winners.

 Table 2
 Regional distribution of participants

Table 2 Regional distribution				or pai	ucipai	ns	
Region	No	Female	Speaker	Region	No	Female	Speaker
China	326	58	200	Netherland	4	0	2
Japan	198	20	101	Russia	4	0	1
India	115	32	66	Spain	3	0	1
USA	110	7	74	Romania	3	0	0
Korea	58	2	24	Czech	3	0	2
France*	42	12	21	Sweden	3	0	3
Germany	29	4	14	Portugal	3	0	2
Australia	18	2	11	Malaysia	2	1	0
Belgium	17	4	9	Singapore	2	0	0
Taiwan	17	1	10	Argentina	2	1	1
England	14	5	8	Thailand	2	0	0
Italy	13	1	7	Nepal	1	0	1
Pakistan	11	3	11	Kazakhstan	1	0	0
Chile	10	2	7	Iran	1	1	1
Swiss	7	0	4	Austria	1	0	0
Brazil	5	1	4	Norway	1	1	1
New Zealand	4	0	2	Total	1030	158	588

* France include ITER organization

Table 2 shows distribution of region/countries and gender balance. This conference was 3rd e-conference held by AAPPS-DPP due to COVID-19 pandemic. Nonetheless, conference was great success to have 1030 participants all over the world while DPP also contributed online APPC-15 conference by 102 speakers (3 plenary, 94 invited, 5 contributed). We have regional distribution of China(326), Japan(198), India(115), USA (110), Korea(58), France(42), Germany(29), Australia(18), Belgium(17), Taiwan(17), England(14), Italy(13), Pakistan(11), Chile(10), Swiss(7), Brazil(5), New Zealand(4), Netherland(4), etc.

While participation from APS (110) and EPS(143) are significant, we had participants from South American countries, Chile(10), Brazil(5), Argentina(2).

As for the gender balance, we had 158 female participants. Many female researchers joined from China and India, especially.

2. AAPPS-DPP S. Chandrasekhar Prize

DPP select S. Chandrasekhar Prize annually to recognize outstanding contributions to plasma physics since 2014. Chandrasekhar prize selection committee chaired by Wonho Choe selected 2023 laureate is Prof. Arnab Rai Choudhuri (IISc). Medal is sponsored by IPR/PSSI.

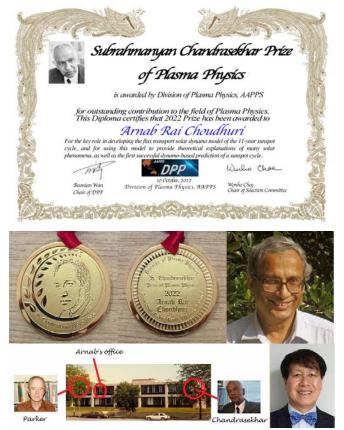


Fig. 2 2022 Chandrasekhar prize certificate, Medal from IPR/PSSI, Arnab Rai Choudhuri, office at University of Chicago, Selection committee chair Wonho Choe

3. AAPPS-DPP Plasma Innovation Prize

Year 2022 is fourth year of "AAPPS-DPP Plasma Innovation Prize" to recognize outstanding contributions to experimental and / or theoretical research in all fields of plasma applications, focusing on impacts on industry.

Plasma Innovation Prize selection committee chaired by R. Boswell informed there is no winner



in 2022.

4. AAPPS-DPP Young Researcher (U40) Award

DPP is recognizing annually young talented plasma researchers not more than 40 years old since 2016 as AAPPS-DPP Young Researcher Award (U40). U40 selection committee chaired by A. Sen selected 8 young talents; Yohei Kawazura (Fundamental, Tohoku Univ.), Swarniv Chandra (Basic, Government General Degree College at Kushmandi), Bhagirath Ghimire (Applied, University of Alabama in Huntsville), Liangliang Ji (Laser, SIOM), Xuzhi (Space, Peking University), Yang Guo (Solar, Nanjing University), Xue-Ning Bai (Astro, Tsinghua University), Kunihiro Ogawa (Magnetic Fusion, NIFS) as U40 winners at DPP2022. Their citations be can seen at http://aappsdpp.org/AAPPSDPPF/youngawardtable.html.

Winners received cash prize 500USD, plates and certificate. Photos of winners, a certificate and plate to Xin Cheng are shown in Fig.3.



Figure 3 2022 AAPPS-DPP Young Researcher Awardees and certificate and plate of Xue-Ning Bai.

5. U30 Scientist and Student Award

DPP is recognizing young talented doctoral scientists/ students not more than 30 years old since 2018 as AAPPS-DPP U30 Doctoral Scientist / Student Award. This award is sponsored by IFE-Forum. 2022 U30 award selection committee chaired by K. Mima selected 2022 Winners; Young Dae Yoon (Basic, Pohang Accelerator Laboratory), Ke Feng (Laser, SIOM), Jie

Feng (Laser, SJTU), Li Li (Space, Peking University), Kosuke Namekata (Solar/Astro, NAOJ), Ting Long (Magnetic Fusion, SWIP) (Figure 4). Winners received cash prize 300USD, plate, and certificate. Their citation can be seen at

http://aappsdpp.org/AAPPSDPPF/U30awardtable.html



Li Li Kosuke Namekata Ting Long Figure 4 AAPPS-DPP U30 Awardees

6. AAPPS-DPP2021 Poster Prize

DPP is recognizing significant poster presentation at the annual conference as AAPPS-DPP Poster Prize since 2018 for both students and young/senior researchers. Among 58 poster presentations, 9 posters (Swati S. Mishra, Sushanta Barman, Hui Wen, Kalyani Barman, Yue Dong, Zhenyu Kong, Sunidhi Singla, Yuji Kotani, Xiaobao Jia, Irem N. Erez, Liu Jiayan, Li Jingwei) were selected by the selection committee chaired by Zheng-Xiong Wang. Winners will receive certificate and a Springer book on plasma physics http://aappsdpp.org/AAPPSDPPF/posteraward.html.

The poster session has been done for full week and large number of participants visited poster Web site during the conference. Number of posters are smaller while we encouraging more discussion in poster session.

7. Springer Session

AAPPS-DPP's business includes "Publication of Journal and academic books" (Article 4). RMPP is official journal of AAPPS-DPP. Vice chair Z. Yoshida is editorial board member of "Springer Series in Plasma Science and Technology". On Oct. 9, we had Springer session on RMPP and Springer book program. Speakers are D. Nakajima (Springer), T. Hada (Guest Editor of Topical Collection: Nonlinear process in Solar-Terrestrial Plasmas), A. Tokuno (Springer), B. Wan (DPP chair), Z. Yoshida (DPP vice-chair).



Introdu @ AAP 9 October 16:30-18:00	PS-DPP 202 2022 (ZoomP)	APP and Springer Book 2 (IST) / 09:30-11:00 (CEST)
Time Table(JS	ST)	
16:30-16:35	Welcome	
16:35-17:10	Journal Publishing Overview	Daisuke Nakajima Publisher, Journals Mathematics, Physical & Applied Sciences Springer Nature
17:10-17:15	Guest Editor's Talk	Professor Tohru Hada Kyushu University, International Research Center for Space and Planetary Environmental Science Guest Editor of Special Issue : Nonlinear Processes In Solar-Terrestrial Plasmas Associate Editor of RMPP: D4 Space/Geomagnetic Plasma Physics
17:15-17:25	Book Program Overview	Aldyuld Tokuno Editor, Books Science Springer
17:25-17:35	Guest Author's talk 1	Professor Baonian Wan Chief Scientist, Institute of Plasma Physics, Chinese Academy of Sciences Chair, AAPFs-DPP Book Author: Man-Made Sun— Experimental Advanced Superconducting Tokamak (EAST) Fusion Reactor. Springer Singapore (2021)
17:35-17:45	Guest Author's talk 2	Dr. Zensho Yoshida Director General, National Institute for Fusion Science Book Series Editor. Springer Series in Plasma Science and Technology Book Author: Nonlinear Science— The Challenge of Complex Systems. Springer Berlin Heidelberg (2010)
17:45-18:00	Q&A	opringer bornin, ricidelberg (2010)
D Springer		

8. RMPP Journal

RMPP is review journal specialized to plasma physics (see Appendix). The 1st volume (2017) published 10 articles. The 2nd volume (2018) published 9 articles and 3rd volume (2019) published 15 articles, 4th volume (2020) published 12 articles, 5th volume (2021) published 13 articles. RMPP board decided to increase number of publications in volume 6 (2022) and published number of papers reached 41 papers.

1st Author	Reference	Article Type	Collection
Golam M. Hossain	1	Review	QP-2(B)
Katsumi Ida	2	Review	Regular(F)
Abdul Mannan	3	Review	QP-3(B)
Gert Brodin	4	Review	QP-4(B)
Amar P. Misra	2 3 4 5 6 7	Review	QP-5(B)
Sharmin Sultana	6	Review	QP-6(B)
Fernando Haas	7	Special Topics	QP-7(B)
Fang Shen	8	Review	Regular(SA)
Muhammad Bilal	9	Review	Regular(MF)
P. Rodriguez-Fernandez	10]	Review	Regular(F)
W. Masood	11	Review	QP-8(B)
Linghua Wang	12	Review	Ŭ 40-5(SG)
Keigo Takeda	13	Special Topics	U40-6(A)
Zheng-Xiong Wang	14	Special Topics	U40-7(MF)
Meng Zhou	15	Review	U40-8(SG)
Sudeep Bhattacharjee	16	Special Topics	Regular(B)
Pankaj Attri	17	Review	BA21-1(A)
Hyeon K. Park	18	Chandra	Chandra-7
Siming Liu	19	Review	Regular(SA)
S. Ratynskaia	20	Review	DP-3(B)
Akanksha Gupta	21	Review	BA21-2(B)
Yasuhiro Nariyuki	22	Review	NLST-1(SG)
Ke Jiang	23	Special Topics	DP-4(B)
Hajime Urano	24	Special Topics	MF21-1(MF)
L.G. Eliseev	25	Special Topics	MF21-2(MF)
Nengchao Wang	26	Special Topics	MF21-3(MF)
Zhongwei Liu	27	Review	BA21-3(A)
Pintu Bandyopadhyay	28	Special Topics	DP-5(B)
Tatanobu Amano	29	Review	U40-9(SA)
Ji Hyun Shin	30	Special Topics	Regular(B)
Uwe Czarnetzki	31	Review	Regular(A)
Jeongwoo Lee	32	Review	Regular(SA)
Santiago V. Dominguez	33	Review	NLST-2(SG)
Abraham CL. Chian	34	Special Topics	NLST-3(SG)
Souvik Das	35	Review	Regular(SG)
Masaru Hori	36	Innovation	PI-1 (A)
Muhammad A. Zafar	37	Review	Regular(A)
Ting Sun	38	Review	HEDP-1(L)
Taiichi Shikama	39	Review	MF21-4(MF)
Suping Duan	40	Review	KAW-1
Tulasi N. Parashar	[41]	Review	NLST-4(SG)



9. Membership Status

APPS-DPP started from 92 founding members in 2014. As of Oct 30, 2020, DPP has 2011 members all over the world. It took 6 years for members to reach two thousands. While it might be difficult to attract all plasma physicists in Asia-Pacific region, there is huge opportunity to increase membership from China, Japan, Korea, Australia as well as ASEAN region. Members of BoD have to take a leadership in encouraging membership registration.

While AAPPS-DPP works mainly at Asia Pacific region, there are large number of US, European and South American members and attracting participation from all over the world.

Table 3 Regiona	l Member di	istribution (b	ov Rui Ding)

	Region	'14.7.24	'20.10.30	'21.11.05	'22.11.17
1.	India	856	793	1197	1183
2.	China	110	440	477	598
3.	Japan	97	308	304	334
4.	Korea	36	123	134	136
5.	US	11	70	91	135
6.	Australia	30	48	52	55
7.	Taiwan	21	35	38	43
8.	Nepal	1	26	30	29
9.	France	1	25	33	42
10.	Thailand	14	18	19	20
11.	Pakistan	0	13	12	16
12.	Germany	0	13	27	34
13.	Malaysia	2	12	14	14
14.	UK	0	12	23	28
15.	Italy	0	11	17	22
16.	Philippines	6	9	9	9
17.	Belgium	0	9	15	16
18.	Indonesia	0	8	5	5
19.	Iran	0	5	5	6
20.	Vietnam	0	4	4	4
21.	Singapore	4	4	5	5
22.	Russia	0	6	9	11
23.	Bangladesh	0	3	3	3
24.	Netherland	0	3	3	2
25.	Lao PDR	0	2	2	2
26.	Austria	0	2	3	3
27.	Canada	0	1	1	1
28.	Czech	0	1	1	2
29.	Egypt	0	1	1	1
30.	Ireland	0	1	1	1
31.	Israel	0	1	1	0
32.	Myanmar	0	1	1	1
33.	Norway	0	1	0	1
34.	Spain	0	1	2	2
35.	Switzerland	0	1	2	7
36.	Sweden	0	0	1	2
37.	Slovakia	0	0	1	1
38.	SaudiArabia	0	0	1	0
39.	Romania	0	0	2	2
40.	Portugal	0	0	1	2
41.	NewZealand	0	0	3	5
42.	Argentina	0	0	0	2
43.	Brazil	0	0	0	1
44.	Chile	0	0	0	3
45.	Columbia	0	0	0	1
46.	Hungary	0	0	0	2
Tota	1	1,212	2,011	2,553	2,792

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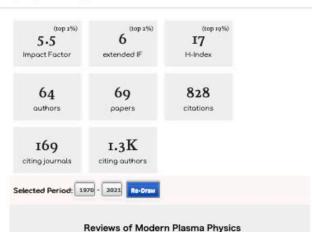
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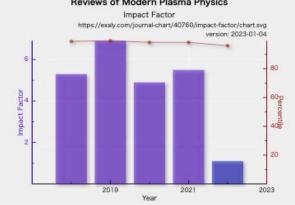
Appendix: Reviews of Modern Plasma Physics

Exaly.com provided useful statistics of RMPP at https://exaly.com/journal/40760/reviews-of-modern-plasma-physics. It is nice to see RMPP is ranked as 1st out of 14 plasma physics journals with exaly impact factor=5.5.

Reviews of Modern Plasma Physics

Physics, Plasma Physics





The graph shows the changes in the impact factor of **Reviews of Modern Plasma Physics** and its the corresponding percentile for the sake of comparison with the entire iterature. Impact Factor is the most common scientometric index, which is defined by the number of citations of papers in two preceding years divided by the number of papers published in those years.

How Influential is Reviews of Modern Plasma Physics?

Reviews of Modern Plasma Physics is the 1st out of 14 Plasma Physics journals. This means the journal is among the top 8% in the sub-discipline of Plasma Physics. This Journal is the 114th out of 2,076 Physics journals. This means the journal is among the top 6% in the discipline of Physics. This Journal is the 603rd out of 12,155 Physical Sciences journals. This means the journal is among the top 5% in the science branch of Physical Sciences.

