



2021 Fiscal Year Work plan of AAPPS-DPP

2020.08.27

AAPPS-DPP CEO M. Kikuchi

1. Introduction

DPP activities in fiscal year 2021 (Sept. 1, 2020 – Aug 31, 2021) will be quite influenced by the COVID-19 pandemic as well as latter half of fiscal year 2020. Major activities shall be 1) Execution of AAPPS-DPP2020 remote e-conference, 2) Preparation of AAPPS-DPP2021 in Fukuoka, Japan, 3) Continued publication of RMPP articles, 4) Selection of DPP prizes and awards, 5) Information dissemination to DPP members via DPP Web and mailing service, 6) Other activities as appropriate.

2. Fourth Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2020 e-conference)

AAPPS-DPP2020 (<http://aappsdp.org/DPP2020/index.html>) will be held as remote on-line e-conference during Oct. 26-31, 2020. Preparation of 4th annual conference was started in 2019 after Hefei conference with NFRI as host institute. Due to COVID-19 pandemic, we decided to have fourth annual conference as on-line e-conference while NFRI becomes “sponsor” instead of “host”. As of August 31, we have 506 oral/invited/topical plenary/plenary speakers and 48 poster presentations. The Zoom system (Webinar and Meeting) is provided by APCTP. Since on-line conference is for the first time for our annual conference, we have to have careful preparation before actual conference.

3. Fifth Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2021)

AAPPS-DPP2021 will be held in Japan. Planned date and place are September 26-October 1, 2021 and Fukuoka, respectively. IOC chair will be new DPP chair Prof. Baonian Wan and LOC chair will be Prof. M. Shiratani. DPP will have financial authority. During fiscal year 2021 (Sept. 1, 2020 – Aug. 31, 2021), most of conference preparation will be made.

Beyond AAPPS-DPP2021 is still not decided yet. But conference place where DPP can have financial authority is crucially important to strength DPP capability. India (Delhi, Prof. A. Das) and Malaysia (Kuala Lumpur?, Prof. Kuru Ratnavelu) are willing to host DPP annual conference.

4. Reviews of Modern Plasma Physics (RMPP)

ISI indexed journal: Number of RMPP publication is still not large enough for Springer-Nature to submit proposal for ESCI evaluation.

Arxiv.org: In the past, Springer-Nature do not want manuscript to be submitted elsewhere as a preprint. But this year, Springer-Nature accepted posting draft manuscript to arxiv.org as a preprint since papers are more cited if preprint can be seen in arxiv.org. We will encourage such submission.

Special Topics: RMPP creates new paper category “Special Topics” especially for young researcher. A Special Topics article is a brief review article that focuses on a specific topic. Its purpose is to highlight emerging research subjects, recent advances in a specific area and/or new research techniques. It can also focus on the authors’ own work or experimental instruments. As such, we especially encourage early career physicists (such as AAPPS-DPP U40 winners) to submit Special Topics articles.



Honorarium for Kanazawa conference papers: Bank transfer of honorarium for Kanazawa conference papers are still problematic since Bank handling charges of both sides are quite high. TransferWise do not accept money transfer from DPP while DPP is legal entity (only company is allowed). Money transfer for some authors is suspended to find more effective way. For example, Prof. Rony Keppens used honorarium as AAPS-DPP2020 registration fee of 5 colleagues in his team. Offering honorarium is quite effective to increase submission of RMPP articles.

5. Prize and Award

5.1 S. Chandrasekhar Prize of Plasma Physics

Call for 2021 S. Chandrasekhar prize is planned early 2021 and selection committee will be set based on distribution of candidates among region/country and sub-disciplines. Chair shall be selected from region of no-candidate. Some improvement on procedure is proposed and improved procedure guideline will be set.

5.2 AAPS-DPP Plasma Innovation Prize

Call for 2021 AAPS-DPP Plasma Innovation Prize is planned early 2021 and selection committee will be set based on distribution of candidates among region/country and sub-disciplines. Chair shall be selected from region of no-candidate.

5.3 APS-DPP & AAPS-DPP joint award

Board of Directors discussed possibility of APS-DPP & AAPS-DPP joint award. But this planning is delayed due to COVID-19 pandemic. DPP will restart discussion with APS-DPP.

5.4 AAPS-DPP Young Research Award

Since 2018, winners of U40 award are receiving cash prize 500USD, plates and certificate. All cost will be covered within annual conference budget. Call for U40 Award is planned early 2021.

5.5 AAPS-DPP U30 Doctoral Scientist / Student Award

AAPS-DPP U30 Doctoral Scientist / Student Award is sponsored by IFE-Forum. Winners will receive cash prize 300USD, plate, and certificate. All cost will be covered by IFE-Forum. Call for U30 Award is planned early 2021.

5.6 AAPS-DPP Poster Award

DPP is recognizing significant poster presentation at the annual conference as AAPS-DPP Poster Prize since 2018 for both students and young/senior researchers. Winner will receive certificate and a gift (Springer Book). 2020 selection will be made during AAPS-DPP2020 on-line e-conference.

6. Financial Support Program

DPP continues to have financial support program for researchers from developing countries and retired researchers supported by Asia-Pacific Center for Theoretical Physics (APCTP). Annual budget from APCTP has been 10,000,000 KRW. AAPS president informed us that support budget from APCTP to DPP may be reduced if the new divisions on condensed matter are formed.

7. AAPS-DPP Membership

More encouragement to become DPP member has to be done in all country/regions stressing merits to become member such as, 1) AAPS-DPP membership does not need any membership fee. But DPP member receives many merits as DPP member, 2) DPP member can participate DPP conference with reduced registration fee, 3) DPP member has free access to our official journal RMPP using the token service, 4) DPP member can receive DPP News



including conference information, job opportunity, DPP's event information, new book information, etc, 5) Eligibility to be nominated to various DPP prizes and awards. DPP will try to provide more scientific merit to DPP members as member wishes.

AAPS has concluded reciprocating agreement with APS. However, there is little merit at present since each member is already member of national physical society that has reciprocating agreement with APS.

8. AAPS-DPP Homepage

DPP Executive officer Dr. H. Nagai provided long-standing service from its initiation in 2014. From 2014 to 2018, he worked voluntarily without payment. Now DPP pays very small salary from April 2019 for his outstanding contribution.

9. Committees

9.1 General Assembly

In the third fiscal year (Sept. 1 2020-Aug 31 2021), we will have general assembly using Zoom on Oct 31 (Saturday). This is inevitable due to COVID-19 pandemic. Agenda items are 1) Approval of list of Board of Directors including next Chair-elect, 2) Approval of Business report for FY2020, 3) Approval of FY2020 Balance sheet, FY2020 Net property change statement, Breakdown table of net property change statement for FY2020.

While DPP called for elector of Chair-Elect, only three applied and BoD must assign ~150 electors. Call for nomination of Chair-Elect must be done soon.

9.2 Board of Directors

After the general assembly on Oct. 31, membership of BoD will be updated and BoD shall decide role of each directors. Matter other than items to be decided at the general assembly will be set at the BoD.

9.3 I-HAC (International Honorary Advisory Committee)

DPP continues I-HAC as advisory body for BoD. In new fiscal year, there should be some re-assignment of members. We will ask I-HAC chairs to propose renewed I-HAC membership.

10. DPP Budget Balance Sheet

FY2019: 2018.11.28-2019.08.31, FY2020: (2019.9.1-2019.08.31)

*: Unit : JPY if not specified.

Item	2019 Result	2020 Plan	2020 Result	2021 Plan	Note for 2020 expenditure
Income (JPY)	13,784,703	11,775,324	13,582,837	15,278,254	
1. Carry over	0	11,495,324	11,495,324	6,738,254	DPP account and cash
2. Annual conf.	13,502,299	0	0	7,000,000	*: DPP2019 budget handled by LOC is Table 1-1
3. RMPP	282,351	280,000	286,912	280,000	
4. APCTP sup.	NA	KRW10,000,000	913,074	910,000	
5. Chandra (ENN)			537,450	-	
6. U30(IFE)	-	-	350,000	350,000	
7. Interest	53	0	77	0	
Income (USD)	USD 772	USD 10,572	USD 5,572	USD 16,302	
1. Carry over	USD 772	USD 772	USD772	USD1,302	
2. APPC-14		USD2,300(MIP)	USD2,300	-	*: APPC-14 budget balance is given at Table 2
3. Chandra sponsor		USD2,500(Top)	USD2,500	USD5,000	
		USD5,000(ENN)	-	-	
4. Sponsor (NFR)			-	USD10,000	
Expenditure	13,784,703	11,775,324	13,582,837	15,278,254	
	USD 772	USD 10,572	USD 5,572	USD 16,302	
1. Admin. Cost					
M. of Justice	10,600	10,108	10,000	12,000	Register 3 BoD members
State Tax	7,300	7,300	-7,300	0	Ibaraki-prefectural tax returned (Non-profit organization)
City Tax	-	20,000	0	0	City tax waived (Non-profit organization)
PC& MAC(Air/Pro)	599,340	-	0	0	
HD& cable	32,470	-	0	0	
MAC/PC soft		-	70,893	100,000	Office, Adobe
Printer Toner	43,297	50,000	19,228	50,000	Brother MFC-L3770
Printer Paper	1,684	2,000	2,434	4,000	A4 paper 497x 2 + Kent paper 50(1.650)
DPP Phone	41,688	-	-	-	
Phone use	31,678	120,000	71,309	120,000	Sep.1-July31 (Aug to be added)
Biz Station	6,912	20,736	21,056	21,120	
Step server	15,160	15,430	14,160	14,160	
Handling charge	6,642	12,960	26,690	27,000	Mitsubishi UFJ Bank (Furikomi, etc.)
Traffic cost	6,088		37,608	100,000	DPP&APPC (12.850+20.706), Printer4,052
Other cost			2,505	100,000	Postal stamp 84yen x 20, VISA member (825)
TOYO company		630,000	713,482	2,000,000	Nomination & Abstract sites & e-conf site
Sub-total	802,859	888,534	982,065	2,548,280	
2. Staff cost					
Remuneration	1,466,300	3,181,440	3,211,660	3,200,000	
Gov. Tax	20,220	80,880	54,800	65,000	
Pension & Insurance	-	683,520	682,980	685,000	56,960/M x 12 ((28,140 +680) x12 by Inc.)
Sub-total	1,486,520	3,945,840	3,949,440	3,950,000	
3. Publication cost					
32 papers (2018)	0	1,600,000	100,000	500,000	Y. Feng, Y. Ebihara, (R. Keppens)
					2021: K.Ostrikov, V.Yadav, H.Saleem, F.Sahraoui, A. Das, T.Blackburn, Y. Ezoe, G. Ganguli, Cong Yu, W. Zhong.
4. Financial supp.	0	KRW10,000,000	913,074	910,000	=7,455USD+84,310
			81,154-USD730		
5. Prize&Award					
Chandra cash1		USD5,000	537,450	USD5,000	K. Shibata (Bank transfer to Kyoto)
Chandra cash2		USD5,000	USD5,000		Liu Chen (Bank transfer to US)
Innovation Cash			-	USD3,000	
Innovation Medal		10,000	20,240	20,240	
U40 cash		0		USD3,500	500USD x 7
U40 plates		0		70,000	U40 plates x 7
U30 cash		0	200,880	USD2,100	300USD x 7
U30 plates		0	60,060	70,000	U30 plates x 7
Poster prize				100,000	Springer books
Other cost			220		envelope
6. Carry Over	11,495,324	4,422,343	6,738,254	7,109,734	
	USD772	USD572	USD1,302	USD2,702	

Table 1-1 AAPPS-DPP2019 budget balance (operated by LOC)

Report on AAPPS-DPP 2019 Budget balance 2019.12.17

2019.12.17 Ge Zhuang

Audited by

Signature

1 Income

Item	Sub-item	Value	Note
Registration fee		1,077,461.00	
Sponsor	CAEP	8,000.00	
Total		1,085,461.00	

2 Expenditure(debit)

Number	Item	Value	Note
(1)Material production fee		85,214.24	
a	Conference kit / pen / notebook	14,950.00	
b	Program book	5,390.00	
c	USB, souvenirs, etc.	36,694.00	
d	Name card	3,344.00	
e	Poster board	11,760.00	
f	Truss	6,960.00	
g	Banner	200.00	
h	Trophy / Certificate	1,800.00	
i	Sikar	120.00	
j	Welcome card	210.00	
k	Hefei City Flyer	220.00	
m	Other printing fees	3,566.24	
(2)Computer rental fee		11,616.00	
(3)Venue fee		373,200.00	
a	LED screen rental fee	21,600.00	3*6*2
b	Venue rental	350,000.00	70,000yuan per day
c	Lease fee for podium	1,600.00	
(4)Accommodation fee		71,146.61	
a	LOC staff and financial assistance personnel	50,906.50	
b	Make up	20,240.11	
(5)Repast fee		174,048.00	
a	Reception	21,200.00	
b	Banquet	48,456.00	
c	Buffet	100,392.00	
d	Lunch box	4,000.00	
(6)Transportation fee		62,304.00	
a	Participant transportation fee	12,304.00	
b	Travel expenses for financial assistance	50,000.00	
(7)Photography fee		5,100.00	
(8)Coffee break		90,000.00	
(9)Award		46,650.00	
a	Cash for U40 award and one Innovation prize	42,900.00	
b	Poster award	3,750.00	Six books(Modern Plasma Physics)
(10)Tour		4,420.00	
a	Shouxian	3,720.00	
b	East	700.00	
(11)Work allowance		23,700.00	
a	Volunteer and staff allowance	17,900.00	
b	Temporary translator	400.00	
c	Other staff	5,400.00	
(12)Taxes and conference management fees		84,459.00	
Total		1,031,857.85	

Table 1-2 AAPPS-DPP2019 DPP budget balance

a) Income (credit)

Item	date	Value (JPY)	Note
U30 support	10.28	350,000	IFE Forum
Total		350,000	

b) Expenditure (debit)

Item	date	Value (JPY)	Note
Poster prize certificate	10.18	1,650	Printed in Naka
U30 plates, envelope	10.28	60,830	To Mima
U30 cash	10.28	200,880	300USD x 6
RMPP honorarium	10.28	50,000	To Yang Feng
Innovation medal	10.31	20,790	For Rod Boswell
In Japan Traffic & USB	11.1-9	19,400	Nagai(13,400)&Kikuchi(6000) Narita
TOYO company	11.28	714,552	Web system
Total		1,068,102	

c) Balance

Balance (credit-debit)		△718,102	
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Table 2 APPC-14 budget balance

a) Income (credit)

Item	date	Value (JPY)	Value (USD)	Note
APPC-14 Web	11.01		2,300	MIP
Chandrasekhar sponsor	11.05	537,450		ENN
APCTP support to DPP	11.14	913,074		APCTP
Chandrasekhar sponsor	11.15		2,500	MIP
Total		1,450,524	4,800	

b) Expenditure (debit)

Item	date	Value (JPY)	Value (JPY)	Note
Chandra envelope	11.14	200		
Chandra cash	11.28	538,220		To K. Shibata inc. handling charge
Chandra cash	11.29	9,400	5,000	To L. Chen inc. handling charge
Financial support	11.17-21	913,074		7,455USD+84,310JPY
Kikuchi expense	11.22	14,366		Japan Traffic, Kuching stay
Total		1,475,260	5,000	

c) Balance

Balance (credit-debit)		△23,736	△200	
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11. DPP Property List

Item	Item ID	Value	Note
DPP Printer-1	DPP-2019-001	86,826	Brother MFC-L3770CDW(Kanazawa conf.)
DPP Printer-2	DPP-2019-002	86,826	Brother MFC-L3770CDW(Kanazawa conf.)
DPP PC-1	DPP-2019-003	216,864	Mac Book Air
DPP PC-2	DPP-2019-004	237,000	Mac Book Pro
DPP PC-3	DPP-2019-005	145,476	NEC Lavie



Appendix 1: 2020 DPP Activities (Sept. 1,2019-Aug 31, 2020)

1. Membership

DPP secretary Dr. Yong Liu reported country/regional distributions as of 2020.07.29 as follows.

Country/Region	'19.6.4	'20.7.29	Country/Region	'19.6.4	'20.7.29	Country/Region	'19.6.4	'20.7.29
1. India	782	787	13. Malaysia	12	12	25. Lao PDR	2	2
2. Beijing	371	436	14. UK	9	12	26. Austria	-	2
3. Japan	278	303	15. Italy	9	10	27. Canada	1	1
4. Korea	106	122	16. Philippines	8	9	28. Czech	1	1
5. US	51	69	17. Indonesia	8	8	29. Egypt	1	1
6. Australia	45	48	18. Iran	5	5	30. Ireland	1	1
7. Taipei	30	35	19. Vietnam	4	4	31. Israel	1	1
8. Nepal	26	26	20. Singapore	4	4	32. Myanmar	1	1
9. France	17	22	21. Russia	2	4	33. Norway	-	1
10. Thailand	18	18	22. Bangladesh	3	3	34. Spain	-	1
11. Pakistan	13	13	23. Belgium	2	3	35. Switzerland	1	1
12. Germany	10	13	24. Netherland	3	3	Total	1,825	1,982

2. DPP Homepage

DPP executive director Dr. H. Nagai continuously developing DPP homepages including annual conference pages.

DPP Homepage

AAPPS-DPP2019 conference Web.



3. Mailing services

We use commercial mailing service system “Step Server” with annual fee of 14,160 JPY. DPP news such as conference information, job opportunities, Journal status, Announcements of DPP prizes are sent by CEO.

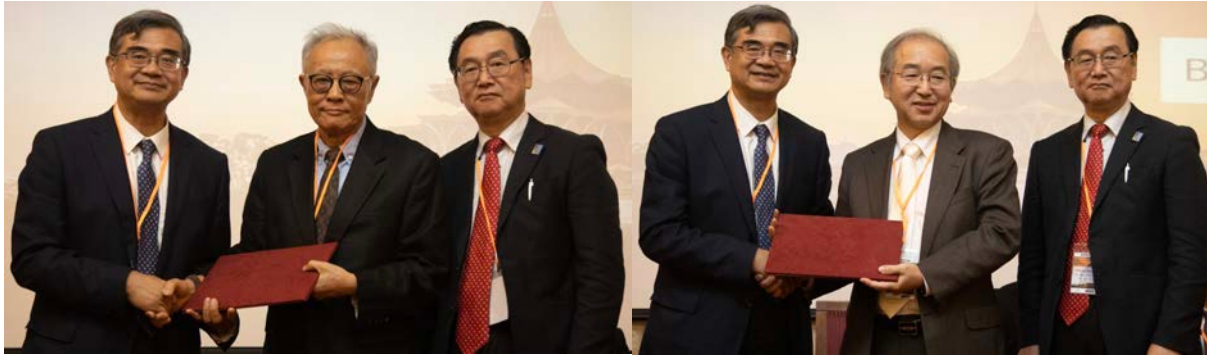
4. Reviews of Modern Plasma Physics

RMPP is review journal specialized to plasma physics. The first volume (2017) published 10 articles. The second volume (2018) published 9 articles and third volume (2019) published 15 articles. All DPP members has free access to RMPP articles. To provide more easy access, sharable links are provided. New sub-discipline D6 Magnetic Fusion Plasma Physics is started. Chief editor for MF is Prof. Jiaqi Dong, Associate Editors are Prof. Guo Yong Fu and Prof. Katsumi Ida.

Authors	Title	Article number	DOI	Sharable link
G. K. Park, et al	Shocks in collisionless plasmas	Rev. Mod. Plasma Phys. (2017) 1:1	DOI 10.1007/s41614-017-0003-4	https://rdcu.be/bGrrg
P. Kaw	Nonlinear laser-plasma interactions [Chandrasekhar Lecture]	Rev. Mod. Plasma Phys. (2017) 1:2	DOI 10.1007/s41614-017-0005-2	https://rdcu.be/bGrr0
H. Tanaka, et al.	State of the art in medical applications using non-thermal atmospheric pressure plasma	Rev. Mod. Plasma Phys. (2017) 1:3	DOI 10.1007/s41614-017-0004-3	https://rdcu.be/bGrrb
P. H. Yoon	Kinetic instabilities in the solar wind driven by temperature anisotropies	Rev. Mod. Plasma Phys. (2017) 1:4	DOI 10.1007/s41614-017-0006-1	https://rdcu.be/bGrrE
D. B. Melrose	Coherent emission mechanisms in astrophysical plasmas [Chandrasekhar Lecture]	Rev. Mod. Plasma Phys. (2017) 1:5	DOI 10.1007/s41614-017-0007-0	https://rdcu.be/bGrrY
S. Ichimaru	Phase transitions, interparticle correlations, and elementary processes in dense plasmas [Chandrasekhar Lecture]	Rev. Mod. Plasma Phys. (2017) 1:6	DOI 10.1007/s41614-017-0008-z	https://rdcu.be/bGrrf
R. Hatakeyama	Nanocarbon materials fabricated using plasmas	Rev. Mod. Plasma Phys. (2017) 1:7	DOI 10.1007/s41614-017-0009-y	https://rdcu.be/bGrrn
A. Sen	Obituary: Predhiman Krishan Kaw	Rev. Mod. Plasma Phys. (2017) 1:8	DOI 10.1007/s41614-017-0012-3	https://rdcu.be/bGrrG
H. Sugama	Modern gyrokinetic formulation of collisional and turbulent transport in toroidally rotating plasmas	Rev. Mod. Plasma Phys. (2017) 1:9	DOI 10.1007/s41614-017-0010-5	https://rdcu.be/bGrua
Q. Zong et al.	The interaction of ultra-low-frequency pc-3 waves with charged particles in Earth's magnetosphere	Rev. Mod. Plasma Phys. (2017) 1:10	DOI 10.1007/s41614-017-0011-4	https://rdcu.be/bGrvq
Reviews of Modern Plasma Physics Volume 2 https://link.springer.com/journal/41614/2/1				
A. Hillier	The magnetic Rayleigh-Taylor instability in solar prominences	Rev. Mod. Plasma Phys. (2018) 2:1	DOI 10.1007/s41614-017-0013-2	https://rdcu.be/bYIZi
A.E. Dubinov, et al	Above the weak nonlinearity: super-nonlinear waves in astrophysical and laboratory plasmas	Rev. Mod. Plasma Phys. (2018) 2:2	DOI 10.1007/s41614-018-0014-9	https://rdcu.be/bYIZd
J. Li, et al	Summary of magnetic fusion plasma physics in 1st AAPPS-DPP meeting	Rev. Mod. Plasma Phys. (2018) 2:3	DOI 10.1007/s41614-018-0015-8	https://rdcu.be/bYITQ
O. Baranov, et al	Towards universal plasma-enabled platform for the advanced nanofabrication: plasma physics level approach	Rev. Mod. Plasma Phys. (2018) 2:4	DOI 10.1007/s41614-018-0016-7	https://rdcu.be/bYITo
F. Chen, et al.	Recent progress in Asia-Pacific solar physics and astrophysics	Rev. Mod. Plasma Phys. (2018) 2:5	DOI 10.1007/s41614-018-0017-6	https://rdcu.be/bYITi
A. Sen	Summary of basic plasma physics sessions at the first Asia Pacific Plasma Conference, 2017	Rev. Mod. Plasma Phys. (2018) 2:6	DOI 10.1007/s41614-018-0018-5	https://rdcu.be/bYIX6
D. Moseev, et al.	Recent progress in fast-ion diagnostics for magnetically confined plasmas	Rev. Mod. Plasma Phys. (2018) 2:7	DOI 10.1007/s41614-018-0019-4	https://rdcu.be/bYIXV
Z.M. Sheng	Summary of laser plasma physics sessions at the first AAPPS-DPP conference	Rev. Mod. Plasma Phys. (2018) 2:8	DOI 10.1007/s41614-018-0020-y	https://rdcu.be/bYIXh
D.F. Escande et al	Basic microscopic plasma physics from N-body mechanics - A tribute to Pierre-Simon de Laplace	Rev. Mod. Plasma Phys. (2018) 2:9	DOI 10.1007/s41614-018-0021-x	https://rdcu.be/bYIXl
Reviews of Modern Plasma Physics Volume 3 https://link.springer.com/journal/41614/3/1				
Y. Todo	Introduction to the interaction between energetic particles and Alfvén eigenmodes in toroidal plasmas	Rev. Mod. Plasma Phys. (2019) 3:1	DOI 10.1007/s41614-018-0022-9	https://rdcu.be/bYKqB
S. Fujita	Response of the magnetosphere-ionosphere system to sudden changes in solar wind dynamic pressure	Rev. Mod. Plasma Phys. (2019) 3:2	DOI 10.1007/s41614-019-0025-1	https://rdcu.be/bYKqL
K. Takahashi	Helicon-type radiofrequency plasma thrusters and magnetic plasma nozzles	Rev. Mod. Plasma Phys. (2019) 3:3	DOI 10.1007/s41614-019-0024-2	https://rdcu.be/bYKqF
M. Xu et al	Summary of the fundamental plasma physics session in the first AAPPS-DPP conference	Rev. Mod. Plasma Phys. (2019) 3:4	DOI 10.1007/s41614-019-0028-y	https://rdcu.be/bYKqJ
Z. Zhang et al	A review of the characterization and optimization of ablative pulsed plasma thrusters	Rev. Mod. Plasma Phys. (2019) 3:5	DOI 10.1007/s41614-019-0027-z	https://rdcu.be/bYKq2
D.R. Lev et al	Recent progress in research and development of hollow cathodes for electric propulsion	Rev. Mod. Plasma Phys. (2019) 3:6	DOI 10.1007/s41614-019-0026-0	https://rdcu.be/bYKq7
O. Baranov, et al	Direct current arc plasma thrusters for space applications: basic physics, design and perspectives	Rev. Mod. Plasma Phys. (2019) 3:7	DOI 10.1007/s41614-019-0023-3	https://rdcu.be/bYKqj
J. Weiland et al	A. Drift wave theory for transport in tokamaks	Rev. Mod. Plasma Phys. (2019) 3:8	DOI 10.1007/s41614-019-0029-x	https://rdcu.be/bYKqk
M.Y. Tanaka	Vortex in plasma	Rev. Mod. Plasma Phys. (2019) 3:9	DOI 10.1007/s41614-019-0031-z	https://rdcu.be/bYKqI
Y. Feng et al	Dynamics and transport of magnetized two-dimensional Yukawa liquids	Rev. Mod. Plasma Phys. (2019) 3:10	DOI 10.1007/s41614-019-0032-z	https://rdcu.be/bYKqy
D. Kahnfeld et al	Numerical modeling of high efficiency multistage plasma thrusters for space applications	Rev. Mod. Plasma Phys. (2019) 3:11	DOI 10.1007/s41614-019-0030-4	https://rdcu.be/bYKqV
F. Taccogna et al	Latest progress in Hall thrusters plasma modelling	Rev. Mod. Plasma Phys. (2019) 3:12	DOI 10.1007/s41614-019-0033-1	https://rdcu.be/bYKqF
G. Manfredi et al	Phase-space modeling of solid-state plasmas	Rev. Mod. Plasma Phys. (2019) 3:13	DOI 10.1007/s41614-019-0034-0	https://rdcu.be/bYKqA
R. Keppens et al	Ideal MHD instabilities for coronal mass ejections: interacting current channels and particle acceleration	Rev. Mod. Plasma Phys. (2019) 3:14	DOI 10.1007/s41614-019-0035-z	https://rdcu.be/bYKqP
Y. Ding et al	Extending service life of hall thrusters: recent progress and future challenges	Rev. Mod. Plasma Phys. (2019) 3:15	DOI 10.1007/s41614-019-0036-y	https://rdcu.be/bYKqT
Reviews of Modern Plasma Physics Volume 4 https://link.springer.com/journal/41614/4/1				
J. Hong et al	Plasma-digital nexus: plasma nanotechnology for the digital manufacturing age	Rev. Mod. Plasma Phys. (2020) 4:1	DOI 10.1007/s41614-019-0039-8	https://rdcu.be/bYKqE
Y. Ebihara et al	Evolution of auroral substorms as viewed from MHD simulations: dynamics, energy transfer and energy conversion	Rev. Mod. Plasma Phys. (2020) 4:2	DOI 10.1007/s41614-019-0037-x	https://rdcu.be/bYKqY
H. Saleem et al	Theoretical models for unstable IAWs and nonlinear structures in the upper ionosphere	Rev. Mod. Plasma Phys. (2020) 4:3	DOI 10.1007/s41614-019-0038-9	https://rdcu.be/bYKqI
F. Salaoui et al.	Magnetohydrodynamic and kinetic scale turbulence in the near-Earth space plasmas: a (short) biased review	Rev. Mod. Plasma Phys. (2020) 4:4	DOI 10.1007/s41614-020-0040-2	https://rdcu.be/bYKq0
T.G. Blackburn	Radiation reaction in electron-beam interactions with high-intensity lasers	Rev. Mod. Plasma Phys. (2020) 4:5	DOI 10.1007/s41614-020-0042-0	https://rdcu.be/bYKqH
A.E. Dubinov et al.	Research with plasma foci in countries of Asia, Africa, and Latin America	Rev. Mod. Plasma Phys. (2020) 4:6	DOI 10.1007/s41614-020-0041-1	https://rdcu.be/bYKqM
T. Tajima et al.	Wakefield acceleration	Rev. Mod. Plasma Phys. (2020) 4:7	DOI 10.1007/s41614-020-0043-z	https://rdcu.be/bYKqX
DB Melrose	Quantum kinetic theory for unmagnetized and magnetized plasmas	Rev. Mod. Plasma Phys. (2020) 4:8	DOI 10.1007/s41614-020-0044-8	https://rdcu.be/bYKq4

5. APPC-14 (APPC2019)

APPC-14 was held at Kuching, Malaysia during Nov. 17-21, 2019. DPP shares 3 session rooms (Basic and Applied Plasma, Astro Plasma, Magnetic Fusion Plasma) during the conference with total participants of 89, which has been taken care by DPP vice chair Prof. R.S. Rawat (Nanyang Technological Univ.). 2019 S. Chandrasekhar Prize laureates Prof. Kazunari Shibata (Kyoto Univ.) and Prof. Liu Chen (Zhejiang Univ.) gave plenary talks at APPC-14. As in the APPC-13 in Brisbane, AAPPS-DPP Chandrasekhar Prize ceremony is held during the conference banquet. As in the APPC-13 in Brisbane, AAPPS-DPP Chandrasekhar Prize ceremony is held during the conference banquet. Certificates are handed over to two laureates by the President of AAPPS Prof. Gui-Lu Long (Tsinghua Univ.).



AAPS president GL Long hands over certificates to 2019 S. Chandrasekhar Prize of Plasma Physics.



Group photo of APPC-14 at Borneo Convention Center



Three CN Yang Award winners (2nd, 4th, 6th)



Vice chair R. Rawat and DPP participants from India



APPC-14 opening ceremony

In this conference, both DPP (APCTP support for DPP:913,074 JPY) and LOC (Malaysian Institute of Physics: MIP) provided financial supports to 26 participants. MIP also paid 2,300 USD for APPC-14 Web at DPP Homepage. Chinese gas company ENN provided sponsorship for cash prize for one S. Chandrasekhar Laureate. Top Globe in Malaysia also sponsored half cash prize for one S. Chandrasekhar Laureate.

6. AAPPS-DPP2019

The third annual conference (AAPPS-DPP2019) was held at Hefei hosted by Prof. Ge Zhuang in USTC during November 4-8, 2019. Total number of participants of the third annual conference was 392. Table 1 shows distribution of 431 presentations among plenary, invited, oral, and poster for various sub-disciplines. Since DPP participated to APPC-14 at Kuching as well (DPP participants to APPC-14 is 89), number of participants to Hefei annual conference (392) were less than Kanazawa conference (682). Hefei conference was hosted by USTC (LOC chair: DPP vice chair Prof. Ge Zhuang). Since Gov. law do not allow DPP to take financial responsibility nor transfer money to DPP, conference budget (Total income mainly registration fee: 1,074,068 Yuen~16,649,450JPY~ 155,539 USD) is handled locally by the LOC team headed by Prof. Ge Zhang (DPP vice chair for AAPPS-DPP2019). DPP owed deficit due to payment to conference support company in Japan.

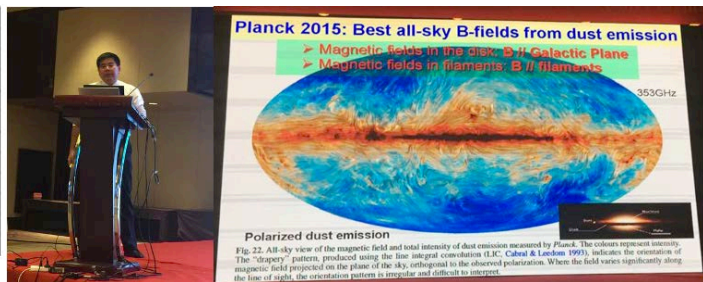


Group photo of AAPPS-DPP2019 in Hefei

	Plenary	Invited	Oral	Poster	Total
Plasma Innovation Prize	1				1
Evening talks	3				3
Cross Disciplinary	5	20	4	6	35
Fundamental plasma	3	15	11	10	39
Basic plasma	5	29	7	17	58
Applied plasma	5	20	11	9	45
Laser plasma	6	35	8	2	51
Space/Geomag plasma	7	24	6	9	46
Solar/Astro plasma	5	20	9	2	36
Magnetic Fusion plasma	5	43	39	30	117
Total	45	206	95	85	431

*: Plenary includes summary and evening talks, Laser invited includes semi-plenary

Distribution of presentations



Prof. JinLin Han Plenary Talk on Galactic magnetic field



Floor view of participants in AAPPS-DPP2019 in Crown Plaza Hotel

6.1 AAPPS-DPP Plasma Innovation Prize

A new annual prize called the “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. The first laureate of this prize is Prof. Roderick W. Boswell (Australian National University) in 2019 especially for his invention of “Helicon plasma source”. Award ceremony was held at the opening session. Plasma Innovation cash prize (3000USD/person) was given within the AAPPS-DPP2019 local budget. Laureate also received medal and certificate from DPP.



2019 Plasma Innovation Prize Laureate Prof. R. Boswell with selection committee representative Prof. Y.K. Pu

6.2 AAPPS-DPP Young Research (U40) Award

DPP is recognizing annually young talented plasma researchers not more than 40 years old since 2016 as AAPPS-DPP Young Research Award (U40). DPP celebrated 6 young talents (Min Chen (Laser plasma, SJTU), Wei Chen (Magnetic Fusion plasma, SWIP), Hui Tian (Solar plasma, PKU), Rongsheng Wang (Space plasma, USTC), Zhiyong Qiu (Fundamental plasma), Keigo Takeda (Applied plasma, Meijo Univ.) as U40 winners at DPP2019. Winners received cash prize 500USD, plates and certificate.



Six 2019 AAPPS-DPP Young Research Awardees. Min Chen receive certificate from Chair (Liu Chen)

6.3 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. 2019 Winners are Sidip Mandal (Solar plasma, Max Planck Institute for Solar System Research),

Xiaofei Shen (Laser plasma, PKU), Zhisong Qu (Magnetic Fusion Plasma, ANU), Masahiro Yano (Laser Plasma, Osaka Univ.), Rupak Mukherjee (Fundamental plasma, IPR), Weixin Guo (Magnetic Fusion Plasma, HUST). Winners received cash prize 300USD, plate, and certificate.



Sudip Mandal Xiaofei Shen Zhisong Qu



Masahiro Yano Rupak Mukherjee Weixin Guo



Six 2019 U30 Doctoral Scientist / Student Awardee and Weixin Guo receive certificate from Chair (K. Mima)

6.4 AAPPS-DPP2019 Poster Prize

DPP is recognizing significant poster presentation at the annual conference as AAPPS-DPP Poster Prize since 2019 for both students and young/senior researchers. Among 85 poster presentations, 20 posters were selected. Winners received certificate and a gift (Springer book on plasma physics) <http://aappsdp.org/AAPPSDPPF/posteraward.html>.

7. Legal Activities

7.1 General Assembly

In the second fiscal year (Sept. 1 2019-Aug 31 2020), large number of regular members from AAPPS-DPP2019 is expected but the registration fee can't be collected by DPP due to Chinese regulation. This means no new regular members can be added. Therefore, regular members were founding members for legal entity (M. Kikuchi, M. Shiratani, H. Nagai, Y. Uesugi). We held 3 general assemblies. See <http://aappsdp.org/DPPhoujin/record.html>

First one was held on Sept.12, 2019 to add M. Krishnamurthy as BoE member.

Second one was held on Oct. 7, 2019 to approve 1) Business report for FY2019, 2) FY2019 Balance sheet, 3) FY2019 Net property change statement, 4) Break down table of net property change statement for FY2019.

Third one was held on March 19,2020 to amend Articles of Incorporation so that only CEO is representative director legally representing this society to conclude agreements and contracts, while originally both Chairman and CEO shares such responsibility.

7.2 Board of Directors (BoD) meeting

In the second fiscal year (Sept. 1 2019-Aug 31 2020), we held 8 BoD meetings.

First one was held on Sept.20-24, 2019 to define roles of each directors.

Second one was held on Oct. 1-4, 2019 to approve annual report and financial statements for the last fiscal year [from November 28, 2018 to August 31, 2019] and financial statements.

Third one was held on Nov. 5, 2019 at Hefei to discuss AAAPPS-DPP2020.

Fourth one was held on Dec. 21, 2019 – Jan. 11 2020 to approve 1) APPC-14 report by Vice chair R. Rawat, 2) AAPPS-DPP2019 report by Vice chair G. Zhuang, 3) AAPPS-DPP2019 and APPC-14 Budget Balance by Chair&CEO M. Kikuchi.

Fifth one was held on Jan.15-26 2020 to propose amended Articles of Incorporation to general assembly.

Sixth one was held on Feb.27-March 8 2020 to discuss AAPPS-DPP Bylaw of chair-elect selection.

Seventh one was held on March 31-April 8 2020 to approve AAPPS-DPP Bylaw of chair-elect selection and AAPPS-DPP By Law on regular member's liability for expense.

Eighth one was held on Aug 28-31 2020 to approve FY2021 (Sept. 1,2020-Aug. 31, 2021) business plan.



Appendix 2: Historical notes before Aug. 31, 2019

Foundation: AAPS-DPP was created in 2014 as voluntary organization based on the AAPS council decision on January 20 at Taipei based on the proposal of 92 founding members. Since then, we made significant progress in developing our activities.

DPP membership: AAPS-DPP started from 92 founding members in 2014. Since then, Dr. Kenji Imadera (Kyoto University) helped to recording membership. Dr. Yong Liu (ASIPP) took over him after Chengdu conference as new DPP secretary till AAPS-DPP2020.

First DPP Ex-Co: First DPP Executive Committee (ExCo) was held on February 27, 2014.

DPP Homepage: AAPS-DPP's homepage (<http://aappsdp.org/AAPPSDPPF/index.html>) started since 11 March 2014 as developed by Dr. H. Nagai.

Mailing System: Mailing service to DPP members started on 1 May 2014 using JAEA mail server and moved now to commercial system.

DPP LOGO: DPP LOGO was defined in 17 July 2014.

S. Chandrasekhar Prize: Foundation of S. Chandrasekhar Prize of Plasma Physics was decided based on recommendation of I-HAC on 30 July 2014 and DPP selected Laureate(s) 6 times (2014, 2015, 2016, 2017, 2018, 2019). Sponsorship of Chandrasekhar cash prize (5000USD/person) has been provided by number of organizations such as Chengdu Tongchuang Applied Plasma Technology Center (2014), Future Energy Research Association (2015), Australian Nuclear Science and Technology Organization (ANSTO) (2016), Hefei Kejugao Technology (2017), NFRI (2018), ENN Energy Research Institute and Top Globe Cooperation (2019). Medal for Chandrasekhar Prize has been contributed by PSSI and IPR since 2014.

Reviews of Modern Plasma Physics: DPP concluded a contract with Springer on our official journal RMPP (Reviews of Modern Plasma Physics) on April 4, 2016. Since then, we published 31 review articles until now (Aug 31, 2019). The first volume (2017) published 10 articles. The second volume (2018) published 9 articles and third volume (2019) published 15 articles. RMPP acknowledges authors by providing 100USD coupon by which they can purchase any books published by Springer-Nature. All authors received coupons. RMPP participated APS publication committee (S. Sabbagh, chair) in 2017 (M. Kikuchi) and 2018 (Yu Lin). DPP discussed with Springer-Nature Japan about how to progress Web of Science evaluation for Journal Impact Factor. Dr. Nakajima (Springer-Nature Tokyo) is preparing the first step (ESCI: Emergent Source Citation Index) evaluation. But it will delay since processing other Springer journals is still waiting.

Review articles proposed from AAPS-DPP2018 are 32 articles. We prepared honorarium for review articles proposed from AAPS-DPP2018; 50,000 JPY/article in addition to Springer-Nature coupon. Review papers published from AAPS-DPP2018 are Y. Feng, K. Ostrikov, V. Yadav, Y. Ebihara, H. Saleem, F. Sahraoui, R. Keppens, T. G. Blackburn, T. Tajima. Submitted and under review are Y. Ezoe, G. Ganguli, Cong Yu, W. Zhong, Amita Das. Two articles are still waiting for submission by A.P. Misra (Surface plasmon) and Mike Campbell (Direct drive). 17 papers are Withdrawn, R.R. Ma (Avalanche), K.R. Chu (non-uniform microwave heating), G.R. Kumar (Ultra-intense Laser-Plasma interaction), A. Casner (turbulence in high energy density plasmas), G. Sarri (Strong-field quantum electrodynamics), J. Buechner (electron acceleration by reconnection), C. Xia (Solar prominence), J. Lin (multi-scale physics in CME), Y. Liang (ELM control), R. Neu (plasma-wall interaction), P. Diamond (CD-summary), G.Y. Fu (F-summary), Y. Kishimoto (B-summary), Jung-Sik Yoon (A-summary), X.H. Deng (SG summary), Ryoji Matsumoto (SA summary), X. Duan (MF summary). We also have significant delay of submission from 2017 S. Chandrasekhar Laureate, C.Z. Cheng.

APPC-13 (Brisbane): DPP made ~100 participations to APPC-13 in Brisbane (Dec. 4-8, 2016), where we had 2014-2016 S. Chandrasekhar Prize ceremony and also started AAPS-DPP Young Research Award.

Annual Conferences:

AAPS-DPP2017: DPP decided to start annual conference from 2017 and the first annual conference (Asia-Pacific Conference on Plasma Physics) was held at Chengdu hosted by Prof. Xuru Duan in SWIP (Southwestern Institute of Physics) during September 18-23, 2017. The first annual conference was great success having 506 participants.



AAPPS-DPP2018: The second annual conference was held at Kanazawa hosted by Prof. Yoshihiko Uesugi in Kanazawa University during Nov. 12-17, 2018. This conference had 682 participants. DPP started U30 award and poster prize from this conference. DPP had financial authority on the annual conference at second annual conference.

AAPPS-DPP2019: The third annual conference was held at Hefei hosted by Prof. Ge Zhuang in USTC during November 4-8, 2019. The third annual conference had 392 participants. DPP started Plasma Innovation Prize from this conference. Due to Chinese regulation, DPP can't have financial authority at the third annual conference.

Regal Personality: To formally take financial responsibility, DPP Ex-Co decided to establish legal personality to share power and responsibility among members of Governing Board of Directors. DPP is registered legally to the ministry of justice on November 28, 2018 and all properties including bank accounts are moved to legally registered AAPPS-DPP Association Incorporation. To minimize regal process, founders are limited (M. Kikuchi, M. Shiratani, H. Nagai, Y. Uesugi).

DPP's Activities: DPP's activities are 1) Operation of academic meetings such as annual conference and lecture meeting. 2) Publication of Journal and academic books. 3) Provision of information through homepage and mailing system. 4) Other business necessary to achieve purpose of this society. DPP has membership same as that during voluntary organization. DPP has "Regular Member" who has right to vote at the general assembly. "Regular Member" is those who paid registration fee to DPP for the annual DPP conference by which DPP will operate its service to the members.

General Assembly: In the first fiscal year (Nov28 2018-Aug 31 2019), there was no DPP annual conference. Therefore, regular members were founding members for legal entity (M. Kikuchi, M. Shiratani, H. Nagai, Y. Uesugi). We held 5 general assemblies during first fiscal year. First four are extraordinary and 5th one is regular general assembly. See <http://aappsdp.org/DPPhoujin/record.html>

First one was held on December 12, 2018 to make minor change on Articles of Incorporation and assign 6 members of BoD (B. Wan, JS Yoon, RS Rawat, Z. Yoshida, R. Matsumoto, XH Deng).

Second one was held on December 18, 2018 to add M. Hole as member of BoD.

Third one was held on January 8, 2019 to add SH Chen as member of BoD.

Fourth one was held on March 1, 2019 to determine total remuneration for officers.

Fifth one (ordinary general assembly) was held on August 29 to approve FY2020 work plan.

While articles of incorporation intended to have large number of regular members from AAPPS-DPP2019, the registration fee can't be collected by DPP due to Chinese regulation. This means no new regular members can be added. We will have minimum required general assemblies to fulfill functions defined in the Articles of Incorporation in the second fiscal year. Prospect for normal operation of general assembly critically depends whether future annual conference can be operated under the financial authority of AAPPS-DPP.

Board of Directors: Member of DPP Governing Board of Directors are M. Kikuchi (Chair& CEO), B. Wan (Chair-elect), Z. Yoshida (Vice chair), SH Chen (Vice Chair), JS Yoon (Vice Chair), XH Deng (Vice Chair), R. Matsumoto (Vice Chair), G. Zhuang (Vice Chair), M. Hole (Vice Chair), R. Rawat (Vice Chair), M. Shiratani (Vice chair for finance), H. Nagai (Executive officer). Observers are Y. Uesugi (Auditor), A. Das (Laser Plasma), X. Duan (Magnetic Fusion Plasma), Liu Chen (I-HAC chair), A. Sen (I-HAC vice chair), and Yong Liu (DPP secretary). DPP established our Articles of Incorporation as certified by the notary officer (<http://aappsdp.org/AAPPSDPPF/governance.html>) and accepted by the ministry of justice branch office in Mito city.

In the first fiscal year (Nov28, 2018-Aug 31, 2019), we held three BoD meetings.

First one was held on March 8-11, 2019 to define roles of each directors.

Second one was held on March 12-19, 2019 to approve budget balance as of March 12 including AAAPPS-DPP2018 budget balance and planned expenditure on RMPP honorarium, DPP office and staff costs audited by Y. Uesugi (Auditor).

Third one was held on August 27-28, 2019 to approve FY2020 (Sept. 1,2019-Aug. 31, 2020) business plan.