

Preliminary Announcement on 2nd Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2018)

November 12-17, 2018

Ishikawa Prefectural Bunkyo Hall & The Kanazawa Chamber of Commerce and Industry Organized by AAPPS-DPP

AAPPS-DPP held 1st Asia-Pacific Conference on Plasma Physics during 18-23, September 2017 in Chengdu, China successfully. AAPPS-DPP decided to organize the 2nd Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2018 in short) during 12-17, November 2018 in Kanazawa, Japan. This conference will be the annual plasma physics conference in Asia-Pacific region, similar to the APS-DPP and EPS-DPP conferences on plasma physics.

Official homepage of this conference is http://aappsdpp.org/DPP2018/index.html

[1] Scope of the AAPPS-DPP2018:

AAPPS-DPP2018 is a plasma physics conference under the authority of AAPPS-DPP for scientific discussions on plasma physics. This conference should be physics oriented and provide interdisciplinary and in-depth discussions among and in various fields of plasma physics and application.

[2] Date: November 12(Monday) -17(Saturday), 2018

[3] Conference Venue:

Ishikawa Prefectural Bunkyo Hall (http://www.bunkyo.or.jp) & The Kanazawa Chamber of Commerce and Industry (CCI) Hall (http://www.kanazawa-cci.or.jp), Kanazawa, Japan

Venue is located near Kanazawa Castle and Kenrokuen garden (one of three famous Japanese garden) and Ohmicho Market (seafood). 11 minutes from Kanazawa station (bus and walks).

[4] Organization:

AAPPS-DPP (http://aappsdpp.org/AAPPSDPPF/) is organizing body of this conference. This conference is endorsed and sponsored by following societies and organization.

- 1. Division of plasma physics in American Physical Society (APS-DPP, https://www.aps.org/units/dpp/)
- 2. Division of plasma physics in European Physical Society (EPS-DPP, tbc, http://plasma.ciemat.es/eps/)
- 3. Physical Society of Japan (JPS, http://www.jps.or.jp/english/)
- 4. Division of Plasma Physics in Chinese Physical Society (CPS-DPP)
- 5. Division of Plasma Physics in Korean Physical Society (KPS-DPP)
- 6. Plasma Science Society of India (PSSI, http://www.pssi.in/)
- 7. Astronomical society of Japan (ASJ, http://www.asj.or.jp/)
- 8. The Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS, http://www.sgepss.org/sgepss/index-e.html)
- 9. Laser Society of Japan (LSJ, http://www.lsj.or.jp/LSJHP/LSJindex.html)
- 10. Division of Plasma Electronics in Japan society of Applied Physics (JSAP- DPE, http://annex.jsap.or.jp/plasma/)
- 11. Japan Society of Plasma Science and Nuclear Fusion Research (JSPF, http://www.jspf.or.jp/eng/)
- 12. Division of Nuclear Fusion and Plasma Physics in Chinese Nuclear Society
- 13. Asian African Association on Plasma Training (AAAPT, http://www.aaapt.org/)
- 14. Australian ITER Forum (http://fusion.ainse.edu.au/)

Sponsored by:

1. Asia Pacific Center for Theoretical Physics (APCTP, https://www.apctp.org/main/)

[5] International Organizing Committee (IOC)

IOC Chair: Kunioki Mima (GPI)

IOC Co-chairs: Mitsuru Kikuchi (QST), Baonian Wan (ASIPP), Hyeon Park (UNIST), Abhijit Sen (IPR)

IOC members:

Liu Chen (Zhejiang University)



Endorsed Societies: John Cary (Colorado University, APS-DPP chair), Richard Dendy (University of Warwick, EPS-DPP chair), Sadao Masamune (Kyoto Institute of Technology, JPS (Plasma)), Xiaogang Wang (Harbin Institute of Technology, CPS-DPP Chair), Hyyong Suk (GIST, KPS-DPP Chair), Prabal K Chattopadhyay (IPR, PSSI President), Kazunari Shibata (Kyoto University, ASJ President), Yasuharu Omura (Kyoto University, SGEPSS Vice President), Yoshiaki Kato (GPI, LSJ President), Mineo Hiramatsu (Meijo University, JSAP-DPE Chair), Zensho Yoshida (University of Tokyo, JSPF President), Rajdeep S. Rawat (Nanyang Technological University, AAAPT President), Matthew Hole (ANU, Australian ITER Forum Chair)

Fundamental: Akira Hasegawa (Osaka University), Robert Dewar (Australian National University), Patrick Diamond (University of California San Diego), Sanae-Inoue Itoh (Kyushu University), Chio-Zhong Cheng (National Cheng Kung University), Chuan Sheng Liu (University of Maryland), Yasushi Ono (University of Tokyo), Guoyang Fu (Zhejiang University), Taiku Soo Hahm (Seoul National University), Yoshi-Yuki Hayashi (Kobe University)

Basic: Shin-Hung Chen (National Central University), Yasuaki Kishimoto (Kyoto University), Tomohiko Watanabe (Nagoya University), Rajaraman Ganesh (Institute for Plasma Research), Lin I (National Central University), A.A. Mamun (Jahangirnagar University), Yaming Zou (Fudan University), Kwo Ray Chu (National Taiwan University), Wonhoe Choe (KAIST), Chiow-San Wong (University of Malaya), Oi Hoong Chin (University of Malaya), Osamu Ishihara (Chubu University), Choong-Seock Chang (Princeton Plasma Physics Laboratory), Hiroshi Akatsuka (Tokyo Institute of Technology)

Applied: Jung-Sik Yoon (NFRI), Masaharu Shiratani (Kyushu University), Rikizo Hatakeyama (Tohoku University), Francis F. Chen (University of California Los Angels), Yi-Kang Pu (Tsinghua University), Masaru Hori (Nagoya University), Paul Kim Ho Chu (City University of Hong Kong), Suk Jae Yoo (NFRI), Roderick Boswell (Australian National University), Ashish Gangul (Indian Institute of Technology), Deepak Prasad Subedi (Kathmandu University), Sor Heoh Saw (Nilai University), Mudtorlep Nisoa (Walailak University)

Laser: Amita Das (IPR), Ryosuke Kodama (Osaka University), Hitoki Yoneda (University of Electric Communication), Testuya Kawachi (QST), Chang Hee Nam (GIST), Xian-Tu He (Peking University), Zheng Ming Sheng (SJTU), Heinrich Hora (University of New South Wales), G. Ravindra Kumar (Tata Institute of Fundamental Research), Toshiki Tajima (University of California Irvine), Sylvie Jacquemot (Ecole Polytechnique), E. Michael Campbell (University of Rochester), Youichi Sakawa (Osaka University)

Space & Geomagnetism: Xiaohua Deng (Nanchang University), Ryoichi Fujii (ROIS), Zuyin Pu (Peking University), Lou-Chuang Lee (Academia Sinica), Donald B. Melrose (University of Sydney), Lin Ni Hau (National Central University), Bimla Buti (Buti Foundation), Iver Cairns (University of Sydney), Dong-Hun Lee (Kyung Hee University), Yu Lin (Auburn University)

Solar and Astro: Ryoji Matsumoto (Chiba University), Kanya Kusano (Nagoya University), Peng-Fei Chen (Nanjin University), Dongsu Ryu (UNIST), Arnab Rai Chaudhuri (Indian Institute of Science), Jingxiu Wang (University of Chinese Academy of Science), Hantao Ji (Princeton University)

Magnetic Fusion: Xuru Duan (SWIP), Yeong Kook Oh (NFRI), Takaaki Fujita (Nagoya University), Akio Komori (National Institutes of Natural Science), Tomohiro Morisaki (National Institute of Fusion Science), Mori Masahiro (QST), Shashank Chaturvedi (Institute for Plasma Research), Sibylle Guenter (Max Planck Institute for Plasma Physics), Richard J. Hawryluk (Princeton Plasma Physics Laboratory), Anthony Donne (EuroFusion), Alain Becoulet (CEA Cadarache), Tony Taylor (General Atomics), Francois Waelbloeck (University of Texas), Ian Chapman (CCFE) APCTP: Won Namkung (APCTP), LOC: Yoshihiko Uesugi (Kanazawa University)

[6] Local Organizing Committee (LOC)

LOC Chair: Yoshihiko Uesugi (Kanazawa University)

LOC members:

Yasunori Tanaka (Kanazawa University), Tatsuo Ishijima (Kanazawa University), Yukihiro Soga (Kanazawa University), Toshinori Ando (Kanazawa University), Daisuke Yonetoku (Kanazawa University), Tatsuya Sawano (Kanazawa University), Naoki Oosawa (Kanazawa University), Keiko Kawanishi (Kanazawa University), Yasuhiro Nariyuki (Toyama University), Yuji Hatano (Toyama University), Hiroaki Ito (Toyama University), Hayato Ohashi (Toyama University), Yoshinori Tatematsu (Fukui University), K. Hanada (Kyushu University), M. Nagata (Hyogo P. University), S. Hamaguchi (Osaka University), H. Himura (KIT), N. Ohno (Nagoya University), S. Shinohara (TUAT), Y. Takase (University of Tokyo), Y. Nakashima (Tsukuba University), H. Sakakita (AIST), A. Ando (Tohoku University), K. Sasaki (Hokkaido University)

[7] Scientific Program Committee

General PC chair: M. Kikuchi (QST) General PC Co-chair: B. Wan (ASIPP)

Scientific program will be categorized into following 8 fields following 7 Program Committees.

- 1. **Cross Disciplinary (CD) PC**: P. Diamond (Chair), XG Wang (Co-chair), YY Hayashi (Co-chair), Peng Fei Chen, Susanna Cappello, Katsumi Ida, Steve Tobias (Leeds U), Won-Ha Ko, R. Matsumoto, Hailhong Che (Goddard)
- 2. Fundamental (F) PC: GY Fu (Chair), Z. Yoshida (Co-chair), TS Hahm (Co-chair), members tbd.
- 3. Basic (B) PC: Y. Kishimoto (Chair), SH Chen (Co-chair), AA Mamun (Co-chair), H. Akatsuka (Co-chair), Yaming



Zou, members tbd.

- 4. Applied (A) PC: JS Yoon (Chair), M. Shiratani (Co-chair), YS Song (Co-chair), members tbd.
- 5. Laser (L) PC: A. Das (Chair), Y. Sakawa (Co-chair), ZM Sheng (Co-chair), CH Nam (Co-chair), members tbd.
- 6. Space and Geomagnetism (S) PC: Xiaohua Deng (Chair), Yoshiharu Omura(Co-chair), Akira Kageyama, tbd.
- 7. **Solar and Astro** (**SA**) **PC**: R. Matsumoto (Chair), PF Chen (Co-chair), D. Ryu (Co-chair), K. Shibata (Co-chair), Shu-ichiro Inutsuka (Nagoya University, Nagoya), Feng Yuan (Shanghai Astronomical Observatory, Shanghai), Iver Cairns (University of Sydney, Sydney), Arnab Choudhuri (Indian Institute of Science, Bangalore), Ronald E. Taam (ASIAA, Taipei), Hantao Ji (Princeton University, Princeton), Rony Keppens (KU Leuven, Leuven), Siming Liu (Purple Mountain Observatory, Nanjing), Hui Li (Los Alamos National Laboratory, Los Alamos), Kyung-Suk Cho (KASI, Daejeon).
- 8. Magnetic fusion (MF) PC: X. Duan (Chair), T. Fujita (Co-chair), YK Oh (Co-chair), K. Nagasaki, tbd.
- **1. "Cross Disciplinary"** session is created according to the comments on 1st Asia-Pacific Conference on Plasma Physics to discuss common topics among various plasma fields. This session will have three topics. 1. Magnetic Reconnection and Relaxation (MRR), 2. Turbulent Momentum Transport and Flow Structure (TMTF), 3. Filamentation, Focusing and Collapse.
- 2. "Fundamental" covers 1. Mathematical plasma physics, 2. MHD and Reconnection, 3. Kinetic MHD, 4. Plasma turbulence, 5. Gyro kinetic, 6. NC transport, 7. Turbulent transport, 8. Current Drive, 9. Relativistic plasma physics, etc. Fundamental will have some focused sessions on EP physics in AAPPS-DPP 2018.
- 3. "Basic" covers 1. Plasma Simulation, 2. Strongly-coupled& Dusty& Quantum plasmas, 3. Atomic& Molecular in plasma for astro/solar/space, laser, low temp and fusion applications, 4. Plasma Diagnostics, 5. Non-neutral plasma, 7. Plasma propulsion, 8. Plasma source and plasma heating system, etc.

Basic will have focused sessions on 1. Massive computational plasma physics, 2. Strongly-coupled, dusty and quantum plasma, 3. Atomic and Molecular physics for plasma, 4. Others

[8] Basic Structure of Scientific Program

Conference will run from Monday (12 Nov.) to Friday (17 Nov.). Morning sessions will be plenary session (no parallel session) in principle which may include ~42 plenaries (30 minutes). There will be 2018 S. Chandrasekhar Prize selection before the conference and the winner will be the first plenary speaker. Afternoon session will be dedicated for parallel sessions. Number of invited speakers (25 minutes) is ~ 171 of above 8 fields. Number of orals (15 minutes) will be ~171. Poster session will be strengthened based on comments on AAPPS-DPP 2017 to have poster prizes for students and full participants. Posters up to 300 are welcomed.

Sunday(201	Monday (2018.11.12)	Tuesday (11.13)	Wednesday (11.14)	Thursday (11.15)	Friday (11.16)	Saturday
8.11.11)						(11.17)
	8:00~: Registration	8:00~: Registration	8:00~: Registration	8:00~: Registration	8:00~: Registration	
	8:30: Opening Session	Plenary 2 [Chair:]	Plenary 4 [Chair:]	Plenary 6 [Chair:]	Plenary 8 [Chair:]	9:00 ~16:00
	Speaker 1,2	8:30-9:00: P7	8:30-9:00: P15	8:30-9:00: P23	8:30-9:00: P31	Conference tour
	Speaker 3.4	9:00-9:30: P8	9:00-9:30: P16	9:00-9:30: P24	9:00-9:30: P32	
	Speaker 5,6	9:30-10:00: P9	9:30-10:00: P17	9:30-10:00: P25	9:30-10:00: P33	
	9:30-10:00: Photo Break	10:00-10:30: P10	10:00-10:30: P18	10:00-10:30: P26	10:00-10:30: P34	
	Plenary 1 [Chair:]	10:30-11:00: Coffee break	10:30-11:00: Coffee break	10:30-11:00: Coffee break	10:30-11:00: Coffee break	
	10:00-10:30: P1				11:00-13:10: F VI [409]	
	10:30-11:00: P2	Plenary 3 [Chair:]	Plenary 5 [Chair:]	Plenary 7 [Chair:]	11:00-13:10: B VI [401]	
	11:00-11:30: P3	11:00-11:30: P11	11:00-11:30: P19	11:00-11:30: P27	11:00-13:10: A VI [202]	
	11:30-12:00: P4	11:30-12:00: P12	11:30-12:00: P20	11:30-12:00: P28	11:00-13:10: L VI [402]	
	10:00-12:30: P5	12:00-12:30: P13	12:00-12:30: P21	12:00-12:30: P29	11:00-13:10: S VI [408]	
	12:30-13:00: P6	12:30-13:00: P14	12:30-13:00: P22	12:30-13:00: P30	11:00-13:10: SA VI [410]	
					11:00-13:10: MF VI-1 [Meeting R]	
					11:00-13:10: MF VI-2 [Training R2]	
	13:00-14:00: Lunch	13:00-14:00: Lunch	13:00-14:00: Lunch	13:00-14:00: Lunch	13:10-14:00 Lunch	
	14:00-16:10 F I [409]	14:00-16:10:CDI [401]	14:00-16:10: CD III [401]	14:00-16:10: CD V [401]		
	14:00-16:10 B I [401]	14:00-16:10: F III [409]	14:00-16:10: F IV [409]	14:00-16:10: F V [409]	Plenary (Summary)[Chair:]	
	14:00-16:10 A I [202]	14:00-16:10: BIII [403/406]	14:00-16:10: B IV [403/406]	14:00-16:10: B V [403/406]	14:00-14:30: P35 Cross Disciplinary	
	14:00-16:10 L I [402]	14:00-16:10: A III [202]	14:00-16:10: A IV [202]	14:00-16:10: A V [202]	14:30-15:00: P36 Fundamental	
	14:00-16:10 S I [408]	14:00-16:10: L III [402]	14:00-16:10: L IV [402]	14:00-16:10: L V [402]	15:00-15:30: P37 Basic	
	14:00-16:10 SA I [410]	14:00-16:10: S III [408]	14:00-16:10: S IV [408]	14:00-16:10: S V [408]	15:30-16:00: Coffee Break	
	14:00-16:10MFI-1[Meeting R]	14:00-16:10: SA III [410]	14:00-16:10: SA IV [410]	14:00-16:10: SA V [410]	16:00-16:30: P38 Applied	
	14:00-16:10 MF I-2[Training R2]	14:00-16:10:MFP1 Poster	14:00-16:10:MFP2 Poster	14:00-16:10:MFP3 Poster	16:30-17:00: P39 Laser	
	14:00-16:10				17:00-17:30: P40 Space	
	16:10-16:40:	16:10-16:40:	16:10-16:40:	16:10-16:40:	17:30-18:00: P41 Solar/Astro	
	Coffee Break	Break and Transport	Break and Transport	Break and Transport	18:00-18:30: P42 Magnetic Fusion	
15:00-18:00	16:40-18:50: F II [409]	16:40-18:50: FP1 Poster	16:40-18:50: FP2 Poster	16:40-18:50: FP3 Poster	18:30-19:00: Poster prize/Closing	
Registration	16:40-18:50: B II [401]	16:40-18:50: BP1 Poster	16:40-18:50: BP2 Poster	16:40-18:50: BP3 Poster	•	
	16:40-18:50: A II [202]	16:40-18:50: AP1 Poster	16:40-18:50: AP2 Poster	16:40-18:50: AP3 Poster		
	16:40-18:50: L II [402]	16:40-18:50: LP1 Poster	16:40-18:50: LP2 Poster	16:40-18:50: LP3 Poster		
	16:40-18:50: S II [408]	16:40-18:50: SP1 Poster	16:40-18:50: SP2 Poster	16:40-18:50: SP3 Poster		
	16:40-18:50:SAII[410]	16:40-18:50: SAP1 Poster	16:40-18:50: SAP2 Poster	16:40-18:50: SAP3 Poster		
	16:40-18:50:MFII-1[Meeting R]	16:40-18:50:MF III-1[Meeting R]	16:40-18:50:MF IV-1[Meeting R]	16:40-18:50: MF V-1[Meeting R]		
	16:40-18:50:MF II-2 [Training R2]	16:40-18:50:MF III-2[Training R2]	16:40-18:50:MF IV-2[Training R2]	16:40-18:50:MF V-2[Training R2]		
		16:40-18:50: CDII [401]	16:40-18:50: CD IV [401]	16:40-18:50: CD VI [401]		
	19:20-21:00: Reception	19:00-19:40: EV-1 DPP public		19:30-22:00: Conference Dinner		
		meeting with beer and snack		(Award intro.)		



1. Plenary Hall

All plenary talks will be given at the Plenary Hall in Ishikawa Prefectural Bunkyo Hall (590 seats).



2. Parallel Session Rooms

Parallel session will be held at 4th floor of Ishikawa Prefectural Bunkyo Hall and 2nd floor of Kanazawa Chamber of Commerce and Industry Hall. Tentative room allocation is as follows. It may change according to the nomination and PC decisions.



Room 401 (Basic and CD, 72 seats)



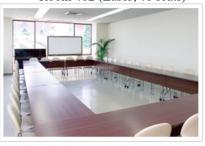
Room 402 (Laser, 48 seats)



Room 403 (Basic, 30 seats)



Room 406 (Basic 30 seats)



Room 202 (Applied 48 seats)



Room 408 (Space 42 seats)

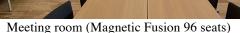


Room 409 (Fundamental 42 seats)



Room 410 (Solar/Astro 42 seats)







Training room 2 (Magnetic Fusion 48 seats)

Depending on number of submissions, MF meeting room may be divided into 2 rooms (A+B=84 seats, C=45 seats) or 3 rooms (A=30 seats, B= 45 seats, C=45 seats) so that we can have more oral sessions.

Poster Session and exhibitions:

Poster session will be held at two rooms in Kanazawa Chamber of Commerce and Industry Hall. Exhibition of companies and organization will be held at the same rooms. Companies and organizations wished to have exhibition are encouraged to contact Ms Sachiko Shindo (shindo@nikkanad.co.jp).

There is some uncertainty on availability of hall. Once we get information, we will rearrange exhibitions and posters.



Hall (1st floor, 358m²)



Training room 1 (2nd floor, 285m²)

[9] Prize and Award

In this conference, 2018 S. Chandrasekhar Prize of Plasma Physics, new DPP award on Plasma Application, DPP young research award will be given. AAPPS-DPP 2018 poster award for students and full participants will be selected during the conference. Distinctions on contribution to Asian plasma physics from APS and EPS may also be given.

[10] Important Deadline Dates

- 1. Nomination of plenary and invited speakers: January 10 to February 29
- 2. Nomination of 2018 S. Chandrasekhar Prize: January 10 to March 20
- 3. Notification of plenary and invited speakers: Mid April
- 3. Submission of contributed presentation: April 1 to May 31
- 4. Nomination of DPP young research award: April 1 to May 31
- 5. Notification of acceptance of contributed presentation: End of June

[11] VISA

Participants who need VISA should contact LOC at Prof. Tatsuo Ishijima, Kanazawa University (aappsdpp.2018@gmail.com). Registration fee should be paid in advance before you apply VISA.

[12] Accommodation

Participants may use commercial Web system on reservation of hotel such as booking.com, trivago, tripadvisor, rakuten, etc. Hotel list near the conference venue will be shown at DPP homepage.



[13] Registration Fee, Dinner, Lunch Box and Conference Tour

Registration fee should be paid on-line before the conference. At the conference site, payment will take time since there will be minimum peoples in charge. Member fee is applied to AAPPS-DPP members and members of endorsed societies. Registration fee includes 1) Admission to all conference sessions, 2) Coffee break, welcome reception, 3) Conference Materials.

	Early registration before September 30	After Sept. 30
Member	50,000 JPY	60,000 JPY
Non member	60,000 JPY	70,000 JPY
Student and retired	25,000 JPY	30,000 JPY

There will be conference dinner on Thursday evening. Conference diner fee is 6000 JPY for full participant and 4000 JPY for student. Lunch box of \sim 1000JPY can be reserved for Nov. 12 – 16. Conference tour fee will be announced later and should be paid on-line as well. All these payment should be made before the conference.



Ishikawa Bunkyo Hall and Kanazawa CCI are conference venues, which are close to Kanazawa castle, Kenrokuen and Omicho Market. You may arrive Kanazawa station using Super express train from Tokyo.

International Organizing Committee Chair: Kunioki Mima Co-chair: M. Kikuchi, B. Wan, H. Park, A. Sen Local Organizing Committee Chair: Yoshihiko Uesugi



Kanazawa Bus station and bus stop to conference venue (Minami machi-bus stop 🙆 by Kanazawa loop bus (left loop).

