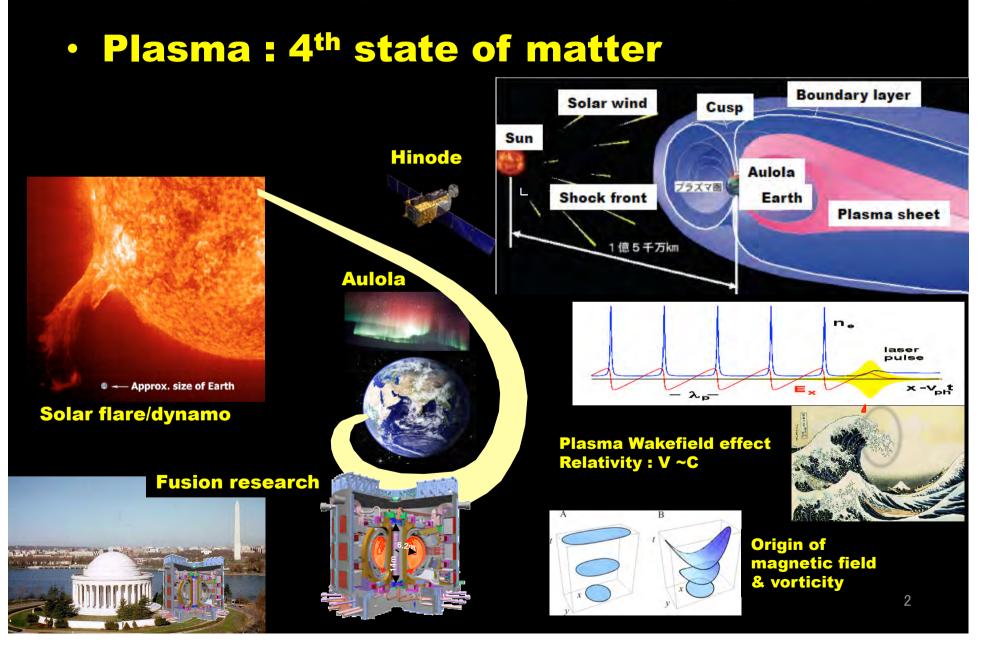
32nd AAPPS council meeting, Jan. 22-24 Jia-Suo Guest House, Tsinghua University, Beijing

Annual report of Division of Plasma Physics, AAPPS

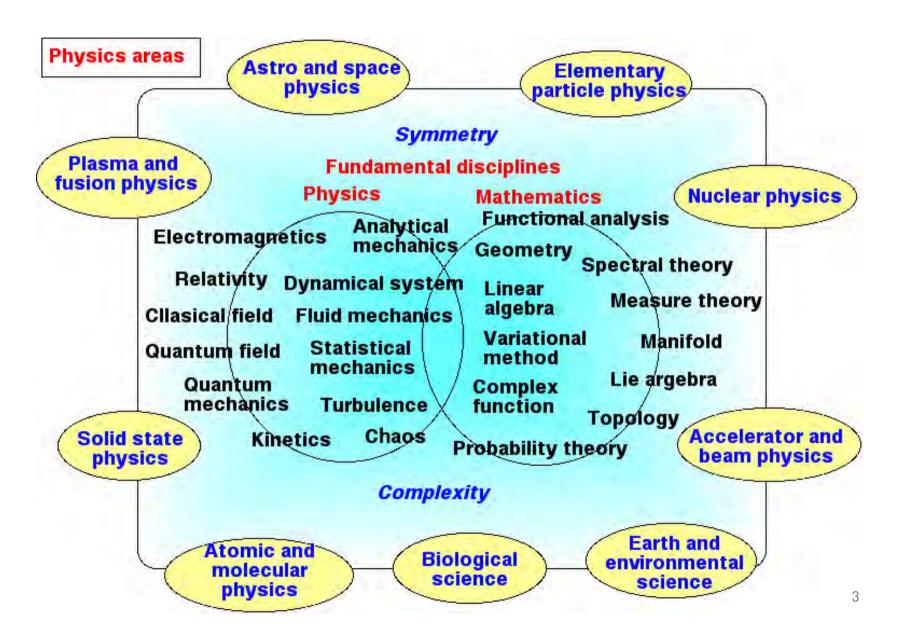
M. Kikuchi, DPP chair JAEA

Ex. CAS visiting professor, Ex. Fudan Univ. visiting professor Guest professor, Osaka U.

Introduction to Plasmas



Plasma physics made significant progress benefited by fundamental disciplines



Executive committee (decision body)



M. Kikuchi Chair

L. Chen fundamental basic

A. Sen M. Shiratani **Applied**

Laser

ZM Sheng Lin Ni Hau **Space**



D. Ryu Solar/astro

M. Hole APPC-13

T. Onjun Secretary general

H. Nagai Home page

K. Imadera Member

International honorary advisory committee (I-HAC) (advisory body)















P. Kaw A. Hasegawa C. Yu,

,

R. Dewar, C.Z. Cheng, C.S. Chang, F.F. Chen,















R. Hatakeyama, R. Boswell, T. Tajima, X.T. He. K. Mima, K. Shibata, L.C. Lee











Z. Pu, W. Namkung, M. Sasao, H. Takabe, C. Pan

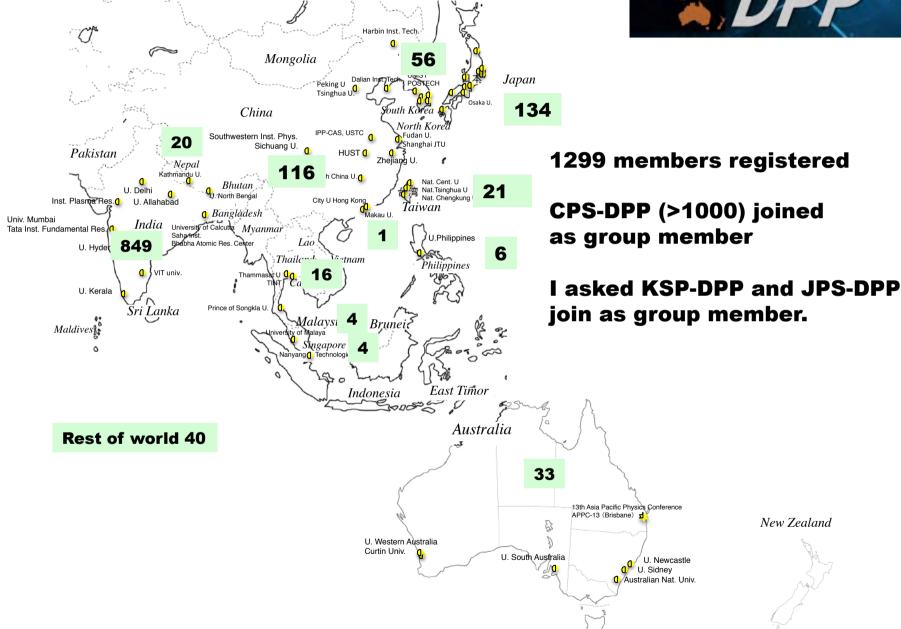
Plasma becomes a largest part of the Asian physics conference > 300

12 th Asia Pacific Physics Conference July 14-19, Makuhari, Chinba, Japan



Division of plasma physics, AAPPS membership





Individual DPP member registrations

2016.1.1

	Founders	Members	Total
Australia	11	22	33
Beijing	22	94	116
India	10	839	849
Japan	24	110	134
Korea	9	47	56
Malaysia	1	3	4
Philippines	1	5	6
Taipei	5	16	21
Thailand	2	14	16
Singapore	4	0	4
Hong-Kong	1	0	1
Nepal	1	19	20
Oman	0	1	1
Pakistan	0	1	1
Indonesia	0	2	2
USA	1	21	22
Canada	0	1	1
France	0	1	1
UK	0	2	2
Germany	0	4	4
Italy	0	1	1
Czech	0	1	1
Portugal	0	1	1
Chili	0	1	1
Rwanda	0	1	1
Total	92	1207	1299

2015.1.1

	Founders	Members	Tota
Australia	11	21	32
Beijing	22	92	114
India	10	835	845
Japan	24	104	128
Korea	9	29	38
Malaysia	1	3	4
Philippines	1	5	6
Taipei	5	16	21
Thailand	2	12	14
Singapore	4	0	4
Hong-Kong	1	0	1
Nepal	1	18	19
Oman	0	1	1
Pakistan	0	0	0
Indonesia	0	0	0
USA	1	19	20
Canada	0	1	1
France	0	1	1
UK	0	1	1
Germany	0	4	4
Italy	0	1	1
Czech	0	1	-1
Portugal	0	1	1
Chili	0	1	1
Rwanda	0	1	1
Total	92	1167	1259

DPP Homepage (Linked from AAPPS HP) volunteer work by H. nagai

DPP News

Prof. Predhiman Kaw is Laureate of 2015 S. Chandrasekhar Prize!! Press Release Press Release/Jananese) Conquitilatory Wordings

Call for Web Advertising. AAPPS-DPP needs your cooperation!! Make contact with APPS-DPP Secretary appps.dpp#gmail.com(substitute @ for #) Download Application Form

Call for Donation for S. Chandrasekhar Prize of Plasma Physics

See Web advertise DPP News January 17,2016

First Announcement of the 43rd EPS Conference on Plasma Physics. DPP Nows January 14-3,2016

January 14, 2016 Meeting Information: VidishaConference. DPP News January 14-2,2016

ICPP2016 abstract submission ready. DPP News January 14,2016

> Report of 10 year cerebration of plasma physics lab. in Nepal. DPP News January 13-3, 2016

January 13, 2016 Prof. Francis Froyon passed away. DPP News January 13-2,2016

> 2015 S. Chandrasekhar Prize Laureate is Prof. Predhiman Kaw-DPP News January 13,2016 Congratulatory Wordings Press Release

Upcoming meeting

 APFA 2015. Dec.14-18, 2015. Gandhinagar, India

 2015 ITER International Scool. Dec.14-18, 2015, Heifei, China

 10th West Lake International Symposium (WLIS) on Magnetic Fusion and the 12th Asia Pacific Plasma Theory Conference (APPTC), May.9-12, 2016,

 The 18th International Congress on Plasma Physics (ICPP-2016) June 27-July1, 2016. Kaohsiung, Chinese Taipei

Hangzhou, China

 EPS 2016. July.4-8, 2016, Leuven, Belgium

Education/school APPS-DPP site

Schools & Books

There are number of plasma schools which may be useful for Asiaresearchers. This page provide informations schooling opportunitie also all over the world.

Schools

Asia Pacific school information

- Sokendai Asian Winter School(AWS2014)
- * Date: Dec.2, 2014 Dec. 5, 2014
- * Location: National Institute for Fusion Science Japan
- * Intended for: Students and young researchers in Japan ar * Capacity: 30 people
- 2nd ASEAN School on Plasma and Nuclear Fusion Jan 18-22 University, Bangkok, Thailand

It will be an intensive one-week course taught by fusion experts in

Cooperation Agreement in the Field of Magnetic Fusion Research TINT/SIIT/TU

· East -Asia School and Workshop on Laboratory, Space and Astrop. This school is started in 2011 and the first school is held at KIAA 2nd school at Jeju Island, Korea in 2012, 3rd school at Tokyo, Ja School will be held at Harbin Institute of Technology, Harbin, Ch 2014

4th East-Asia School and Workshop on Laboratory, Space and

S. Chandrasekhar Prize

Subralamanyan Chandrasekhar (1910-1995) was an Indian-American istrophyticist who was awarded the 1983 Nobel Prize for physics for his theory of black hale. He worked in various areas including placens physics. Plasma physics community is benefited from his works through his textbooks such as "Pronciples of stelar dynamics (1942)". "Plasma Physics (1975)", "Hydrodynamics and Hydromagnetic stability (1981)". In 2014, we have established the Division of Plasma Physics under AAPPS Asia-Pacific region is rapidly growing economically and scientifically. A large number of new programs on various fundamental and applied aspects of plasma physics are emerging in several countries of Asia and the Pacific regions. Young people taking up careers in plasma science in these regions look forward to the prestige of recognition by their peers and this becomes more equitable when your peers are minustely familiar with your work. This will also give a "sense of accomplishment"

to the Asia-Pacific region as a whole because the body of significant work
already pioneered by the Awardees will be acribed to this region. The Executive Committee of division of plasma physics after consultation to I-HAC (International Honorary Advisory Committee) decided to establish Plan Physics Prize after S. Chandrasekhar to recognize seminal/pigneering works in this field

Description of the S. Chandrasekhar Prize

The Chandrasekhar Prize is awarded by the Division of Plasma Physics of the AAPPS to recognize outstanding contributions to experimental and/or theoretical research in fundamental plasma physics and plasma applications in all fields of physics

Rule: This Prize will be given to an AAPPS-DPP member who has made seminal / pioneering contribution to any field of plasma physics or plasma applications as stated above

iii) Nomination: Necessary documents and time schedule for nomination will be announced in the DPP home wave DPF seeks outstanding nominations worldwide and especially from the Asia-Pacific region.

iii) Selection: Selection will be made by the Chandrasekhar Prize Selection Committee annually

iv) Selection Committee: DPP-ExCo will appoint Chair and members of selection committee taking into account of the I-HAC recommendations

v) Award Ceremony: Certificate, Medal and a cash award will be bestowed to the awardees at the APPC conference held every three years

vi) Obligations: Chandrasekhar awardees should deliver invited talks in the APPC as well as contribute review papers to the DPP journal

3. Call for Sponsorship and Contribution

Spoosors and Contributors a

Division of Plasma Physics (DPP) seeks the official sponsorship by any organizations and personal contribution. in support of above prospectus. Contribution will be used for DPP operation and awards. Official sponsorship by
the organization will be recorded in the diploma of DPP Awards and the home page. Official sponsorship shall be one or more units in the US \$-5,000. You may visit AAPPS DPP HP at http://nappsdpp.org/AAPPSDPPF

Web advertisement



Join DPP membership

AAPPS-DPP started member registration

I) If you are participants of APPC-12;

Please send your informations to AAPPS-DPP secretary for the following items:

1. Name (First, Middle, Family)

2. Salutation

3. Affiliation 4. Position 5 E-mail

6. Fields of interest: D-0, D-1, D-2, D-3, D-4, D-5

D-0: Fundamental Plasma Physics

(MHD, turbulence, transport, wave-particle interaction) D-1: Basic Plasma Physics (plasma diagnostics, atomic and molec processes in plasmas, plasma simulation, complex and d

non-neutral plasma, etc) D-2 : Applied Plasma Physics

D-3: Laser Plasma (including laser wake field acceleration)

D-4 : Space Plasma Physics

D-5 : Solar & Astro Plasma Physics

7. I am currently a student (Baccalaureate, Master, Doctoral) Yes or No

AAPPS-DPP Secretary aapps dpp@qmail.com

or imadera#center.iae.kyoto-u.ac.jp (substitute @ for

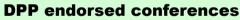
II) If you are not the APPC-12 participant

Please ask any AAPPS-DPP member for your recommendation and send his/her informati to AAPPS-DPP secretary

Present AAPPS-DPP members are founders of AAPPS-DPP and only one member's recor

The member fee is free at this moment!

For your registration, please use the following form.



AAPPS	S-DPP	Meetii	nas

The 12th Asia Pacific Plasma Theory Conference

1-4 July, 2014, Jeju Island, Korea Host: 12th APPTC Organizing Committee

Co-sponsor: AAPPS-DPP

Topics: Visit following page http://plasma.ee.pusan.ac.kr/apptc2014/index2.html

4th Asia-Pacific Transport Working Group (APTWG) conference 10-13 June 2014, Kasuga, Janan

Host: APTWG2014 Organizing Committee Co-sponsor: AAPPS-DPP

Topics: Visit following page http://aptwg2014.nifs.ac.jp/

8th International West Lake symposium

April 21-25, 2014 at Hangzho, China

Host: Institute for Fusion Theory and Simulation, Zhejian University Co-sponsor: A A PPS_DPP

Topics : Novel Radiation Sources, Advanced Particle Accelerators, Laser-Driven N Radiation Reaction Effects, Computational Plasma Physics, Laser-Plasma Applica

AAPPS Meetings

The 13th Asia-Pacific Physics Conference will be held in Brisbane in December 2016, in con 2016 AIP Congress

Upcoming meetings

ne 10-13, 2014 enter Japan Name 23-37, 2014 ly 1-4 , 2014 conference repris include theory, medicing, and consistents for purpose from 34 28 -Aug 1, 2014 sechou, China Aug 31 - Sep 5 , 2014 Sep 13-19, 3014 ep 21-24, 2014 Sep 22,74, 2014 Katheneske Neval Nigsta, Japan Der 15.10 2014 Dameon, Knees Jan 15-17, 3015 Kolkata, India rch 26-31. FPPT-7: 7th lat. Conf. the Frontiers of Plantas Physics and Technolog Nordita, Sweden Ongu, Evolution, and Signatures of Connellogical Magnetic Fields

by 05-10, 2015

ug 17-22, 2015

DPP News; start in April 2014

1st DPP News2014

In April 21-25, 2014, the 8th International West Lake Symposium on Laser Plasma Interactions (IWLS-LPI) was held at the Zhejiang Hotel hidden in the beautiful hills next to the West Lake in Hangzhou, China. There were more than 120 participants from China, France, Germany, India, Italy, Janan Portugal, Russia, UK, USA, etc. representing more than 27 institutions worldwide. More than

The West Lake Symposium series is organized and hosted annually by the Institute for Fusion Theory and Simulation, Zhejiang University for the purpose of exchanging ideas in a relaxed atmosphere on topics ranging from magnetically confined fusion plasmas, laser plasma interactions, and space plasmas to computational plasma physics. This year, the Symposium, co-sponsored by the newly established Division of Plasma Physics, Association of Asian-Pacific Physical Societies (A A PPS_DPP) is focused on "I aser Plasma Interactions". Most presentations in the Symposium are on the interaction of relativistic high-intensity lasers with plasmas, including the generation of ultrashort wavelength light sources, ultrafast and high flux electron and ion beams, ultraintense magnetic fields atc. These tonics are consistent with the current main interacts in relativistic laser-plasma interactions, which may find applications in laser-driven fusion, laboratory modelling of astrophysical phenomena, novel and compact radiation and beam sources, medical diagnostics and tumor treatment, etc. The use of lasers can greatly reduce the overall size of the devices in the applications and is therefore practical as well as economical interest. The 30-minute oral talks were ergonomically arranged, leaving ample time for stressless discussions and interchange of ideas. The Symposium also contains several informative 50 minute review talks that cover the un-to-date research topics as well the relevant basic physics. There were also many fruitful after-session discussions among participants

From the author lists of the works presented, one can also see that there exists a great deal of collaborations among the researchers from China and other countries (especially Germany: involving more than 6 Max Planck Institutes, Helmholtz Centers, and universities), as well as from different institutions within China. The Symposium should result in an enhancement of this welcoming trend, which we look forward to seeing in the next West Lake Symposium.

The agenda participant list PPT of talks and other information on the 8th IWLS-LPI can be found at http://iffs.ziu.edu.cn/lpi/



DPP News on APTWG2015

was a series of APTWG conference started at NIFS of Japan in 2011, then at Chengdu of China in 2012, and Jeju island at Korea in 2013, and at Kyushu University of Japan in 2014.

The 5th APTWG international conference consisted of (1) Plenary Session; (2) Working Group Sessions; (3) Poster Sessions; (4) Young Researcher's Forum; and (5) Summary Sessions. The purpose of the Plenary Session is to discuss the important topics in transport physics that have not been clarified yet. In this year, a few talks were selected for the plenary session. 5 topics were chosen for the working group session, i.e. (a) Turbulence suppression and transport barrier formation; (b) Effect of magnetic topology on MHD activity and transport; (c) Non-diffusive contribution of momentum and particle transport; (d) Non-local transport and turbulence spreading and coupling; and (e) Energetic particles and instability. Each working group session consisted of two or three invited talks, several orals and 20 minutes discussion. Poster sessions of 90 min were arranged after the oral sessions of each working group session. Summary talks of each working group were given on the last day

There were 48 invited and oral talks and 109 posters, and over 100 participants from six countries in APTWG 2015. The next conference will be held in Korea in 2016.



Photo of the 5th APTWG international conference

langzhou, Chin DPP News on A3 foresight

Oreanizer of 3rd A3 Foresight Workshop on Spherical Torus Associate Professor, GSFS, The University of Tokyo, Japan

3rd A3 Foresight Workshop on Spherical Torus (ST) was held from Dec. 15 to Dec. 17, 2014, at Oloura Akademia Park Hotel, Kisarazu, Chiba, Japan, as a seminar of A3 Foresioht Program on "Innovative Tokamak Plasma Startup and Current Drive in Spherical Torus" supported by JSPS (Japan) / NRF (Korea) / NSEC (China) since 2012. The enals of this project is to establish center-solenoid-free ST start-up scheme and to comprehend MHD/non-MHD dynamics and transport of center-solenoid-free ST plasmas under the international cooperative framework amono six distinctive ST experiments operated in universities in Japan Korea, and China. As well as personnel exchanges for joint research, workshops and summer schools are convened in this project. Previous workshops were held in Seoul (Jan 2013), and Beijing (Jan 2014), and previous summer schools were held in Tokyo (Jul 2013), and Jeju Island (Jul 2014)

Forty-nine participants attended the 3rd workshop and thirty-nine oral talks focused on ST start-up technique (waves helicity injection meroino etc.) ST plasma physics. ST reactor design and diagnostics. were presented. Education and training of young researcher/students is another important objective of this program. In this workshop, four students were given awards for their outstanding presentation

The next A3 Summer School on ST will be held in Chenodu. China in 2015 summer, and the next A3 workshop on ST will be held in Korea in 2015-2016 winter



Group photo of A3 foresight workshop

DPP News on WLS2015

Hangzhou, Zhejiang Province, China, from May 18th to 21st, covering magnetic fusion, space, and laser plasmas.

The symposium was hosted by Institute for Fusion Theory and Simulation (IFTS), Zhejiang Unversity. Meantime, the symposium was also sponsored by Computational plasma physics division of Computational physics society, and Association of Asia Pacific Physical Societies, Division of Plasma Physics. In addition, the conference was made possible by the more than 90 scientists from China, Japan, Europe and the United States who attended the Symposium

The symposium has started with a welcome address by Prof Liu Chen of IFTS There are totally 34 talks presented in this symposium, including 19 invited talks and 15 contributed oral talks. Among them, Dr. Guoyong Fu of PPPL presented the recent progress in energetic particle driven modes for NSTX using kinetic-MHD model Professor Luo-Chuang Lee from Institute of Earth Sciences. Academia Sinica reviewed three important electrodynamic coupling processes in space plasma physics and provided a new approach to predict earthquake. In another talk, Professor Lee presented new ideas in fusion energy with interesting theory and experiments in joint work with Prof. A. Wong, which raised a lot of interest among the audience. Prof Sugama from NIFS, Japan presented collisional effects in gyrokinetic field theory. Dr. R. Waltz from General Atomics reported the recent progress in modeling burning plasma physics. Some young researchers also presented interesting results, e.g., Prof Chen Min of SJTU proposed a palmtop synchrotron-like radiating source and Prof. Grismayer of UDL Portugal presented PIC simulations for QED.

The graduate students were encouraged to make poster presentations. There are totally 19 posters presented in this symposium



DPP News:ASEAN school DPP News on Council

1s ASEAN School on Plasma and Nuclear Fusion (ASPNF2015 January 6-9, 2015 (https://sites.google.com/site/fusionthai2015/)

The 1st ASEAN School on Plasma and Nuclear Fusion was held under the framework of the Let 1 ASSLAN SCROOL OF PLANTAM BUT POWER POSSON WAS DESIGNED WITH FRANCE AND THE COOPERSON AGREEMENT IN THE FIGE OF MARKET FISHED FOR THE PASS OF THE Pacific Physical Societies: Division of Plasma Physics, Strindhorn International Institute of Technology, Thammasat University, National Research Council of Thailand, Thailand Physics Scorety, and Nuclear Society of Thailand. It was an intensive course taught by fusion experts from January 6, 2015 through January 9, 2014 at Smindhorn International Institute of Technology,

Twenty six participants were selected and joined ASPNF2015. A breakdown by co revealed, 21 participants from Thailand, 2 participants from Malaysia, 1 participant each from Indonesia, India, and Philippine, respectively. A breakdown by position was as follows: 11 graduate students, 4 undergraduate students, and 7 young researchers. The school contained lectures about basic plasma physics and thermonuclear fusion, plasma diagnostic, and simulations for fission

Lectures given are 1. Fusion around the World & ITER. Path for fusion energy (LM Ane. CEA), 2 Pleama Physics and Fusion Research (M. Kikachi, JAEA), 3 Magnetic Fusion Research in France & WEST (T. Houng, CEA), 4 Fusion Research Program in Thailand (T. Onjun, SIT), 5 MCF Concept (J.M. Ané, CEA), 6. ICF Concept (M. Murakami, Osaka University), 7. Laser Fusion for High Energy Density Physics (M. Murakami, Osaka University), 8. Plasma Waves and Impurities (R. Dumont, CEA), 9. Waves and Intabilities in Magnetic Fusion Plasmas (R. Dumont, CEA). CEA) 10 Heating & Current Drive (A. Ekedahl, CEA) 11 Lecture on MHD stability of tokamak CEA), 10. Resump & Cuirent Drive (A. Execuani, CEA), 11. Lecture on MED statistics of Columbia, (M. Kikuchi, JAEA), 12. Transport and turbulence (R. Guirlet, CEA), 13. Diagnostics I (R. Guirlet, CEA), 15. Modeling of Plasma Scenarios I (G. Guirlet, CEA), 16. Diagnostics II (R. Guirlet, CEA), 15. Modeling of Plasma Scenarios I (G. Guirlet, CEA), 16. 16 Modeline of Plasma Scenanos II (G. Giouzza CEA)



DPP News on EPS-DPP2015

Prof. Nat Fish (PPPL) gave an Alfven prize Lecture on Monday, which cover current drive, a Thanneling and ICF physics.

The 13 plenary speakers are Nunes (Mon: JET), Remnington (Mon: Giga bar matter), Sanden (Mon. non-equil. Plasma), Y. Omura (Tues: Whistler chorus emission), Tikhonchuk (Tues: Shock ignition), Hooker (Wed: Laser plasma acceleration), Loureiro (Wed: Magnetic reconnection), H. Wilson (Thur: tokamak pedestal), Tatarova (Thur, grapheme production by plasma), Spitkovsky (Fri: particle erelation and B generation in astrophysical plasmas). Pouvesle (cancer medichine). Peysson (LHCD modeline). Dattoli (free electron coherent radiation sources). There are 65 invited including M. Hori (Tues: cancer plasma medichine), B. Wan (Fri: EAST). There are 94 oral talks including contributions from Asia-Pacific. M. Murakami (ICF), Viola (EAST), Michael (KSTAR), M. Hole (MHD), Kwak (KSTAR), Mima (shock). There are ~570 posters. Contributed papers are available http://ocs.ciemat.es/EPS2015PAP/html/index.html.

There are evening sessions on EUROfusion led by T. Donne, ITER DG B. Bigot's talk and discussions, and Itoh Project, best poster prize presentation at the end of the conference NEXT EPS will be held at Lauven, Belgium in July 4-8, 2016. This is just after the ICPP 2016 (International Congress on Plasma Physics) at Kaohsiung, Taiwan (June 27-July 1).



Fig. H. Alfven prize lecture by Prof. Nat Fish and reception

The 31st AAPPS Council Meeting was held from Feb. 6-7, in Seoul (Renaissance Seoul hotel) Since DDP was approved in 30th A A DDS council in Tainei. I have an appeal report of the DDP activity

Participants are Swan Kim (president), S. Nasamiya (past president), GL Lone (Vice president), and others can be seen from photo. There are society reports from AIP, CPS, PS-Hone Kone, Indonesia PS. Japan-PS, Japan S Applied Phys., Malaysian IoP, IoP-Singapore, PS-Taipei, Vietnam National IoP, KPS. Then, APCTP report by HY Choi.

There is an application of new division, called Division of Astrophysics, cosmology and Gravitatio (DACG) explained by S.P. Kim. Chair is Prof. Misao Sasaki (Yukawa Inst. For theoretical physics), Vice Chairs are R G. Cai (CPS). B. Dawson(AIP). X.G. He(PS-Tainei). S.Y. Kim(KPS). I. Vokovama (secretary general), Advisory committee are J.E. Kim (SNU), S.C. Lee(Acad. Sinica), J. R. Mould(Swinburne U. T.), Katsubiro Sato (NINS), YL Wu (CAS). We will have a close communication with new division with Swan and GL Long(in charge of division). I have reported annual report of activity of DPP activity as attached (requests to the council and accounting information, and agreement between SWIP and AAPPS-DPP are dropped). Foundation of the S. Chandrasekhar prize is unanimously endorsed by the council.

Dr. R. Robinson reported preparation for APPC-13 in Brisbane. Dec. 4-8, 2016 just AOP convress There will be full 4 days and less plenary slots since ASEDS will not be held this time. Unfortunately I have to leave council during his talk. There can be enough parallel sessions



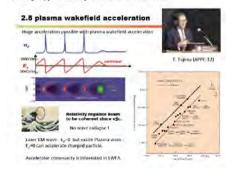
Group photo of 2015 AAPPS council (2: Monika Rahari (Indonesia), 3., 4: R. Robinson(AIP), 5: Shoji Nagamiya (Riken), 6: Swan Kim(AAPPS president, KPS, Postech), 7: Gui Lu Long(CPS, Tsinghia U.), 8: McRuchi (DPP), 9: Swee-Ping (LingMP, Malaya U.), 10: Yoshio Kuramoto(IPS, Folosiu U.), 13: N-Jew Kao, (PS-Taiwan, National Yang-Ming U.), 14: L. Han Tang (PS-Hong Kong, Hon-Kong Baptist U.), 16 asa Iwamoto (JSAP, Tokyo Inst. Tech), 18: Nguyen Q, Liem (Vietnam Nat. 16P), 20: Sang Pyo Kim secretary). Missing are Won Namkung (Postech), Xing Zhu (CPS, Peking U.), Youngah Park (KISTEP)

DPP News :Fermi Prize to Tailma

On September 21, 2015, the Italian Physical Society will award the Enrico Fermi Prize to Toshiki Tajima. Professor at UC Irvine Toshiki Tajima is rewarded 'for the invention of the Tajurus, professor at U.C. itvine. Toshito Tajurus is newaried: for the inversation of the laner wake field acceleration technique which led to a number of fundamental and interdisciplinary, applications ranging from acceleration scenere to plasma physics and astrophysics. 'Assy the Idalian Physical Society, Laser-plasma acceleration is often greenered as the next-penetron technology that will enhance ratho frequency-based accelerators such as eyelotion or synchroroms. It would induced reduce their size by a factor of about 1000. Toshika Tajurus is also a timeless champion of Extreme. Light He is very involved in scientific public outreach in Europe and particularly on the Saclay plateau and took part in projects such as ELI (Extreme Light Infrastructure), IZEST and ICAN. The plateau and took part in projects such as ELI (Extreme Light Infrastructure), IZEST and ICAN. The Enrico Ferim Prize was created 14 years ago, on the occasion of Enrico Ferim's centenary, to reward particularly remarkable work led by members of the Italian Physical Society.

https://www.uob/technique.edn/en/content/toshikr-Linina-winner-enuco-fermi-ocus-

Following is my presentation to explain Wakfield acceleration at IMFP2013.



DPP Endorsed conference (I-HAC member F. Cheng chair)

18th International Congress on Plasma Physics (ICPP 2016) 6/27 - 7/01in Kaohsiung, Taiwan during June 27-

July 1, 2016 (http://www.isaps.ncku.edu.tw/ICPP2016/). (http://www.isaps.ncku.edu.tw/ICPP2016/).



The scientific program of ICPP-2016 consists of eight areas:

(1) Magnetic Confinement Plasmas (MCP)

Chair: Mitsuru Kikuchi (JAEA)

Co-Chair: Sadruddin Benkadda (AMU-CNRS)

(2) Beam and Laser Plasmas (BLP)

Chair: Robert Bingham (STFC)

Co-Chair: Wei Lu (Tsinghua University)

(3) Space Plasmas (SP)

Chair: Yoshiharu Omura (Kyoto University)

Co-Chair: Jay R. Johnson (Princeton Plasma Physics Laboratory)

(4) Astrophysical Plasmas (AP)

Chair: Hui Li (Los Alamos National Laboratory)

Co-Chair: Ryoji Matsumoto (Chiba University)

(5) Basic Plasma Physics (BPP)

Chair: George Morales (University of California Los Angeles)

Co-Chair: Yasushi Ono (University of Tokyo)

(6) Plasma Diagnostics & Space Instrumentation (PDSI)

Chair: Tony Donne (EUROfusion)

Co-Chair: Yoshifumi Saito (ISAS/JAXA)

(7) Low Temperature and Dusty Plasmas (LTDP)

Chair: Osamu Ishihara (Chubu University)

Co-Chair: Edward Thomas (Auburn University)

(8) Plasma Applications (PA)

Chair: Satoshi Hamaquchi (Osaka University)

Co-Chair: Jong-Shinn Wu (National Chiao Tung University)

Appendix 2: ICPP 2016 Plenary and Invited

8 Plenaries:Bernard Bigot(ITER), Chandrashekhar Joshi(UCLA), Vladimir Nosenko(DLR), Hidenori Akiyama (Kunamoto U.), Hirotsugu Kojima (Kyoto U.), Tito Mendoca (IST), Valery Nakariakov (U.Warwick), K.Shibata (Kyoto U.)
Public lecture: Atsuo Iivoshi (Chubu University, Japan)

Invited: 30 MCP [T.Donne (EuroFusion), A.Kallenbach (IPP-Garching), W.Heidbrink (UC Irvine), M.Xu (SWIP), P.H. Diamond(UCSD), S.Inagaki (Kyushu U.), T.Klinger (IPP-Greifswald), YK.In (NFRI), C.Angioni (IPP-Garching), K.Imadera (Kyoto U.), TS.Hahm (SNU), N.Miyato (JAEA), S.Briguglio (ENEA), T.Ido (NIFS), J.Ghosh (IPR), J.Berkery (PPPL), D.Zarzoso (Aix Marseille U.), V.Chan (USTC), E.Marmar (MIT), C.Theiler (CRPP), P.Martin (U. Padova, Italy), T.Kobayashi (NIFS), Q.Hu (HUST), M.Honda (JAEA), J.Garcia (CEA), H.Park (UNIST), V.Rozhansky (St. Petersburg P. U.), M.Muraglia (Aix Marseille U.), JE Menard (PPPL), W.Horton (U. Texas), Y.Ren (PPPL)]

20 LBP [V.Malka (LOA), P.Norreys (STFC, Oxford), G.Gregori (Oxford), W.Mori (UCLA), L.Silva (IST), Z.Najmudin (Imperial College London), J.Hua (Tsinghua U.), Y.Ding (Laser Fusion Research Center), C.Pai (Tsinghua U. & NCU), H. Azechi (Osaka University), C.H Nam (IBS Center), R.Trines (STFC), K.Krushelnick (U. Michigan, USA), D.Hinkel (LLNL), J.Vieira (IST), H.Chen (LLNL), B.Remington (LLNL), M.Rosen (LLNL), V.Tikhonchuk (LMJ), S.Weber (Extreme Light Infrastructure)]]

29 PA [I.Adamovich (Ohio State U.), Y.Akishev (Troitsk Institute Innovation & Thermonuclear Research), JP Boeuf (CNRS and U. Toulouse), R.Boswell (ANU), C.Charles (ANU), EH Choi (Kwang Woon U.), U.Czarnetzki (Ruhr U. Bochum), T.Gans (U. York, UK), D.Graves (UCB), JCC Hsu (National Taiwan U.), T.Kaneko (Tohoku U.), M.Keidar (George Washington U.), Y.Lebedev (Russian Academy of Science), T.Murphy (CSIRO), R.Ono (U.Tokyo), L.Pitchford (CNRS and U. Toulouse), S.Rauf (Applied Materials, Inc.), K.Takaki (Iwate U.), R. van de Sanden (FOM institute DIFFER), GY Yeom (SungKyunKwan U.), Y.Nishida (NCKU), S.Shinohara (TUAT), G.Cartry (Aix-Marseille U.), Y.Tanaka (Kanazawa University), J.Schulze (West Virginia University), K.Sasaki (Hokkaido University), G.Oehrlein (University of Maryland), JK Lee (Pohang University of Science and Engineering), A. Mase (Kyushu University)],

29 PDSI [TS Pedersen (IPP), J. Chung (NFRI), L. Reusch (University of Wisconsin-Madison), A. Melnikov (Kurchatov Institute), R. Magee (Tri Alpha Energy), W.Biel (FZJ, Germany), N.Luhmann (UC-Davis), J.Santos (CELIA, Bordeaux), K. Shigemori (Osaka University), R. Kumar (TIFR Mumbay), P. Patel (LLNL), K.Oades (AWE), W.Choe (KAIST), Milan Simek (Institute of Plasma Physics AVCR, Prague), Takayuki Ohta (Meijo U.), Greg Severn (UCSD), L.Boufendi (University of Orleans), J. Roepcke (INP Greifswald), HK Fang (ISAPS/NCKU), I.Yoshikawa (U. Tokyo), S.Barabash (Swedish Institute of Space Physics (IRF)), A.Fedorov (IRAP Toulouse), D.Knudsen (U.Calgary), B. Ergun (U.Colorado), KH Glassmeier (U.Braunschweig), D.Miles (U.Alberta), Y.Saito (ISAS), KW Min (KAIST), A.Zaslavsky (OBSPM)]

19 BPP [N.Hurst (UCSD), G.Tynan (UCSD), C.Crabtree (NRL), G.Livadiotis (Southwest Research Institute), Y.Kosuga (Kyushu U.), V.Ilgisonis (Kurchatov National Center), M.Inomoto (U.Tokyo), T.Killian (Rice U.), Y.Nishimura (NCKU), K. Takahashi (Tohoku U.), B.Van Compernolle (UCLA), Y. Xu (Southwestern Institute of Physics), S. Usami (NIFS), M. Koepke (West Virginia U.), H.Bailung (Institute of Advanced Study in Science and Technology), MC Firpo (CNRS-Ecole Polytechnique), M. Toida (NIFS), E. de GD Pino (U. Sao Paulo), N. Nishizuka (National Institute of Information and Communications Technology)]

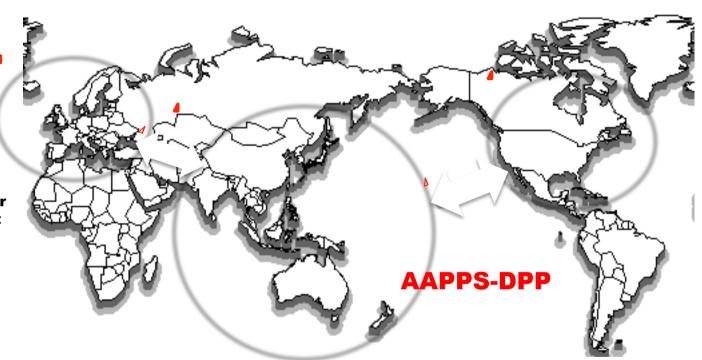
24SP [G. Parks (UC Berkeley), LJ Chen (U. New Hampshire), Y. Lin (Auburn U.), P. Delamere (U.Alaska), B. Anderson (Applied Physics Laboratory), C. Kletzing (U. Iowa), H. Li (LANL), J.Buechner (Max Planck Institute), D.Shklyar (IKI Russian Space Agency), D.Summers (Memorial University of Newfoundland), I.Cairns (U. Sydney), M.Hoshino (U.Tokyo), Y.Ebihara (Kyoto U.), K. Kusano (Nagoya U.), K. Seki (U.Tokyo), G.Choe (Kyung Hee U.), Q.Zong (Peking U.), Ya-Hui Yang (NCU), B.Lembege (LATMOS), M.Wan (U.Delaware), H.Hara (NAOJ), A.Vaivads (Swedish Institute of Space Physics), C.Kuranz (U.Michigan), S.Fu (Peking U.)

26AP [H. Hotta (High Altitude Observatory), H.Takahashi (NAO), B.Reville (Queen's U. Belfast), E.Amato (INAF/Osservatorio Astrofisico di Arcetri), Ganfranco Brunetti (INAF Istituto di Radioastronomia), T.Amano (U.Tokyo), J.Cho (Chunganm National U.), D.Ryu (UNIST), B.Li (School of Space Science and Physics, Shandong U.), S.Xu (PKU), A.Larzarian (U.Wisconsin), A.Bykov (Ioffe Institute), P.Drake (U.Michigan), M.Baring (Rice U.), F.Casse (U. Paris Diderot Paris VII), M.Nakamura (ASIAA), B.Qiao (Peking U.), T.Terasawa (U.Tokyo), M.Zhang (National Astronomical Observatories), S.Inutsuka (Nagoya U.), C.Forest (U.Wisconsin), Z.Yao (Institute of High Energy Physics), P.Bellan (Caltech), T.Suzuki (Nagoya U.), H.Ji (Princeton U.), C.Li (MIT)]

Cooperation among APS-EPS-AAPPS (DPP cooperation)

European Physical society (EPS) Division of plasma physics

American Physical society (APS)
Division of plasma physics



EPS-DPP chair **S.** Jacquemot



EPS-DPP 2016 PC chair



EPS-PC member: No PC member in the past.
Only Plasma and Fusion society asked nominate Invited.
Now, EPS-DPP asked me representing AAPPS-DPP
to come to EPS-PC.

Outcome: 3 Plenary/invited (2015) -> 9 Plenary/evening/invited (2016) from Asia-Pacific

AAPPS-DPP Prize : S. Chandrasekhar Prize of Plasma Physics

AAPPS-DPP



Prospectus: S. Chandrasekar Prize of Plasma Physics

AAPPS-DPP executive committee

1. Foundation of S. Chandrasekar Prize

Subrahmanyan Chandrasekhar (1910-1995) was an Indian-American astrophysicist who was awarded the 1983 Nobel Prize for physics for his theory of black hole. He worked in various areas including plasma physics. Plasma physics community is benefited from his works through his textbooks such as "Principles of stelar dynamics (1942)", "Plasma Physics (1975)", "Hydrodynamics and Hydromagnetic stability (1981)".

In 2014, we have established the Division of Plasma Physics under AAPPS. Asia-Pacific region is rapidly growing economically and scientifically. A large number of new programs on various fundamental and applied aspects of plasma physics are emerging in several countries of Asia and the Pacific regions. Young people taking up careers in plasma science in these regions look forward to the prestige of recognition by their peers and this becomes more



S. Chardwellow

equitable when your peers are intimately familiar with your work. This will also give a "sense of accomplishment" to the Asia-Pacific region as a whole because the body of significant work already pioneered by the Awardees will be ascribed to this region. The executive committee of division of plasma physics after consultation to I-HAC (International Honorary Advisory Committee) decided to establish Plasma Physics Prize after S. Chandrasekar to recognize seminal/pioneering works in this field.

2. Description of the S. Chandrasekar Prize

The Chandrasekhar Prize is awarded by the Division of Plasma Physics of the AAPPS to recognize outstanding contributions to experimental and/or theoretical research in fundamental plasma physics and plasma applications in all fields of physics.

- Rule: This Prize will be given to an AAPPS-DPP member who has made seminal / pioneering contribution to any field of plasma physics or plasma applications as stated above.
- ii) Nomination: Necessary documents and time schedule for nomination will be announced in the DPP home page. DPP seeks outstanding nominations worldwide and especially from the Asia-Pacific region.
- iii) Selection: Selection will be made by the Chandrasekhar Prize Selection Committee annually.
- iv) Selection Committee: DPP-ExCo will appoint Chair and members of selection committee taking into account of the I-HAC recommendations.
- v) Award Ceremony: Certificate, Medal and a cash award will be bestowed to the awardees at the APPC conference held every three years.
- vi) Obligations: Chandrasekhar awardees should deliver invited talks in the APPC as well as contribute review papers to the DPP journal.

3. Call for Sponsorship and Contribution

Division of Plasma Physics (DPP) seeks the official sponsorship by any organizations and personal contributions in support of above prospectus. Contribution will be used for DPP operation and awards. Official sponsorship by the organization will be recorded in the diploma of DPP Awards and the home page. Official sponsorship shall be one or more units in the US \$ 5,000. You may visit AAPPS-DPP HP at http://aappsdpp.org/AAPPSDPPF/index.html.

1st S. Chandrasekhar prize Prof. Em. Setsuo Ichimaru (2014)







Citation: For his contributions to the establishment of the theoretical basis of the science of **strongly coupled plasmas** and their applications, not only to laboratory plasmas and plasmas in solid- or liquid-state materials including fusion plasmas, but also to important astrophysical plasma phenomena including radiation and nuclear reactions.

Many congratulatory inc. APS-DPP chair

Certificate: DPP provide

Medal : From India (IPR)
Cash : China (SWIP)

AAPPS-DPP Prize : S. Chandrasekhar Prize of Plasma Physics

ITER NEWSLINE -

An award for India's PK Kaw

newsline I An award for India's PK Kaw

Professor Predhiman Krishan Kaw from the Institute for Plasma Research in India has been named the 2015 laureate of the Subrahmanyan Chandrasekhar Prize for "outstanding contributions" in the field of plasma physics, said a press release issued on 13 January by the Association of Asia-Pacific Physical Societies (AAPPS). Division of Plasma Physics.



The Subrahmanyan Chandrasekhar Prize has been awarded to Professor Kaw (left) for "outstanding contributions" in the field of plasma physics.

Recognized internationally for significant contributions to many areas of plasma physics, Professor Kaw has authored over 380 research publications in scientific journals. The prize specifically recognizes "seminal contributions in the areas of laser-plasma interactions, strongly coupled dusty plasmas, turbulence, and non-linear effects in magnetic fusion devices."

After obtaining a PhD at age 18 from the Indian Institute of Technology, Delhi, Professor Kaw spent time as a researcher at the Physical Research Laboratory in Ahmedabad, India, and the Princeton Plasma Physics Laboratory, New Jersey, US. In 1982 he returned to India to spearhead the establishment of a national magnetic fusion program, founding the Institute for Plasma Research and playing a leading role in gaining international recognition for the national program. Named Year of Science Chair by the Indian Department of Science & Technology, he continues to be active in research and in the mentoring and training of the younger generation of plasma physicists in India.

Congratulatory messages

- APS-DPP chair D. Mayerhofer,
- EPS-DPP chair S. Jacquomot
- ITER DG B. Bigot

2015 S. Chandrasekhar prize Prof. Predhiman Kaw







Citation: For his seminal contributions in the areas of laser-plasma interactions, strongly coupled dusty plasmas, and turbulence, nonlinear effects in magnetic fusion devices.

Certificate: From DPP

Medal: From India (IPR)

Cash : partly Japan(future energy association)

AAPPS-DPP Education program : 2nd ASEAN plasma and fusion school Jan.17-22

CEA(French)-TINT(Thailand) agreement, co-sponsored by AAPPS-DPP T. Onjun (DPP chief secretary) : organizer 4 lecturers from Japan (AAPPS-DPP contribution)



Toward APPC-13

DPP started APPC 13 preparation from Feb 2015 according to By Law of Division of AAPPS. But it turned out to be we are not allowed after many contacts with LOC members.

DPP asked in last council for allowance to actively organize plasma physics program and attract more participants in the APPC-13.

For APPC-13 plenary for plasma physics, LOC implied only 1 plenary and DPP nominated S. Ichimaru through M. Hole (PC member) and IAC member Prof. M. Sasao but not selected.

[Note APPC-12 Organizing Committee gave 4 plenaries, 41 invited and 46 oral splots to DPP].

Invited speakers for APPC-13: According to LOC request, DPP submitted ~100 candidates of invited in July 2015. It seems be used as database for selection of plenary but no decision on invited after 6 months.

Proposal of new DPP Journal:

Negotiation to one publisher was not successful and another publisher gave satisfactory counter proposal to AAPPS-DPP.

- 1. Name of journal: "Reviews of Modern Plasma Physics" in short RMPP
- 2. Concept of RMPP:
- High quality international review journal specialized in plasma physics
- High **impact factor** above 10 (target)
- Cutting-edge reviews and tutorials of modern plasma physics for the Asia-Pacific region
- 3. Planned first publication: January 2017.
- 4. **Term**: first contract may be **5 years** subject to renewal.
- 5. **Journal model**: *hybrid journal model*, i.e. a subscription journal with an option to choose open access. If author wants to select open access, he/she has to pay. If not, **free charge**.
- 6. First two years will be fully open access and from 3rd year, all articles will be closed access (subscription).
- 7. Publication model: Continuous article publishing model.
- 8. Royalty to AAPPS-DPP: 25% of net revenue after 3rd year.
- 9. Merit for AAPPS-DPP members: *Free access to individual DPP members* but not for institutional members. For authors, USD 100\$ book voucher.
- 10. S. Chandrasekhar prize laureates are requested to write review papers.

Future plan

- Patience until we have stable income (WEB adv., Journal, SC prize sponsor).
- Contribution to APPC-13.
- Start up DPP journal.
- DPP fellowship (related to journal)
- Plan for DPP's own conference.
- Selection rule of 2nd DPP chair/Ex Co.