

Evening Session 1, Nov. 5, 19:00-19:30
Fenghua 3



Report on Division of Plasma Physics, AAPPS

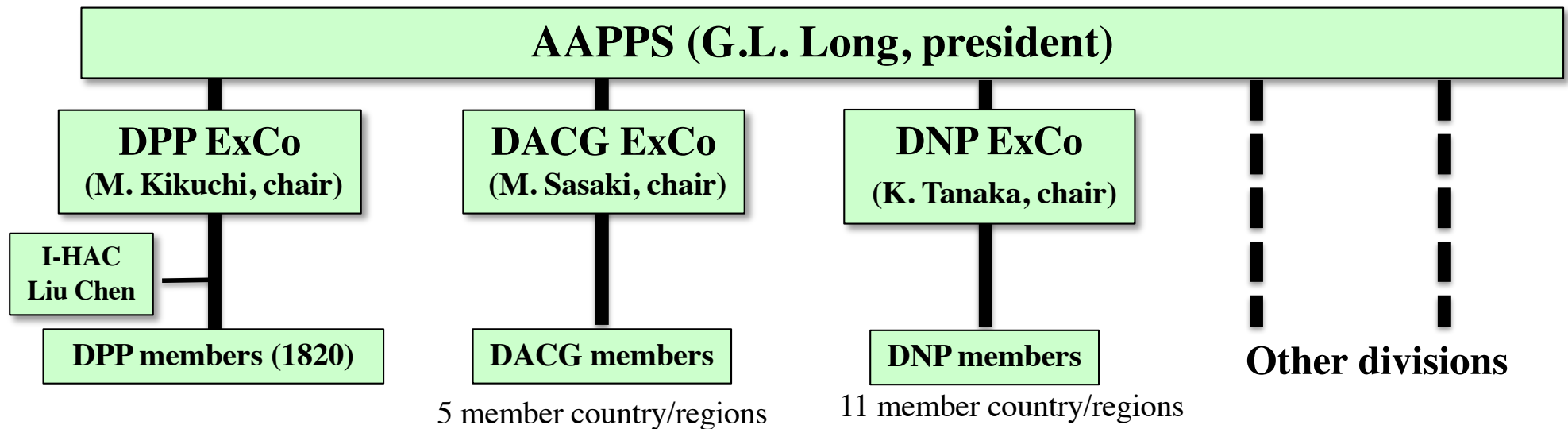
**M. Kikuchi,
AAPPS-DPP chair & CEO**

What is AAPPS-DPP?

- Division of plasma physics under AAPPS

Objective of DPP

- shall be the advancement and dissemination of the knowledge, understanding and applications of plasmas of natural and laboratory origin.



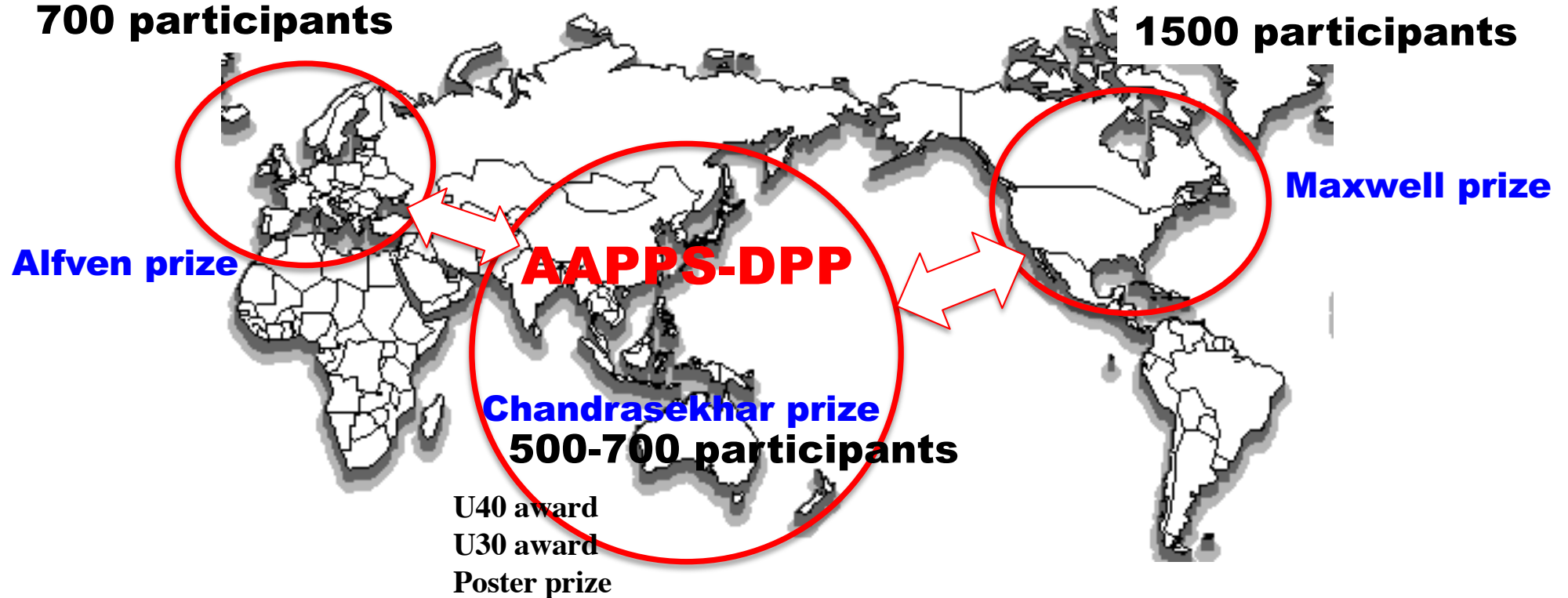
AAPPS (DPP cooperation)

**European Physical society (EPS)
Division of plasma physics**

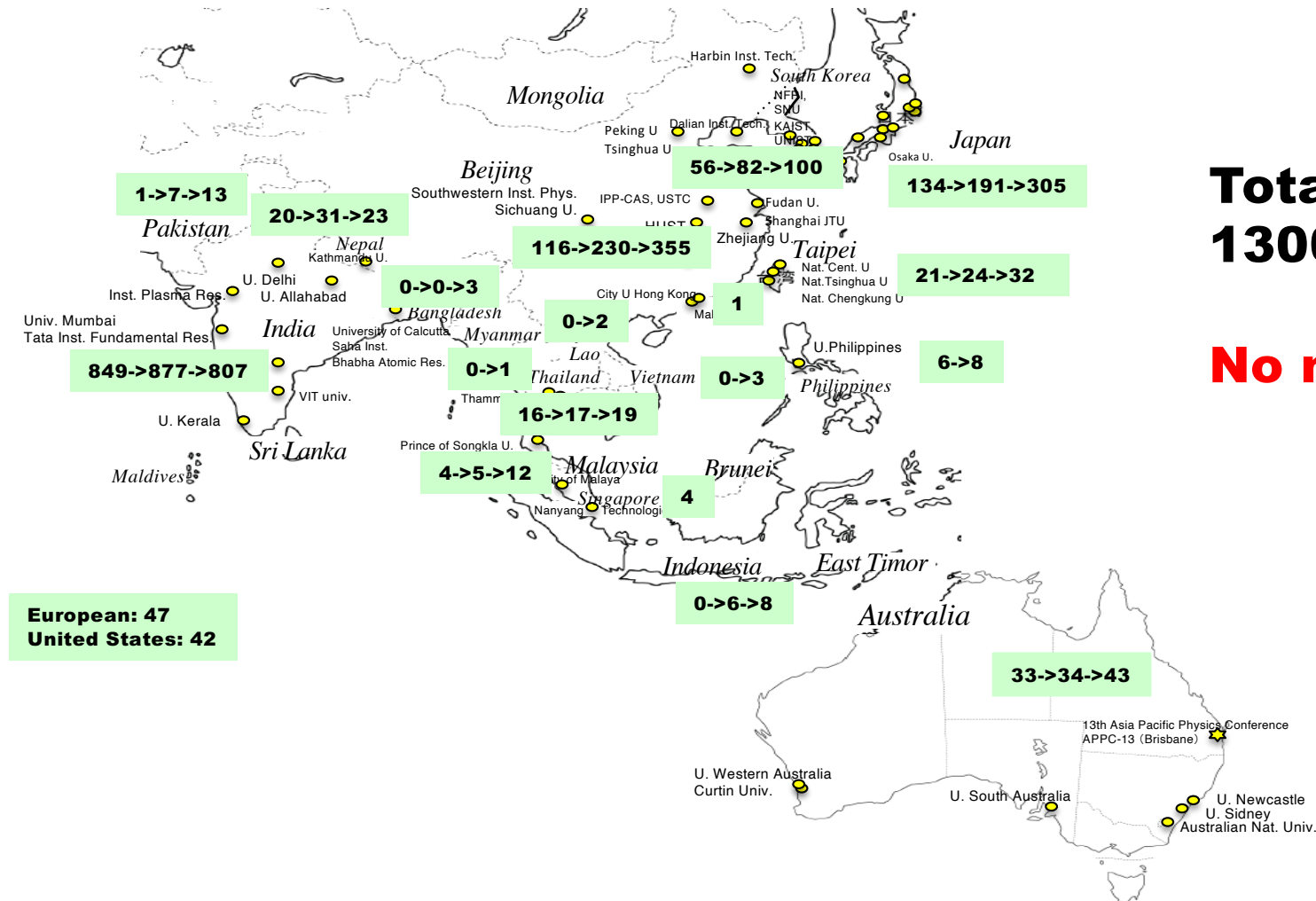
700 participants

**American Physical society (APS)
Division of plasma physics**

1500 participants



Membership distribution



**Total member
1300 -> 1600->1820**

No membership fee



DPP: Y. Liu

New Zealand



DPP Membership 2016.01 -> 2017.9.17->2019.09.05

Board of Directors (**decision body** 2018.11-2020.11)

					Amita Das ↓ Manchikanti Krishnamurthy		
M. Kikuchi Chair&CEO	B. Wan Chair Elect	Z. Yoshida Fundamental	SH Chen Basic	JS Yoon Applied	Laser	XH Deng Space	R. Matsumoto Solar/astro
							
Min Xu Mag. Fusion	RS Rawat APPC-14	M. Shiratani Budget	M. Hole ASEAN+Aus.	H. Nagai Executive	Y. Uesugi Auditor	Y. Liu Secretary	

I-HAC(**advisory body** 2017-2020)

International honorary advisory committee



L. Chen
Chair

A. Sen
Vice Chair



A. Hasegawa

R. Dewar

P. Diamond

SI Itoh

C.S. Liu

Lin I

CS Wong



O. Ishihara

R. Ganesh

R. Hatakeyama

FF Chen

R. Boswell

SJ Yoo

K. Mima

X.T. He

T. Tajima

C.H. Nam



H. Hora

B. Buti

Z. Pu

R. Fujii

DH Lee

K. Shibata

A.R. Chaudhuri

JX Wang

Y. Wan

H. Park



A. Komori

Y. Liu

W. Namkung

XG Wang

H. Suk

PK Chattopadhyay

D. Melrose

CZ Cheng

LC Lee



DPP Homepage (Linked from AAPPS HP)

work by H. nagai

DPP News

ate of 2015 S. Chandrasekhar Prize!!
(Release/Japanese) Congratulatory Wordings

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

Call for Donation for S. Chandrasekhar Prize of Plasma Physics

- January 17, 2016
See Web advertisement.
DPP News January 17, 2016
- January 14, 2016
First Announcement of the 43rd EPS Conference on Plasma Physics.
DPP News January 14, 2016
- January 14, 2016
Meeting information; Vidisha Conference.
DPP News January 14, 2016
- January 14, 2016
ICPP2016 abstract submission ready.
DPP News January 14, 2016
- January 13, 2016
Report of 10 year celebration of plasma physics lab. in Nepal.
DPP News January 13, 2016
- January 13, 2016
Prof. Francis Froyon passed away.
DPP News January 13, 2016
- January 13, 2016
2015 S. Chandrasekhar Prize Laureate is Prof. Predhiman Kaw.
DPP News January 13, 2016 Congratulatory Wordings Press Release

Upcoming meeting

Education
Job Opportunity

Upcoming Meetings

- APEA 2015, Dec.14-18, 2015, Gandhinagar, India
- 2015 ITER International School, 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, Hangzhou, China
- The 18th International Congress on Plasma Physics (ICPP-2016), June 27-July1, 2016, Kaohsiung, Chinese Taipei
- EPS 2016, July.4-8, 2016, Leuven, Belgium

Education/school

Home Education AAPPS-DPP
Schools & Books

There are number of plasma schools which may be useful for Asia researchers. This page provide informations schooling opportunity 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 and
 - * 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 the Cooperation Agreement in the Field of Magnetic Fusion Research TINT/SHTU.
 - **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, CI 2014.

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

S. Chandrasekhar Prize

S. 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 stellar dynamics (1942)", "Plasma Physics (1973)", "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 thus become more equitable when your peers are intimately familiar with your work. This will also give a "sense of accomplishment" in the Asia-Pacific region as a whole because the body of significant work already powered by the Awarders will be awarded 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. Chandrasekhar to recognize seminal/pioneering works in this field.

2. 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.

- i) 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.
iii) Selection Committee: Selection will be made by the Chandrasekhar Prize Selection Committee annually.
iv) Award Ceremony: Certificate, Medal and a cash award will be bestowed to the awarders at the APPC conference held every three years.
v) Obligations: Chandrasekhar awarders 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 prospects. Contribution will be used for DPP operations 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 IIP at <http://aappsip.org/AAPPSDPP/index.html>.

4. Nomination guideline
Any DPP members (not a member of the committee making the selection) may submit one nomination or seconding letter for the prize in any given year. A nomination should include: A letter evaluating the nominee's qualifications in the light of the particular features of the prize and identifying the specific work to be recognized.
Nomination statement shall include:

Web advertisement

JEOL
Company Philosophy
On the basis of "Creativity" and "Networks and Development", JEOL, positively challenges the world's highest technology, thus forever contributing to the progress in both science and human society through its products.

TOSHIBA
Leading Innovation
Toshiba Corporation, a Fortune Global 500 company, channels world-class capabilities in advanced electronic and electrical product and systems into five strategic business domains: Energy & Infrastructure, Community Solutions, Healthcare Systems & Services, Electronic Devices & Components, and Lifestyle Products & Services.

HEETEC
High-Power Electrical Equipment Testing Center of CASHIPS
High-Power Electrical Equipment Testing Center of CASHIPS (abbreviated as HEETEC), equipped with the largest DC power test platform and steady state test platform in China, is a professional test organization on high power electrical equipment.

HEFEI KEJUGAO TECHNOLOGY CO., LTD
HEFEI KEJUGAO TECHNOLOGY CO., LTD is a sole corporation established by the Institute of Plasma Physics, Chinese Academy of Sciences. KEJUGAO has deeply participated in ITER international cooperation projects and can offer the Fusion Engineering Technology Division with comprehensive solutions in designing, researching, and testing.

CHINESE LASER PRESS
Founded in 2009, Chinese Laser Press (CLP) is a non-profitable company providing professional multilateral connections for the laser, optics and photonics community, through publishing, meetings, and other activities.

Join DPP membership

- I) If you are participants of APCC-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 molecular processes in plasmas, plasma simulation, complex and non-neutral plasmas, 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@gmail.com
or inadara@center.las.kyute-u.ac.jp (substitute @ for /)
- II) If you are not the APCC-12 participant:**
Please ask any AAPPS-DPP member for your recommendation and send his/her information to AAPPS-DPP secretary.
Present AAPPS-DPP members are founders of AAPPS-DPP and only one member's record required.
- The member fee is free at this moment!
For your registration, please use the following form.

DPP endorsed conferences

- AAPPS-DPP Meetings**
- 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, Japan
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 Hangzhou, China
Host: Institute for Fusion Theory and Simulation, Zhejiang University
Co-sponsor: AAPPS-DPP
Topics: Novel Radiation Sources, Advanced Particle Accelerators, Laser-Driven Radiation Reaction Effects, Computational Plasma Physics, Laser-Plasma Applications

AAPPS Meetings

The 13th Asia-Pacific Physics Conference will be held in Brisbane in December 2016, in con 2016 AIP Congress
2014 AIP Congress

Upcoming meetings

Home	Meetings in 2014-2015	AAPPS-DPP info
April 21-25, 2014	Hangzhou, China	The 8th International West Lake symposium
May 13-15, 2014	Heifei, China	Important Conference on Quantum Algorithms and Methods for Plasma Physics
May 18-20, 2014	Niigata, Japan	10th International Plasma Physics Conference and Technical Course of Plasma Physics
June 10-12, 2014	Kasuga, Japan	4th Asia-Pacific Transport Working Group Conference
June 27-30, 2014	Singapore	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
July 1-4, 2014	Jeju Island, Korea	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
July 18-20, 2014	London, China	The 10th Asia-Pacific Plasma Theory Conference and 10th Asia-Pacific Plasma Physics Conference
Aug 11-13, 2014	Arakawa, Japan	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
Aug 18-20, 2014	London, Portugal	International Conference on Plasma Physics, ICPP2014
Aug 21-23, 2014	Beijing, China	12th International Conference on High Energy Density Physics, ICHED2014
Aug 24-26, 2014	Karlsruhe, Germany	International Conference on Plasma Physics and Applications
Aug 27-29, 2014	Osaka, Japan	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
Aug 31-33, 2014	Niigata, Japan	Plasma Conference 2014
Sept 1-3, 2014	Daejeon, Korea	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
Sept 15-17, 2014	Kyushu, Japan	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
Sept 22-24, 2014	Osaka, Japan	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
Sept 27-29, 2014	Trieste, Italy	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
Oct 1-3, 2014	Osaka, Japan	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
Oct 15-17, 2014	Osaka, Japan	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference
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Dec 27-29, 2015	Osaka, Japan	12th Asia-Pacific Plasma Theory Conference and 12th Asia-Pacific Plasma Physics Conference



1st Asia-Pacific Conference on Plasma Physics
首届亚太等离子体物理大会

Programme

September 18-23, 2017

 ChengDu China 中国 成都



~500 participants

Organized by AAPPS-DPP

Hosted by SWIP

(LOC chair: Y. Liu)

IOC chair: Liu Chen

General PC chair: M. Kikuchi

Fundamental chair: TS Hahm

Basic chair: A. Sen

Applied chair: M. Shiratani

Laser chair: ZM Sheng

Space chair: Lou C. Lee

Solar/Astro chair: K. Shibata

Magnetic F. chair: B. Wan



AAPPS-DPP 2018

2nd Asia-Pacific Conference on Plasma Physics



Program



November 12-17, 2018

Kanazawa JAPAN



Division of Plasma Physics Association of Asia Pacific Physical Societies



2nd conference in Kanazawa
K. Mima: IOC chair

682 participants



2018 S. Chandrasekhar Prize of plasma physics



Toshiki Tajima :
laser-driven wakefields as robust and long-lasting plasma states



U40 Award



T. Amano H. Hotta Y. Feng W. Zhong



ZX Wang Chao Chang WM Wang

U30 Award



N. Sato M. Thompson G. Hazra



Z. Zhang T. Dornheim LM Singh



	Plenary	Invited	Oral	Poster	Total
S. Chandrasekhar	1				1
Evening talks	6				6
Cross Disciplinary	5	22	5	0	32
Fundamental	4	23	11	2	40
Basic	5	53	13	31	102
Applied	5	22	26	61	114
Laser	5	38	12	25	80
Space/Geomag	5	23	9	9	46
Solar/Astro	5	23	12	9	49
Magnetic Fusion	6	46	24	39	115
Total	47	250	112	176	585

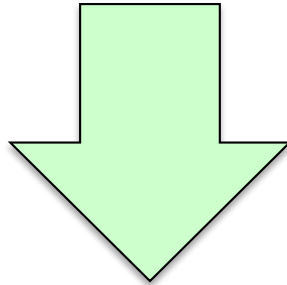


Fig. 4: Poster Prize winners.



DPP becomes Legal Entity in 2018

AAPPS-DPP: Voluntary organization (2014-2018)



**Kanazawa conference
(DPP had financial authority)**

AAPPS-DPP: Regally registered (Nov. 28, 2018)

AAPPS-DPP Association Inc.

- **DPP chair, CEO, Board of directors, General assembly**

Symbolic, executive, decision body

AAPPS-DPP 2019
3rd Asia-Pacific Conference on Plasma Physics
Program

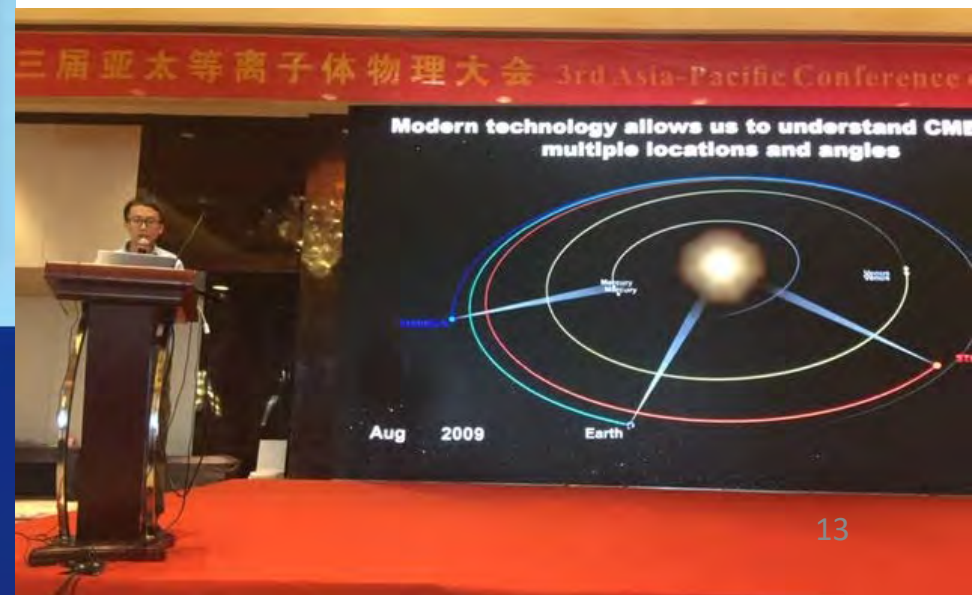


November 4-8, 2019, Hefei, China

Department of Engineering and Applied Physics, USTC



IOC chair: Yuanxi Wan
LOC chair: Ge Zhuang
Participants: ~400?



14th ASIA PACIFIC PHYSICS CONFERENCE

Sarawak State
Legislative Assembly Building

Kuching Waterfront

DATE

17 – 21 November 2019

VENUE

Borneo Convention Centre Kuching (BCCK)
Sarawak, Malaysia



Participants: ~500
DPP : ~100

APPC-12:1300/ DPP 300

APPC-13: 200/ DPP100

Plenary:

Jie Zhang (SJTU)

DPP:

Kazunari Shibata (Kyoto)

Liu Chen (ZJU)

Bertrand Lembege
(LATMOS-CNRS)

Miran Mozetic
(Institute Jozef Stefan)



2019 S. Chandrasekhar Prize

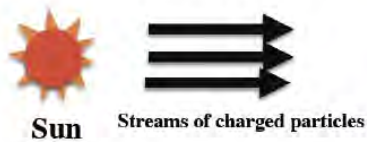
Sponsored by ENN Energy Research Institute & Top Glove



Magnetic Pulsation Theory

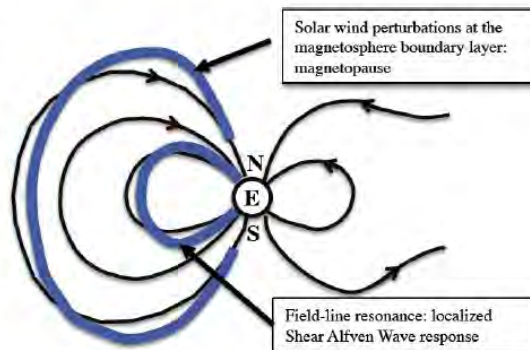
Standard model for all magnetosphere

“Solar wind”

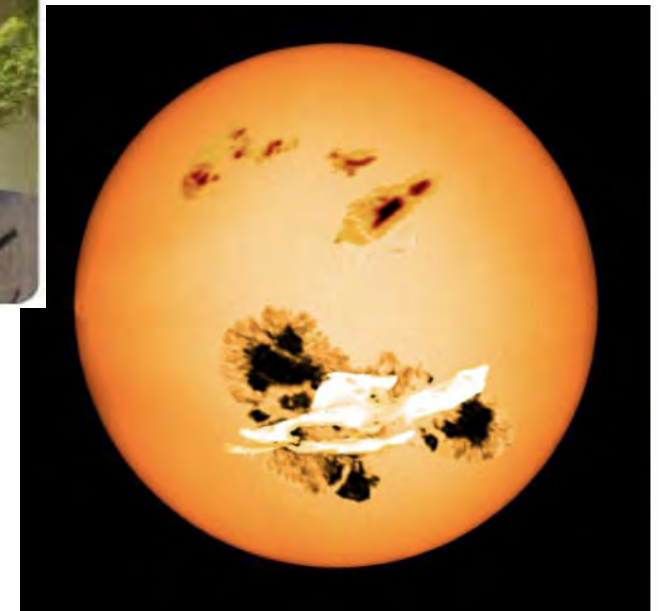


L. Chen, A. Hasegawa, JGR1974

Fig. 1: Liu Chen's magnetic pulsation theory.



Super flare

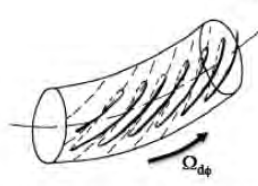


Magnetic Fusion “Fishbone Mode” Theory

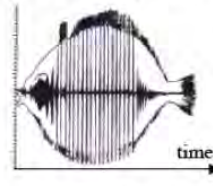
L.Chen, R.B White, M.N Rosenbluth, PRL1984



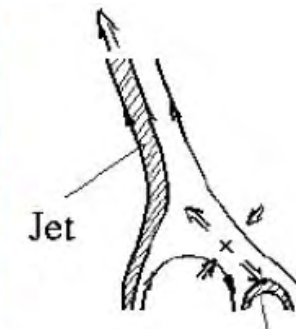
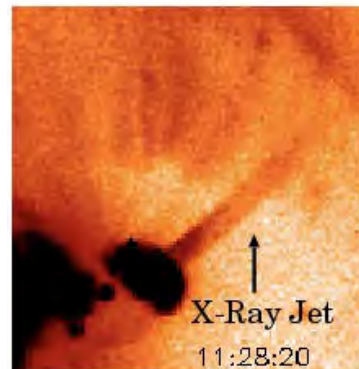
Fusion donuts (like ITER)



Energetic particle(EP) precess at Ω_{dp}



EP excites Ω_{dp} magnetic oscillation like “Fishbone”

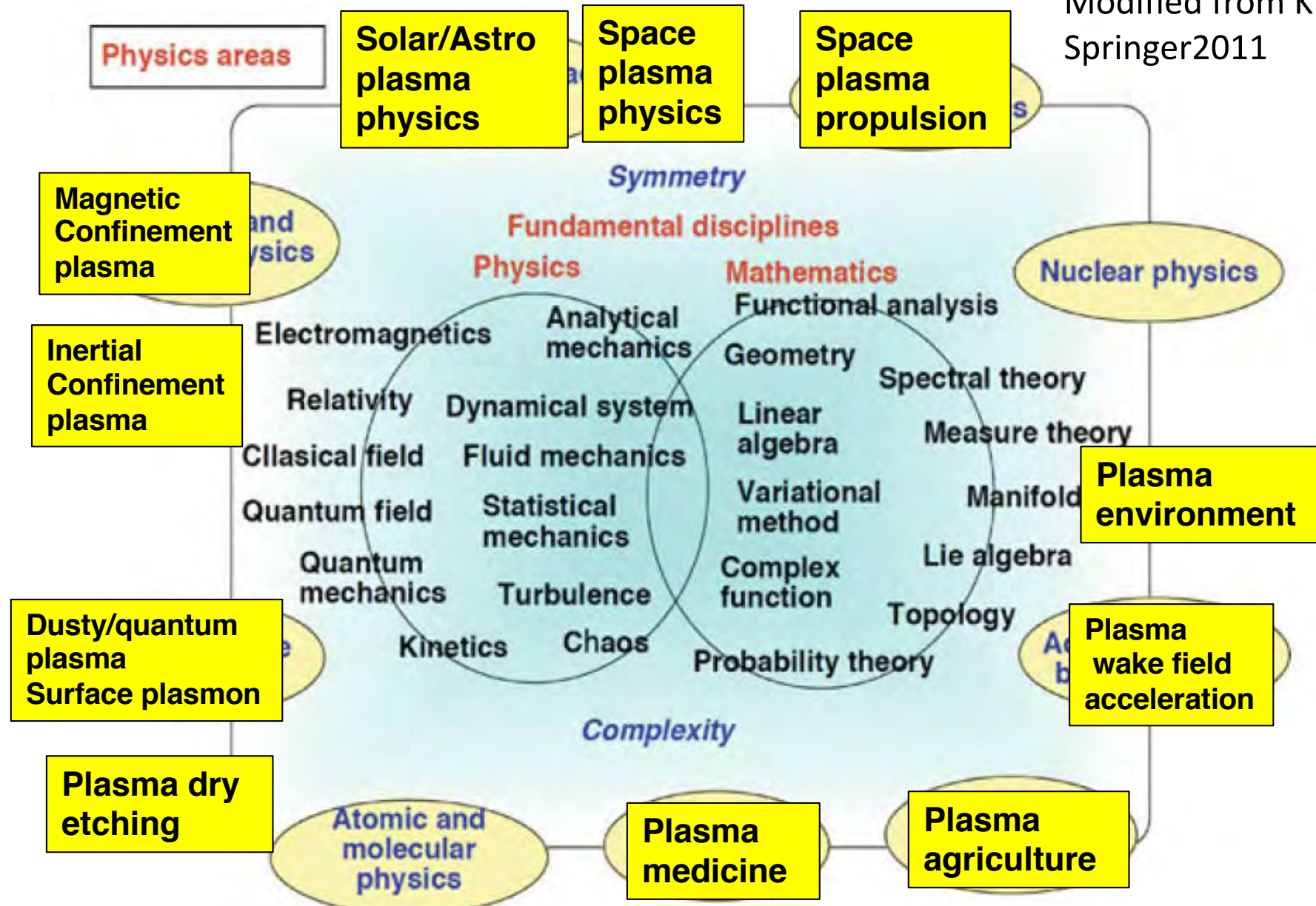


Solar X-ray jet and mechanism

Make plasma physics fundamental discipline!!



Modified from Kikuchi,
Springer2011





- **2013: APPC-12 (Makuhari, Japan)**
- **2014: Start DPP, Start S. Chandrasekhar Prize**
- **2015: S. Chandrasekhar**
- **2016: APPC-13(Brisbane, Australia)**
- **2017: 1st AAPPS-DPP conf., Chengdu, Sept. RMPP journal**
- **2018: 2nd AAPPS-DPP conf., Kanazawa, Japan Nov. 12-16**
- **2019: 3rd AAPPS-DPP Conf., Hefei, China, Nov. 4-8
: APPC-14 (Sarawak, Malaysia), Nov. 17-22**
- **2020: 4th AAPPS-DPP, Jeju, Korea, Oct. 26-30**
- **2021: 5th AAPPS-DPP, Fukuoka, Japan, Sept. 27-Oct.1**
- **2022: 6th AAPPS-DPP, India?, APPC-15 (Korea?)**