



## Call for 2024 AAPPS-DPP Plasma Innovation Prize

January 29, 2024, AAPPS-DPP Board of Directors

Any DPP members (excluding chair, chair-elect, CEO and members of the selection committee) may submit one nomination or a seconding letter for this prize in any given year. A nomination should include a letter evaluating the nominee's qualifications in the light of the features of the prize and identifying the specific work to be recognized.

Use attached "Nomination Form" for the nomination, strictly following the template provided:

**Section 1: Nomination and Undertaking by Nominee:** Fill in all requested details in section 1 in "Nomination Form". Nominator's nomination letter and seconding letters (<3 pages) should be in attachment.

**Section 2: Biographical details of nominee:** Fill in all requested details in section 2 in "Nomination Form". No separate CV is needed.

**Section 3: Plasma Innovation by the Nominee:** Fill in all requested details in section 3 in "Nomination Form". Copies of three to five best publication and patents of nominee should be in attachment.

**Section 4: Full list of (a) innovation indicators and (b) publications:** Information about Innovation Indicators such Spin-off companies, License Agreements (LAs), Patent Granted, Patents Filed and Technological Disclosures (TDs) etc. Full list of publications (include only journal papers, books, book chapters and patents) with (a) WOS and Google Scholar citations, and (b) Impact factor of the journal. This needs to be prepared and provided in the format requested in "Nomination Form".

**Attachments:** Nominator's nomination letter (<3pages), Seconding letters from two leading experts in the field of less than 3 pages each, copies of the three to five most important papers and/or patents with explanation of innovation. Seconding letters are not limited from DPP member.

**Note: Winner(s) shall submit the review paper to RMPP in about 8 months after the AAPPS-DPP- annual conference.**

The nomination is effective for two years but submission of updated package is welcomed in the second year. DPP shall not give the prize more than once to the same recipient. The names of members of the Prize Selection committee will be posted on the DPP homepage only after its decision. **A maximum of two recipients** will be selected each year. If no suitable candidate is found by the selection committee, then the PIP award for that year will not be given to maintain the high standard of the prize. The award ceremony will be held in AAPPS-DPP annual conference.

The nomination package shall be sent to the DPP CEO ([aapps.dpp.ceo@gmail.com](mailto:aapps.dpp.ceo@gmail.com)) electronically using attached word template and make it to pdf. The deadline for 2024 AAPPS-DPP Plasma Innovation Prize nomination is April 30, 2024 in Japan time.

DPP calls for sponsorship for 2024 AAPPS-DPP Plasma Innovation Prize.

Past laureates:

2019: Roderick W. Boswell

2020: Masaru Hori

2021: Anthony Murphy

2022: No winner

2023: Takayuki Watanabe



## Prospectus: AAPPS-DPP Plasma Innovation Prize

### 1. Foundation of AAPPS-DPP Plasma Innovation Prize

The Board of Directors of Division of Plasma Physics after consultation to the I-HAC (International Honorary Advisory Committee) decided to establish AAPPS-DPP Plasma Innovation Prize to recognize the seminal/pioneering/innovative work in the field of plasma applications in 2018.

### 2. Description of AAPPS-DPP Plasma Innovation Prize

AAPPS-DPP Plasma Innovation Prize is awarded by the Division of Plasma Physics of the AAPPS to recognize outstanding innovation(s) in experimental and/or theoretical research and development in all fields of plasma applications, with focus on impacts on industry.

**i) Rule:** This Prize will be given to an AAPPS-DPP member who has made seminal / pioneering/innovative contributions to any field of plasma science, technology and applications as stated above. Please note it can just be a single innovation in plasma application that has enormous societal/industrial impact.

**ii) Nomination:** Necessary documents and time schedule for nomination will be announced on the DPP home page. DPP seeks outstanding nominations worldwide and especially from the Asia-Pacific region.

**iii) Selection:** Selection will be made by AAPPS-DPP Plasma Innovation Prize Selection Committee annually.

**iv) Selection Committee:** DPP chair, Chair-Elect and CEO will appoint selection committee Chair and members.

**v) Award Ceremony:** Certificate, Medal and cash award will be bestowed to the awardees at the AAPPS-DPP conference held every year.

**vi) Obligations:** Plasma Innovation Prize awardee(s) should deliver invited/plenary talks in AAPPS-DPP annual conference as well as contribute a review paper to the DPP journal (Reviews of Modern Plasma Physics, <https://link.springer.com/journal/41614>).

### 3. Call for Sponsorship and Contribution

The Division of Plasma Physics (DPP) seeks official sponsorship by any organizations and personal contributions in support of the 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 \$3,000. You may visit AAPPS-DPP HP at <http://aappsdp.org/AAPPSDPPF/index.html>.



**2024 Nomination form for the Plasma Innovation Form of AAPPS-DPP**

**Note:** Please carefully prepare all parts of the nomination form, including Section 1-4. After completing and signing the form, please make the pdf of the file and submit the pdf files only. Please arrange Section 2-4 starting from new pages.

**Section 1: Nomination and Undertaking by Nominee**

The Nominee

Name	
Affiliation	
AAPPS-DPP Membership ID	

The Nominator\*

Name	
Affiliation	
AAPPS-DPP Membership ID	

\* Nomination letter should be limited to maximum of three pages.

Seconding persons\*

Name #1	
Affiliation	
Name #2	
Affiliation	

\*Not limited to AAPPS-DPP members but must be from well-known experts in the field. Each seconding letter should be limited to maximum of three pages, signed and on the letterhead of the expert seconding the nomination.

Proposed citation for the award\* (less than 50 words):

Signature of Nominator:

Date:

**Undertaking by Nominee**

I, \_\_\_\_\_, hereby agree that if selected for the *Plasma Innovation Prize*, I will participate and present an invited talk at the AAPPS-DPP2024 annual conference. Furthermore, I agree to write a review article for the *Reviews of Modern Plasma Physics* and submit it within a period of eight months after the conference (i.e. 10 July, 2025) with following title.

Title of RMPP paper (tentative):

Date:

Signature of Nominee

For Office use

Date of Receipt:

Whether considered earlier: Yes/No

If Yes, years of consideration:

## Section 2: Biographical Details of the Nominee

#	Item	Description	
1	<b>Full name:</b>		
2	<b>Title/current position:</b>		
3	<b>Affiliation:</b>		
4	<b>Email ID:</b>		
5	<b>Date and place of birth:</b>		
6	<b>Nationality:</b>	<b>Present:</b>	<b>Past (if any):</b>
7	<b>Education:</b> PhD Master Bachelor	<b>Year</b>	<b>Degree</b>
8	<b>Career history</b> (in reverse chronological order)	<i>e.g. *</i> 1. Professor, University of XYZ, PQR (Present – 2008) 2. Associate Professor, University of XYZ, PQR (2008 – 2002) 3. Associate Professor, University of XYZ, PQR (2002 – 1996)	
9	<b>Link to Nominee's</b>	Copy links below:	
	Google Scholar or Web of Science or Scopus Page		
	Personal or Institutional web page (if any)		
10	<b>Publication Summary of the Nominee</b> (Provide total numbers only, details later)	<b>Journal Paper (only refereed papers)</b>	
		<b>Conference Proceeding Papers</b>	
		<b>Books (including edited one)</b>	
		<b>Book Chapters</b>	
11	<b>Citation Summary of the Nominee</b> (any one or all listed on the right)	<b>Technical Reports</b>	
		<b>WoS Citation Count:</b>	
		<b>WoS H-index:</b>	
		<b>Google Scholar Citations:</b>	
12	<b>Innovation Indicators:</b> - Spin-offs (companies) - Licence Agreements - Technology Disclosures - Patents Granted - Patents Filed - Any other innovation indicator	<b>Google Scholar H-index:</b>	
		<b>Scopus Citation Count:</b>	
		<b>Scopus H-index:</b>	
		<b>Innovation Indicator</b>	<b>Provide numbers only (details later)</b>
		<i>Spin-Off Company</i>	1
		<i>Licence Agreements</i>	1
<i>Patents Granted</i>	3		
<i>Patents Filed</i>	4		
<i>Technological Disclosures</i>	7		
13	<b>Research Service:</b> List Editorships and Editorial Board Memberships	<i>e.g. *</i> 1. Editor or Guest Editor of XYZ 2. Associate Editor of XYZ 3. Editorial Board Member of XYZ	
14	<b>Link to coverage in media on Nominee's Research /Innovation:</b>		
15	<b>Research Grants:</b>	# of External/Industrial grants:	Total grant amount in USD:
		# of internal grants:	Total grant amount in USD:
16	<b>Conference Presentations:</b>	# of Plenary/Keynote Talks:	# of Invited Talks:
17	<b>Contributions to Professional bodies</b> (Associations, Societies and Conference Organization only):	<i>e.g. *</i> 1. President of XYZ Association of Physics (2012-2020) 2. Council member of XYZ, (Present-2020) 3. Conference Chair, IPPSA, Sydney, 6-10 Nov 2021	
3	List of past scientific or academic research/technology awards/prizes/recognitions of the nominee	<i>e.g. *</i> 1. XYZ Award (2021). 2. Awarded XYZ Fellowship (2012-2020) 3. XYX Research Excellence Award (2016) 4. Listed in top 2% of XYZ University List (2016, 2021, 2023) 5. Best paper Award for ... in XYZ conference (2022)	

\*Please replace light grey text by relevant information.



**Section 3: Plasma Innovation by the Nominee**

1	<p><b>Critical summary of the outstanding technological, industrial or societal applications of nominee’s innovation(s) in plasma physics (&lt;200 words).</b></p>
2	<p><b>Answer following key questions for the committee’s evaluation. For more than one innovation, please limit description of each innovation to less than 200 words for each of the following questions.</b></p> <p>[1] What is/are the “Innovation(s)/break-through(s)” made by the nominee?</p> <p>[2] What were key technological/scientific issues for [1] and how nominee resolved these challenges?</p> <p>[3] What were the proven technological, industrial or societal applications of nominee’s plasma innovation(s) and its possible future impacts for the society?</p>
3	<p><b>Explanation of key publication (paper) and patents (Maximum five, each &lt;200 words )</b> Clearly identify the role played by the nominee, particularly if the large number of co-inventors or co-authors are involved.</p> <p>[1]</p> <p>[2]</p> <p>[3]</p> <p>[4]</p> <p>[5]</p>

*\*Please replace light grey text by relevant information.*



**Section 4: Full list of (a) innovation indicators and (b) publications, in Reverse chronological order**

**(a) Innovation Indicators**

- (i) Format of Entry for Spin-offs and License Agreements: Free format, follow the instructions provided.
- (ii) **Format of entry for Patents and TDs** - Type of Innovation indicator, Inventors, Invention title, Number, Year, County.
- (iii) For each entry, **all co-inventors should be listed**. We will use it to check COI with Selection Committee members.
- (iv) **Nominee’s name should be in bold**.
- (v) Highlight the cell with **light yellow colour** if the TD/patent/Spin-offs/LA is cited in Section 3.

#	Provide details of Technological disclosure (TD), Patents Filed, Patents Granted, Licence Granted, Spin-off Companies or any other innovation indicator
1	<b>Spin-off Company (if any):</b> Provide information about the name of the company, nominee’s position in the company, how many staff, the market value of the company, <i>how the company is a spin-off from the innovation/product developed by the nominee in field of plasma science and technology</i> . Provide link to the company’s website. Free format. Add more rows just below this if Nominee has more than one spin-off from her/his innovation.
2	<b>License Agreements (if any):</b> Provide the information about the licence agreement that has been made with other commercial company or industry for the innovation/discovery or the plasma technology based product developed by the nominee.
3	TD: A B First, C D Second, <b>E Third</b> , and F G Fourth, A pulse-plasma method for ultra-thick thermal barrier coatings, 2017-2436578, (2017), Singapore
4	Patent Filed: A B Harry, <b>E Third</b> , C D Second and F G Fourth, Slow-focus-mode operation of pulse pinch device for nanofabrication, 2048-17-25678 (2020), US Patent
5	Patent Granted: A B Harry and <b>E Third</b> , Plasma based anti-fogging coating, 2083-18-56678 (2023), China Patent
6	Patent Granted: <b>E Third</b> , C D Second and F G Fourth, Plasma pre-processing of polycarbonate for anti-fingerprinting coating, 2048-19-88999 (2022), Singapore Patent
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*Note: Extend or delete the number of rows, as needed. Replace the grey sample text with actual information of the nominee.*

**(b) Full Publication List**

- (i) **Format of entry:** Authors, Paper/Book/Book Chapters title, Journal/Publisher name, volume, pages, and year. Refer sample.
- (ii) For each entry, **all co-authors should be listed**. We will use it to check COI with Selection Committee members.
- (iii) **Nominee’s name should be in bold. Put # mark** if the nominee is the corresponding author or the co-first author.
- (iv) **For important papers** (including those which are referenced/cited in Section 2, item 2) please mention the impact factor (IF) at the end of the paper. If possible, please provide the DOI also for these important works.
- (v) Highlight the cell with **light yellow colour** if the paper/patent/book/book chapter is cited in Section 2, item 2.

#	Paper (authors, paper title, journal volume, year, page) / Book or Book Chapters (authors, book title, publisher, year) with candidate name in bold	WoS cites	Google cites
1	A B First, C D Second, <b>E Third</b> #, and F G Fourth, Journal of Plasma Science 47, 347-356 (2023). IF – 5.2, DOI: https://...	27	36
2	A B Harry, <b>E Third</b> , C D Second and F G Fourth, Journal of Astro Plasma 37, 3337 (2021).	32	47
3	E F Peter, G H Worry, F G Fourth, and <b>E Third</b> #, Advanced Plasma Science 21, 347-356 (2021).		4
4	<b>E Third</b> and F G Fourth, Advances in Plasma Diagnostics, ABC Publishers (2020).	3	4
5	<b>E Third</b> , E F Peter, C D Second, and F G Fourth, Journal of Plasma Nuclear Technology 12, 347-356 (2023). IF – 3.7, DOI: https://...	62	78
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*Note: Extend or delete the number of rows, as needed, to present the full list of publications. Replace the grey sample text with actual information of the nominee.*

AAPPS-DPP



**Attachments:**

1. Nominator's nomination letter of less than 3 pages.
2. Seconding letters from two leading experts in the field of less than 3 pages each.  
The experts need not be AAPPS-DPP members.
3. Copies of the 3-5 important papers/patents of the nominee as listed above.

The completed form with the above attachments should be submitted by email to the DPP CEO at ([aapps.dpp.ceo@gmail.com](mailto:aapps.dpp.ceo@gmail.com)) **in one pdf file** before the deadline stipulated in the announcement.