



**Press Release**

**For Immediate Release**

**SPACE Canada announces the Results of the First Annual International Space Solar Power Student Competition**

(Toronto, CANADA, October 1, 2017) SPACE Canada, working with the National Space Society (NSS), working with the International Astronautical Federation (IAF) Power Committee, the Global Space Solar Power Working Group (GSSP-WG) of the International Academy of Astronautics (IAA) Commission III, and the Space Generation Advisory Council (SGAC), have organized a new annual faculty-advised, student-conducted international research and engineering research/paper competition on the topic of Space Solar Power.

"Space solar power is the concept of harvesting solar energy in space, 24-7 and delivering it safely and economically via wireless power transmission to markets on Earth. This exciting new student competition will encourage the involvement of young engineers and scientists in this important field of energy and space research," said John C. Mankins, NSS Director and coordinator of the international SSP student Competition.

The purpose of this new annual competition is to engender new, meaningful and credible student research projects in the broad field of Space Solar Power, and to support the presentation of the best of the various projects by students in an international forum. "The projects proposed and the breadth of students participating is tremendously gratifying," said George Dietrich, President of SPACE Canada and sponsor of the competition.

During 2017, the first year of this new competition, 16 projects were proposed from 5 different countries (including China, the US, Japan, the Netherlands, and India) and involving some 14 academic institutions, 8 faculty advisors and 49 graduate and undergraduate students. From the submitted proposals, 7 were selected as semi-finalists and were invited to present (with support from SPACE Canada) at the NSS International Space Development Conference® held May 25-29 2017 in St. Louis, Missouri USA during the ISDC® Space Solar Power Track.

The semi-finalist teams include students from the following institutions: Dalian University of Technology (China), Delft University of Technology (The Netherlands), Harbin Institute of Technology (China), Hosei University (Japan), Indiana University (USA), Kitawato University (Japan), Purdue University / Indianapolis (USA), Shizuoka University (Japan), The Graduate University of Advanced Studies (Japan), Tokai University (Japan), Tokyo University of Science (Japan), and the Allied Universities Team (USA) comprising the University of Maryland (Baltimore County and College Park Campuses), the Hampton University, Princeton University, the University of Colorado / Boulder, and Hampton University. Following a series of semi-finalist presentations, three teams were invited (with travel support) to present technical papers summarizing their research at the Space Power Symposium at the 68th International Astronautical Congress (IAC 2017) during 25-29 September in Adelaide, Australia: the Dalian

University of Technology (China), the Harbin Institute of Technology (China) and the Allied Universities Team (USA).

At the IAC 2017 Power Symposium Session C3.1 in Adelaide, Australia, the three finalist teams made their presentations with the following results: **the winning team was the Harbin Institute of Technology, presenting “Flexible Adjustment Model for SPS-ALPHA: Optical Solution”**; the runners-up were (1) the Allied Universities Team, presenting “Impact of Emerging PV Technologies on a Solar Power System”; and (2) Dalian University of Technology, presenting “Orbital Station Keeping Control for SPS-ALPHA via Electric Propulsion and Solar Pressure”.

**SPACE Canada and the cooperating organizations congratulate all of the teams (Semi-Finalist and Finalist) on their outstanding research projects in this, the first year of the International SSP Student Competition.**

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**About SPACE Canada:** SPACE Canada is a non-profit, non-governmental organization based in Canada; the purpose of which is promotion of international dialogue on, and understanding of the topic of Space Solar Power. To learn more, visit <http://www.spacecanada.org>.

**About the National Space Society (NSS):** NSS is an independent nonprofit educational membership organization dedicated to the creation of a spacefaring civilization. NSS is widely acknowledged as the preeminent citizen's voice on space, with over 50 chapters in the United States and around the world. The Society publishes Ad Astra magazine, an award-winning periodical chronicling the most important developments in space. To learn more, visit <http://www.nss.org>.

**About the International Astronautical Federation (IAF) Power Committee:** The Power Committee of the IAF, a non-profit organization based in Paris, France organizes a symposium on space power at the annual International Astronautical Congress. To learn more, visit <http://www.iafastro.org>.

**About the International Academy of Astronautics (IAA):** the IAA, a non-profit organization based in Paris, France is the world's leading international honors society in the field of astronautics. Commission III of the IAA focuses on space systems and technology development, and chartered the Global Space Solar Power Working Group. For more information, visit <http://www.iaa.org>.

**About the International Astronautical Federation (IAF) Space Generation Advisory Committee (SGAC):** The SGAC of the IAF, a non-profit organization based in Paris, France organizes a annual events promoting young professionals in the aerospace community at the annual International Astronautical Congress. To learn more, visit <http://www.iafastro.org>.

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