

# New York Declaration

Brooklyn, New York, July 22, 2010

## 2<sup>nd</sup> International Symposium on Solar Sailing ISSS 2010



The international experts, who gathered at the 2<sup>nd</sup> ISSS, unanimously agree that Solar Sail technology has significantly advanced in its Technology Readiness since the first symposium held in Ammersee, Germany (2007).

It has been confirmed by flight testing in deep space that Solar Sail technology is viable for space flight operations.

Many important applications of solar sails have been identified as useful to the international science community. It is vital that this user community be engaged as soon as possible so that they may better understand the capabilities offered by solar sail technology and to thereby obtain their advocacy.

The main statements and recommendations of the Ammersee Resolution of 2007 are still valid and are confirmed by the experts.

### Major Achievements

The world's first solar sail, Japan's ~200m<sup>2</sup> *IKAROS*, built by a team of ISAS/JAXA Space Exploration Center (JSPEC), was injected into interplanetary space and successfully deployed and demonstrated solar propulsion in the summer of 2010.



|                    |            |   |
|--------------------|------------|---|
| Ellinghaus         | Frank      | private inventor  |
| Farres             | Ariadna    | University of Barcelona   |
| Frayman            | Morris     | Klesov Systems Science  |
| Friedman           | Louis      | The Planetary Society   |
| Funase             | Ryu        | Japan Aerospace Exploration Agency (JAXA)                         |
| Galea              | Pat        | Project Icarus  |
| Geppert            | Ulrich     | DLR Inst. for Space Systems                                       |
| Greschik           | Gyula      | TentGuild Engineering Co.   |
| Johnson            | Les        | NASA George C. Marshall Space Flight Center                       |
| Kawaguchi          | Junichiro  | JAXA Exploration Center   |
| Kezerashvili       | Roman      | New York City College of Technology, CUNY                         |
| Koblik             | Viacheslav | Umea University   |
| Lappas             | Vaios      | Surrey Space Centre, University of Surrey                         |
| Lazzara            | Matthew    | University of Wisconsin-Madison                                   |
| Leipold            | Manfred    | Kayser-Threde Munich  |
| Liu                | Xiaoze     | Queens College  |
| Macdonald          | Malcolm    | University of Strathclyde   |
| Matloff            | Gregory    | New York City College of Technology, CUNY                         |
| Mimasu             | Yuya       | Department of Aeronautics and Astrodynamics,<br>Kyushu University |
| Mori               | Osamu      | Japan Aerospace Exploration Agency                                |
| Mulligan           | Patricia   | NOAA/NESDIS/OSD   |
| Nehrenz            | Matt       | Stellar Exploration   |
| Prado              | Jean-Yves  | CNES  |
| Romagnoli          | Daniele    | German Aerospace Center - Institute of Space<br>Systems           |
| Sawada             | Hiroataka  | Japan Aerospace Exploration Agency                                |
| Scholz             | Christina  | FH Aachen University of Applied Sciences                          |
| Shirasawa          | Yoji       | University of Tokyo   |
| Van Sant           | Tim        | NASA/Goddard Space Flight Cente                                   |
| Vazquez-<br>Poritz | Justin     | New York City College of Technology, CUNY                         |
| Wawrzyniak         | Geoffrey   | Purdue University   |
| Wie                | Bong       | Iowa State University   |
| Wilkie             | William    | NASA Langley Research Center                                      |
| Young              | Roy        | Marshall Space Flight Center                                      |
| Zhao               | Yuhui      | Nanjing University  |