MORNING PROGRAM
SESSION 1 | CHALLENGES FOR THE FUTURE

9H30

DR. Stephen TAYLOR - ESA
Photovoltaic technology for space applications to cope with the needs of the present and the future

10H00

DR. Loris IBARRART - CNES
Solar cell models and measurements: an overview

10H30 - 10H45  BREAK

10H45

DR. Romain CARIOU - CEA
Towards a robust Si PV technology for space

11H15

DR. Carmine PELLEGRINO - Fraunhofer ISE
Strategies for cost reduction in III-V space solar cells

11H45

DR. César DOMINGUEZ - UPM
Micro-concentrators as mission enablers for deep space missions

12H15

DR. Francesco SOTTILE - LSI
Theoretical approaches for photovoltaics

12H45 - 14H00  LUNCH

with the support of:
# AFTERNOON PROGRAM

**SESSION 2 | RADIATION EFFECTS: MICROSCOPIC**

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<tr>
<th>Time</th>
<th>Speaker &amp; Affiliation</th>
<th>Topic</th>
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<td>14H00</td>
<td>DR. Antonino ALESSI - LSI</td>
<td>Electron irradiation</td>
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<tr>
<td>14H20</td>
<td>DR. Gaëlle GUTIERREZ - JANNuS-Saclay</td>
<td>Overview of JANNuS irradiation facility</td>
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<tr>
<td>14H30</td>
<td>DR. Yana GURIMSKAYA - Solestial</td>
<td>Investigation of Radiation Damage in p-Type Silicon Induced by 1 MeV Electron Irradiation</td>
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<td>15H00 - 15H30</td>
<td><strong>Break</strong></td>
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<tr>
<td>15H30</td>
<td>DR. Ahmad RASA KIRMANI - RIT</td>
<td>Radiation damage and healing mechanisms in halide perovskites</td>
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<td>16H00</td>
<td>DR. Sophie DUZELLIER / DR. Thierry NUNS - ONERA</td>
<td>Degradation of PhotoVoltaic Assembly in the space environment</td>
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<td>16H30</td>
<td>Océane GUILLOT - CEA</td>
<td>Si Heterojunction radiation hardness</td>
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<td>17H00</td>
<td>DR. Valentin D. MIHAILETCHI - ISC</td>
<td>Silicon Solar Cell Technologies for Space Applications: Degradation and Regeneration Effects</td>
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<td>17H30 (19H15)</td>
<td><strong>Poster session</strong></td>
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<td>17H30</td>
<td>Lab guided tour - Solar cell set-ups (3 groups)</td>
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**19H30 - 23H00 GALA DINNER**

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MORNING PROGRAM
SESSION 3 | RADIATION EFFECTS: MACROSCOPIC

09H30  DR. Tatsuya TAKAMOTO - SHARP
Introduction of Sharp Space solar cell products

10H30  DR. Carla COSTA - CNES
Perovskites robustness against space radiations

11H00 - 11H15  BREAK

11H15  DR. Victor KHORENKO - AZUR SPACE
Production of radiation hard III-V solar cells

11H45  Soufian YJJOU - TRAD
Solar cell radiation-induced degradation simulation tool for space applications

12H15  DR. Carlos ALGORA - UPM
Status of III-V flexible solar cells at the Solar Energy Institute of UPM

12H45 - 14H00  LUNCH
**SESSION 4 | NEW EMERGING MATERIALS AND ARCHITECTURE**

**14H00**

**PR. Gavin CONIBEER - UNSW / Extraterrestrial**

The revival of Silicon solar cells for space applications

**14H30**

**DR. Maxime DARNON - LaHC**

Micro fabrication of III-V-based solar cells for weight reduction and performance improvement

**15H00 - 15H30**  **BREAK**

**15H30**

**DR. Stéphane COLLIN - CNRS / IPVF**

Light trapping for ultrathin III-V & Si solar cells

**16H00**

**DR. Pilar ESPINET GONZALEZ - The Aerospace Corporation**

Solar Array Shielding: The Ultra-Light Approach

**16H30 - 17H30**  **Round table**

"Trends & challenges for next generation robust space photovoltaic solutions" & Final remarks

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**PARIS-FRANCE**

05/07/2024

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