

2022 MELISSA CONFERENCE

CALL FOR ABSTRACTS

8-9-10 NOVEMBER, 2022

Toulouse, France

HYBRID EVENT – Possibility of virtual access



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1. INTRODUCTION

The 2022 edition of the MELISSA Conference is the European platform dedicated to closed-life support systems. It is the place to share and exchange thoughts on fundamental and applied research for Space and Earth applications. All the respective communities: air, water, waste recycling, food production and preparation, modeling, control, safety, circular systems, education and societal impact, ... are represented.

The Conference will highlight and foster the collaboration between researchers, engineers, experts, private and public organizations.

The official language of the Conference is **English**.

2. CALL FOR ABSTRACTS

Technical papers and posters addressing the topics of the Conference are welcome.

The abstract must be in *English language* with a **maximum length of 500** (without blanks) words and **shall be:**

1. Order of presented information:
 1. **First name, last name, phone numbers, e-mail address and company of the authors**
 2. **Title**
 3. **Presenting author**
 4. **Other authors**
 5. **Primary affiliation**
 6. **Abstract text** (maximum 500 words)
 7. **Keywords (3)**
 8. **Preferred presentation option** (oral presentation or poster)

The selected abstracts (oral presentation and poster) must be presented on-site in Toulouse (except for Japanese and Russian).

We therefore strongly encourage you to consider traveling to Toulouse to present your abstract.

Link to submit your abstract: <https://www.melissafoundation.org/conference/abstract/1>



2.1. TOPICS

These main topics will be discussed:

1. Air recycling and CO₂ valorization
2. Grey, yellow, black water recycling
3. Waste recycling
4. Biomaterial
5. Food production and preparation
6. Proteins production
7. Microbial safety
8. Process modeling, simulation and control
9. Life support architecture for future missions
10. Space experiment
11. Circular economy
12. Societal impacts and education



3. SELECTION PROCESS

Abstracts submission deadline is 31st of July 2022.

The abstracts will be evaluated by the Scientific Committee, and will be either:

1. Approved for oral presentation: the paper will be presented (by means of a Power Point within a slot of about 15/20 minutes) during the Conference. Later-on the presentation (PDF) will be uploaded, with authors agreement, on the MELISSA Foundation website.
2. Approved for poster presentation: the posters (to be provided by the author) will be exposed and will be visible during the whole duration of the Conference. Poster dimension must be: coming soon.
3. Rejected.

The outcome of the selection process will be communicated to the authors by e-mail at the latest on **August 22nd 2022.**

Final steps

The final Conference program will be issued on **September 15th 2022.** Authors whom abstracts have been approved must send their presentation (PDF) and/or poster (PDF) at the latest on **October 30th.**

Additional Information

For more information, please contact: contact@melissaconference.org



4. ORGANIZING COMMITTEE

Audrey BERTHIER – MEDES, France

Chloe AUDAS – ESA, The Netherlands

Sandra ORTEGA ULGADE – ESA, The Netherlands

Isabelle DAMOISAUX – IDDUP, Belgium

Wiam BELLAFQIH – IDDUP, Belgium

Samantha MACHI – IDDUP, Belgium

Bryan Pinchart – IDDUP, Belgium

Caroline Falleau – IDDUP, Belgium

Chritian Mustin – CNES, France

Lucie POULET – UCA, France

Aude De CLERCQ – ESA, The Netherlands

Didier SCHMITT – ESA, The Netherlands

Giorgio MAGISTRATI – ESA, The Netherlands

Christophe LASSEUR – ESA, The Netherlands

5. SCIENTIFIC COMMITTEE

- Ann-Iren Kittang Jost - CIRIS, Norway
- Max Mergeay - MELiSSA Foundation, Belgium
- Heleen De Weever - VITO, Belgium
- Natalie Leys - SCK/CEN, Belgium
- Ruddy Wattiez - University Mons, Belgium
- Philippe Fiani - SHERPA Engineering, France
- Suren Erkman - Université de Lausanne, Switzerland
- Mike Dixon - Guelph University, Canada
- Claude Gilles Dussap - Université Clermont Auvergne, France
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- Giovanna Aronne - UNINA, Italy
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- Sebastien barde – CNES, France
- Pierre Boutte – CNES, France
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- Cyprien Verseux – ZARM, Germany
- Lizy-Destrez – SUPAERO, France



- Sebastien Vincent – ESA, The Netherlands
- François Cluzel – CENTRAL SUPÉLEC, France