

# Partnership proposal with the **MELiSSA Project**

## CURRENT AND **FUTURE WAYS** TO CLOSED LIFE SUPPORT SYSTEMS

**MELiSSA  
CONFERENCE  
2022**

8-10  
NOVEMBER  
TOULOUSE  
(FRANCE)



**HYBRID CONFERENCE: IN-PERSON & VIRTUAL EVENT**

Organized by



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# About the European project of circular life support systems

For almost 35 years, the **European Space Agency** (ESA) has been active in the field of regenerative life-support systems, through the MELiSSA (Micro-Ecological Life Support System Alternative) Project, the European circular life-support system project.

In space, astronaut survival requires **very large quantities of oxygen, water and food**, which are too expensive and cumbersome to transport. For future long-duration manned missions, especially to the Moon and Mars (and all the stages between Earth and Mars), it is currently unfeasible to rely solely on resupply from Earth.

The MELiSSA Project, initiated in 1987 after a preliminary flight onboard the Chinese “Long March” rocket, therefore studies the recycling all the waste from a space mission to meet the vital needs of astronauts. The challenge is to develop an artificial ecosystem (which supports astronauts on board during long space journeys) that can reproduce the main functions of the Earth, in a reduced mass and volume, but with extreme safety.

Transforming all waste, managing chemical and microbiological contaminants, using sunlight as a source of energy, and of course supplying oxygen, water and food to the astronauts during long space missions, are the challenges being studied by ESA and its partners.

Today, the MELiSSA Project is often cited as the **most successful example of circular economy**, resulting in numerous technology transfers from space to Earth (environment, agri-food, life sciences). Examples include the recycling of grey water on the Concordia Station in Antarctica or on the famous Roland Garros tennis tournament. We can also mention the anti-cholesterol patent and the creation of ezCOL, a spin-off from the MELiSSA program.



About **50 organizations** (companies, universities, research centers, space industries, etc.) are involved in the project. **15 partners** have signed a memorandum of understanding.

Today, the MELiSSA partners come from Belgium, Spain, France, Switzerland, Italy, the Netherlands and Canada.



# About the MELiSSA Foundation

**« MELiSSA is internationally recognized as the most advanced effort to develop closed loop life support systems. »**

The MELiSSA Foundation is a non-profit organization created in 2014 by the MELiSSA Consortium. The Foundation manages a fund dedicated to the support of MELiSSA PhD and post-doctoral students. Their research is focused on closed-loop life support technology, with the aim of enabling long-duration space missions, notably to the Moon and Mars.

The MELiSSA Foundation also hosts all communication and education aspects of the MELiSSA Project.

The Foundation's Board of Directors is composed of Dr Bérangère Farges (Program Director), Professor Dr Max Mergeay (Scientific Director) and Rob Sutera LLM (Managing Director). The committee evaluating the doctoral applications is composed of representatives of the MELiSSA Community, ESA and independent scientists.

The MELiSSA Foundation also provides support services connected to MELiSSA communication, MELiSSA conferences and outreach activities. The Foundation furthermore plays an increasing role in the field of promoting terrestrial MELiSSA activities and acts as a contact point with industrial partners.



# About the European Space Agency (ESA)

The European Space Agency (ESA) is **Europe's gateway to space**. Its mission is to shape the development of Europe's space capability and ensure that investment in space continues to deliver benefits to the citizens of Europe and the world.

Exploring the Universe and sending satellites and humans into space in a secure and sustainable environment for all, are among the major challenges for developed nations in the 21st century.

This is why over 20 European countries have been pooling resources for over **50 years**, putting Europe at the forefront of space science, technology and applications. Today, Europe's citizens enjoy the benefits, from jobs and economic growth, to public services, efficient communications, and security.

ESA's wealth of experience and track record of success, in elaborating and implementing space programs for more than 50 years, have allowed it to continuously improve and adapt to its changing environment. In order to ensure the full integration of space into European society and economy, ESA regularly shares its experience with other European entities.





**The MELiSSA Conference** is a major **international event** in the field of space research!

Discovering **innovative and unique projects** contributing to the **circular economy**, this is the promise made to you by the organizing committee of this conference which will take place on **8-9-10 November 2022!**

Come meet the different actors of the MELiSSA Project. **Dive into the world of space.**

Take advantage of this incredible **opportunity to interact with famous key speakers and researchers.**



# About the MELiSSA Conference

In collaboration with ESA and CNES (National Center for Space Studies, France), the MELiSSA Foundation is organizing the **7th international Conference** dedicated to « Closed Life Support Systems ».

It will be a unique opportunity to listen to **international experts** from the worlds of academia and industry.

The 2022 edition of the MELiSSA Conference zooms in on closed life support systems. It is the place to share and exchange about fundamental and applied research for Space and Earth applications (e.g. circular economy). All the respective domains: air, water, waste recycling, food production and preparation, modelling, 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.

**Hybrid conference:  
in-person & virtual  
event!**

The 2022 MELiSSA Conference offers you the best of both worlds!

Our conference combines a **live in-person event** in Toulouse and a **virtual one online**.

Either way, live a unique experience and meet inspiring people from the space sector and beyond.



## EVENT HIGHLIGHT

**EVENT NAME** MELiSSA Conference 2022 - Current and future ways to Closed Life Support Systems

**EVENT DATE** November 8-9-10, 2022

**VENUE** **Espaces Vanel**  
1 All. Jacques Chaban-Delmas,  
31500 Toulouse, France

ENTRANCE PRICE	Students	Universities, research centers & start-ups	Companies
	Early-bird	150,00 €	400,00 €
Normal price	190,00 €	600,00 €	700,00 €

**Deadline for early-bird registrations : July 31, 2022**

**EVENT PURPOSE** The MELiSSA Conference is a 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.

### TOPICS

CIRCULAR ECONOMY

WATER RECYCLING

3D MATERIAL

FOOD PRODUCTION AND PREPARATION

CONTAMINATION CONTROL

LIFE SUPPORT SYSTEM

SYSTEM ENGINEERING

EDUCATION

SOCIETAL IMPACT

MODELING & CONTROL

### MEDIA PROMOTION

1. Print Media (*flyer, brochure, poster*)
2. Website & mobile advertising
3. Search engine optimizing
4. Social media advertising



# Partnership

The MELiSSA community is growing! With a total of about 250 participants, from public and private sectors, from all around the world in the last edition, this conference attracts more and more people every year.

The MELiSSA Conference is the recognized event to reach experts in the space and science research, as well as companies active in the same field, or even people interested or passionate about everything related to space.

Besides companies working in the space sector, companies in the industrial sector are welcome.

Indeed, the MELiSSA Conference has become a place for organizations to share and discuss advances in research, and an opportunity to integrate space technologies for an ever more sustainable development of their activities. This is a unique opportunity to meet a community of **international experts** who all aim to respond to the human and environmental challenges of our planet through research, and in particular, space-related research.

If the MELiSSA Conference exists, it is also thanks to all the sponsors and partnerships that have been built up **over the past 35 years!**



## PREVIOUS SPONSORS



We offer YOU the opportunity to join a truly **UNIQUE on-site and digital network**, and become an official MELiSSA sponsor.

Joining the event will ensure you **maximum visibility**, not only in France but all over the world!

Indeed, the MELiSSA Conference receives **worldwide recognition**, and is still growing.

The event is featured on Facebook, Instagram, Twitter and LinkedIn, but also on the MELiSSA Foundation newsletters and all its communication media, worldwide.

Organized by **professionals from the event sector**, the MELiSSA Conference is strategically designed to meet the expectations of all those physically or remotely present at the event.

In the context of circular life-support systems, and more generally of circular economy technologies, the MELiSSA Conference is a must. It is, therefore, a unique opportunity to **promote your company or organization!**

## ORGANIZERS



# Sponsorship packages

2 maximum

**GALA**

15.000,00 €

**Presentation of your company** during the Gala: 5 minutes

✓

Awarding of **an award**

✓

Your logo **in the signature** of the organisation team

✓

**B to B meetings** in your business area

✓

**Gala pass**

6

**Free accesses** to the Conference

2

**Roll-up** during the event

5

**Presentation of your company** on the first day of the Conference: 5 minutes

✓

Insertion of **1 company's goodie & flyer** in the pack given to all participants

✓

Mention on the **press release** and opportunity to send us a digital file for journalists

✓

Acknowledgment of the sponsors in the **awards session**

✓

Acknowledgment of the sponsors in the **opening and closing sessions**

✓

An article in the **handbook**<sup>1</sup>

2 pages

An article in our **newsletter**

✓

Your logo **on all electronic material** (poster gallery, website, and all social networks pages)

✓

Your logo **on all presentations**

✓

Your logo **in the introductory slide** on every room (digital included)

✓

Your logo **in the program** (digital and printed)

✓

Your logo **in every email**: mailing campaigns, email with global information about the event, closing email, ...

✓

Your company video published on our social networks

✓

<sup>1</sup>You must provide the content

	GOLD 8.000,00 €	SILVER 4.000,00 €	BRONZE 1.500,00 €
<b>Gala pass</b>	4	2	1
<b>Free accesses</b> to the Conference	1	-	-
<b>Roll-up</b> during the event	3	2	1
Insertion of 1 company's goodie & flyer in the pack given to all participants	✓	✓	✓
Acknowledgment of the sponsors in the opening and closing sessions	✓	✓	✓
Your logo :			
<ul style="list-style-type: none"> <li>• <b>on all digital material</b></li> <li>• in the introductory slide on every room</li> <li>• <b>in the program &amp; handbook</b> (digital &amp; printed)</li> </ul>	✓	✓	✓
An article in the handbook <sup>1</sup>	1 page	1/2 page	1/4 page
Your logo <b>in every email</b> : mailing campaigns, email with global information about the event, closing email, ...	✓	✓	-
Presentation of your company on the first day of the Conference: 5 minutes	✓	-	-
Mention on the <b>press release</b> and opportunity to send us a digital file for journalists	✓	-	-
Acknowledgment of the sponsors in the <b>awards session</b>	✓	-	-
An article in our newsletter	✓	-	-
Your company video published on our social networks	✓	-	-

<sup>1</sup>You must provide the content



# Need more information or have a question?

The organizing team is happy to adapt the options to match your expectations. So, for example, we would not rule out the idea of an exclusive partnership for the whole event. You can get in touch with the team by email.

## CONTACT PERSON

Isabelle Damoisiaux-Delnoy

[sponsor@melissaconference.org](mailto:sponsor@melissaconference.org)

+32 474 74 13 31

## MORE INFORMATION

[www.melissaconference.org](http://www.melissaconference.org)

## FOLLOW US

Instagram	:	<a href="https://www.instagram.com/melissaspaceresearchprogram">@melissaspaceresearchprogram</a>
Facebook	:	<a href="https://www.facebook.com/MELISSA4SPACE">@MELISSA4SPACE</a>
Twitter	:	<a href="https://twitter.com/MELISSAProject1">@MELISSAProject1</a>
LinkedIn	:	<a href="https://www.linkedin.com/company/MELISSA-Space-Research-Program">MELISSA Space Research Program</a>
YouTube	:	<a href="https://www.youtube.com/channel/UC...">MELISSA Space Research Program</a>

SUPPORTED BY





# Sponsorship confirmation

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First name:

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Last name:

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Company / Organization:

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Job title:

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Field of business:

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VAT Number:

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Address:

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Postcode and location:

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Mobile:

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Email:

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The partner undertakes to offer financial support to the MELiSSA Foundation to organize the event described hereinabove for a total of ..... EUR excl. VAT.

- GALA PARTNERSHIP: €15,000 € excl. VAT
- GOLD PACK: €8,000 € excl. VAT
- SILVER PACK: €4,000 € excl. VAT
- BRONZE PACK: €1,500 € excl. VAT

The partner confirms that they are familiar with the general terms and conditions on the next page of this contract and accepts them unconditionally.

Signature:

# General terms and conditions

## 1. TERMS AND CONDITIONS

The MELiSSA Foundation is bound by a best efforts obligation and any terms herein shall not constitute an obligation for the MELiSSA Foundation to perform or a guarantee commitment. The MELiSSA Foundation makes no warranty, express or implied, to the sponsor regarding the benefits, financial or other, positive or not, resulting or that may result from the use and display of the sponsorship opportunity. The only guarantee offered by the MELiSSA Foundation is that it will take all reasonable means at its disposal and as described in the sponsorship contract to ensure that all documents, posters, etc. are published in a professional and efficient manner.

Except in the event of gross negligence on its part, the MELiSSA Foundation cannot be held liable to the sponsor for any damage, direct or indirect, that may result. If an error slips into the advertisement for a reason attributable to the MELiSSA Foundation, the latter is entitled to correct the said error without delay, without having to pay any compensation or damages whatsoever to the sponsor.

## 2. INSURANCE

The parties undertake to obtain all the necessary insurance during the course of the event which is the subject of the sponsorship. The MELiSSA Foundation will take all measures to ensure the security of the equipment made available to it, each party will ensure its own equipment and will bear the cost resulting from any damage, theft, etc. In the event of theft, the MELiSSA Foundation cannot be held responsible.

## 3. RATES AND TERMS OF PAYMENT AND FEES

The rates are included in the sponsorship contract.

## 4. PAYMENT TERMS

Invoices must be paid to account number BE05 3631 8280 9775 of the MELiSSA Foundation on the date indicated on the invoice.

In the event of non-payment on the due date, the amounts due will bear an annual interest of 10%. The advertiser will also be liable for a penalty clause equivalent to 15% of the amount of unpaid invoices when due. The MELiSSA Foundation reserves the right to suspend the performance of its services in the event of non-payment of invoices, in principle, interest or penalty clause.

## 5. DURATION AND END OF THE CONTRACT

This agreement begins on the date of its signature and ends automatically at the end of the event that is the subject of the sponsorship. The contract ends early if one of the parties fails to respect any of its obligations, within 8 days of receipt of a formal notice. The end of this contract does not have the effect of causing a party to lose a right or to release it from an obligation, in particular with regard to confidentiality and intellectual property.

## 6. INTELLECTUAL PROPERTY

The sponsor remains the owner of the intellectual rights relating to the advertising material (trademarks, logos, designs, etc.) entrusted to the MELiSSA Foundation.

The sponsor warrants that the elements of the advertisement and materials on display are original and do not infringe any copyright, trademark or other intellectual property right, title or interest belonging to any third party.

## 7. PRIVACY

Sponsor acknowledges and agrees that The MELiSSA Foundation may provide advertising space rental and ad design services to third parties, who may be direct competitors of Advertiser or who may advertise products or services similar to those of the advertiser. The sponsor, therefore, agrees not to provide the MELiSSA Foundation with information that it considers confidential, secret or of a private nature.

## **8. FORCE MAJEURE**

Neither party can be considered in default under this contract if the performance of its obligations, in whole or in part, is delayed or prevented as a result of a situation of "force majeure". "Force majeure" must be understood as an event external to the parties, unforeseeable, uncontrollable and making it impossible to perform an obligation.

## **9. MODIFICATION OF AGREEMENT**

This Agreement may only be modified by another writing, duly signed by all parties.

## **10. APPLICABLE LAW AND JURISDICTION**

This agreement is governed by Belgian law. In the event of a conflict between the parties, they undertake to seek an amicable solution as a matter of priority. Any dispute or litigation that may arise from the interpretation and/or execution of this agreement will be submitted to the courts of the district of Brussels.

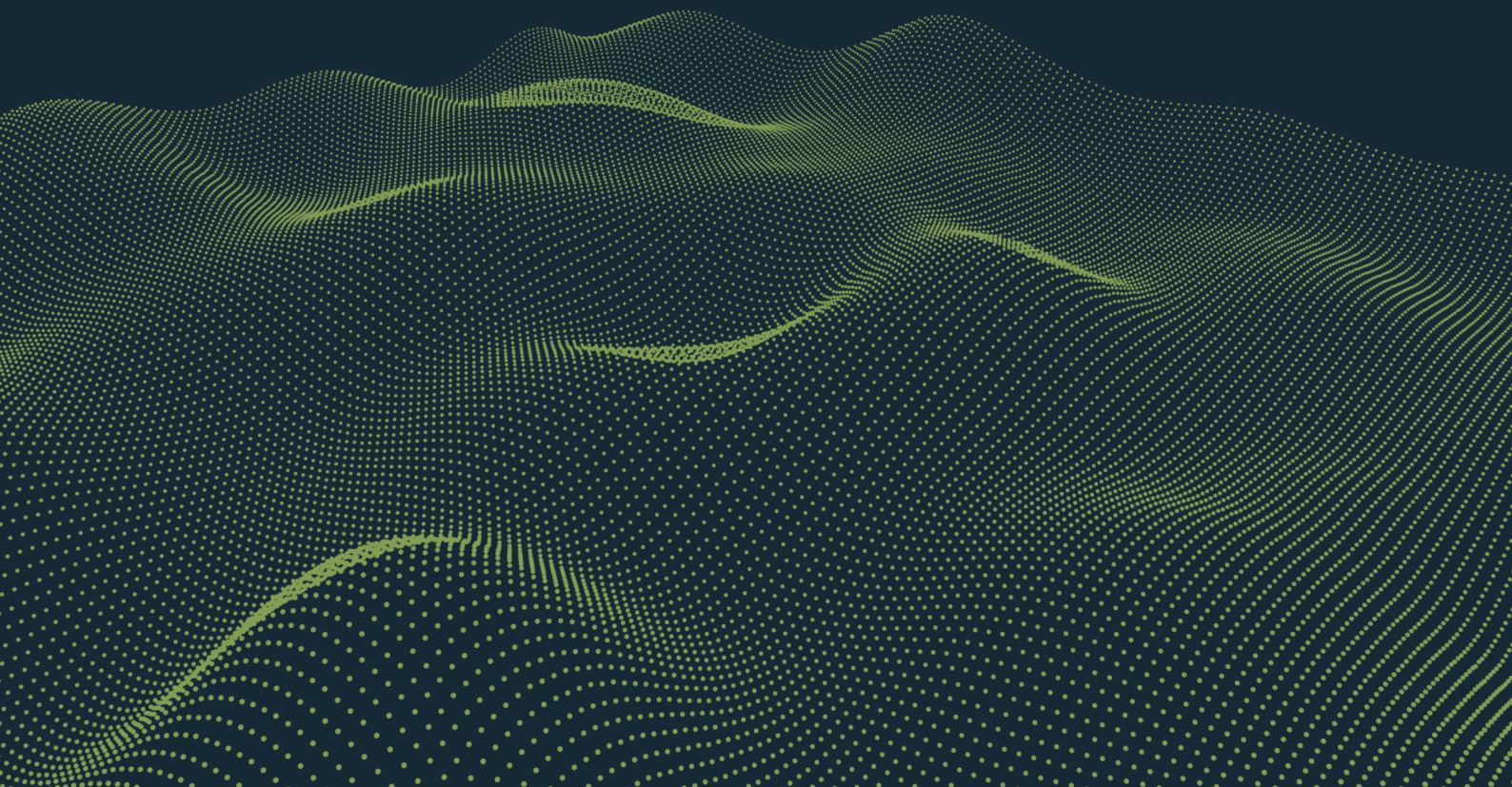
## **11. COVID-19 CLAUSE**

In the event that one or more of the restrictions listed below should apply to the event as a result of the Covid-19 pandemic, the Parties acknowledge that they are aware of the impact of a health crisis similar to Covid-19 on the potential effects on the organization and running of the 2022 MELiSSA Conference. Should such a crisis occur again during the timeframe of the 2022 MELiSSA Conference, necessitating the cancellation of the Conference, the Parties agree on the following principles:

The Parties agree to cancel their respective obligations related to the visibility of the sponsor within the framework of the 2022 MELiSSA Conference in person, as provided for in this contract.

The Parties agree not to claim any reimbursement on the amounts related to the sponsorship contract.

The MELiSSA Foundation undertakes to maintain the 2022 MELiSSA Conference in digital form for all participants registered for the 2022 MELiSSA Conference. This includes maintaining the visibility of the sponsors through digital channels.



Organized by



[www.melissafoundation.org](http://www.melissafoundation.org)