



# EUROPEAN ACADEMY OF SCIENCES

## MINUTES

### General Assembly Meeting

01/2024

On July 28<sup>th</sup>, 2024, at 10:30 (CET) a General Assembly meeting was held on an online platform (zoom).

A list of 54 attendees is attached, along with proxies received from an additional 5 members ([Annex I](#)).

#### Agenda:

1. General Information
2. Presentation of the Annual Report 2023
3. Event 2024
4. General Contact with Members
5. Other matters

The meeting began on time, and participants were given 5 minutes for additional members to join. President Rodrigo Martins welcomed all participants and mentioned technical issues with sharing his presentation, which were quickly resolved.

The President, Prof. Rodrigo Martins opened the meeting by thanking all attendees and emphasised the importance of maintaining direct contact with the Academy's members, highlighting the availability of open communication channels. Prof. Martins then gave an overview of the General Assembly's purpose, including updates on the activities of 2023, the annual report, the upcoming event in Lisbon, division updates, and anticipated future activities.

An overview of the full [2023 Annual Report \(Annex II\)](#), previously made available for all members on the member's personal area in April 2024 was presented, focusing on internal changes, the update of the Academy's statutes, and bylaws. President Rodrigo Martins discussed the Academy's achievements and activities in 2023, highlighting significant projects, collaborations, events, and providing a financial overview. He emphasised the successful completion of several projects, which led to open discussions and meetings in the fields of chemistry, medicine, materials, and the environment, involving academicians primarily from China and other Asian countries.



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After the presentation, members were given the opportunity to ask questions and provide feedback.

Prof. Miguel Alario-Franco thanked the President for the detailed report and suggested that a written copy be sent to all members, as the audio quality during the meeting was not perfect for all.

Prof. Pierre Braunstein inquired about the target number of members in the Academy, questioning whether there was a fixed goal or if there should be flexibility in the number of new members elected annually. The President explained that before the database revision, there were approximately 1,500 members, which some considered excessive. The goal was to adjust to around 1,000 effectively active members. However, he emphasised that there is no fixed number, and that flexibility is essential.

Prof. Mioara Manda (CNES) raised a couple of questions. She first asked whether guest members could eventually become fellows or if their status was fixed, suggesting clarity on whether there is a progression path, as some individuals might not be interested in becoming guest members if there is no possibility of advancement. Prof. Rodrigo Martins responded, emphasising a clear distinction between Fellows and Guest Members, stating that guest members cannot become fellows, as fellows are recognized for their outstanding scientific merit, while guest members, although significant contributors, do not reach the level required for fellowship. Prof. Manda further suggested that a guest member might continue to contribute and eventually meet the qualifications for fellowship over many years. However, Prof. Martins reiterated that these decisions are governed by the organisation's statutes and ultimately by the divisions. Prof. Manda then raised a second question regarding communication, stressing its importance for the Academy. She suggested that each division could consider having an early career scientist as a guest member, tasked with handling communication, as they are often more effective and present in the media. Prof. Martins fully agreed, but noted that this responsibility lies with the divisions, though he expressed full support for the idea. Finally, Prof. Manda congratulated the organisation on the 2024 awards but expressed disappointment over the lack of female awardees, urging more attention to diversity and inclusion in the future. Prof. Martins agreed, acknowledging the issue as a broader problem within associations and academies, and noted that while some efforts had been made, more consistent attention is needed. He concluded by recognizing the importance of gender balance, citing ongoing efforts in engineering and mathematics divisions to address this issue.



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Prof. Katharina Kohse-Höinghaus expressed gratitude for the report and emphasised the importance of communication, particularly regarding inter-member communication. She pointed out the need for clear structures targeting specific audiences in future communication efforts, such as scientists, the general public, stakeholders, and policymakers. She noted that each target demands different approaches and significant effort, stressing the importance of structuring the communication process effectively. While internal communication and website management are priorities, she expressed interest in seeing how external communication would be handled.

Prof. Rodrigo Martins agreed, acknowledging the various channels that need to be targeted, including academicians, policymakers, sponsors, and the general public. He suggested the idea of involving younger members in each division to support communication and dissemination activities. Kohse-Höinghaus appreciated this but emphasised that merely assigning someone to the task without providing content, connections, or strategic guidance could lead to ineffective results. She proposed forming a committee to develop professional suggestions, set specific targets, and determine appropriate content and measures for communication.

Prof. Martins concurred with the idea of forming a committee to address communication strategies within the Academy. He acknowledged Kohse-Höinghaus's experience and contributions and asked that her name be highlighted as the promoter of this initiative.

Prof. Paul Tréguer emphasised the critical importance of communication and its connection to the initiatives being undertaken by the Academy. He provided two examples to highlight this, beginning with the organisation of Sino-European forums. These forums are collaborative efforts between the Chinese Academy of Sciences and the Academy, focusing on advancements in ocean science and technology. The next event is scheduled for November, to be held in Shanghai and online, co-organized by Prof. Tréguer. Communication about this event will be forthcoming. He also mentioned an upcoming international event aligned with the United Nations Ocean Conference, set for June 2025. The Academy will actively participate, particularly through its contribution to a new organisation called the International Panel for Ocean Sustainability (IPOS). Prof. Tréguer concluded by expressing confidence in the Academy's evolving involvement in these initiatives.

Prof. Martins acknowledged the Academy's ongoing engagements with China, particularly those initiated by Prof. Alain Tressaud, and hinted at further developments in collaboration with the Chinese Academy of Sciences. He clarified that the committee proposed by Prof. Katharina Kohse-Höinghaus would have a broader focus, extending beyond the Sino-European collaboration to include various initiatives in fields such as materials science and environmental sciences (including the Oceans initiative). He suggested



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that Prof. Federico Rosei could provide additional insights into these initiatives, particularly those concerning materials.

Prof. Antonio Camacho emphasised the importance of content generation in effective communication within the Academy. He acknowledged that while professional support in communication is necessary, the real challenge lies in providing meaningful content. He pointed out that without substantial contributions from the members, the Academy cannot fully showcase its achievements or the excellence of its members. Reflecting on his experience as the Head of the Division for Earth and Environmental Sciences, Camacho noted that there was a lack of sufficient input from division members. He suggested that a streamlined process should be developed to make it easier for members to share their successes, results, and other significant contributions. This, in turn, would enhance the overall communication efforts of the Academy, allowing it to better highlight the achievements of its members.

Prof. Rodrigo Martins agreed with Camacho's points and reiterated the need for the committee proposed by Prof. Katharina Kohse-Höinghaus. He emphasised that each division should have dedicated individuals responsible for collecting and highlighting relevant information. This information would not only enrich the Academy's newsletter but also help in effectively communicating with the mass media and reaching broader audiences. Prof. Martins underscored the importance of integrating these efforts through a committee to ensure consistent and impactful communication across the Academy.

In this exchange, Prof. Shahzada Ahmad and Prof. Sanjay Mathur discussed the importance of diversity and international collaboration within the Academy. Prof. Sanjay Mathur highlighted the lack of gender diversity in the nomination processes and proposed the idea of appointing a diversity officer in each division to ensure a steady flow of diverse nominations. He also mentioned the potential for expanding international partnerships, particularly with the Indian National Academies, and questioned if any task force was working on such initiatives. Prof. Rodrigo Martins acknowledged the importance of these suggestions and supported the idea of enhancing collaborations with various international academies, including those in India, China, Africa, and South America. He mentioned ongoing efforts to reactivate synergies with the South American Academy, scheduled for the Lisbon meeting in October this year, and anticipated strengthening past connections with Academia Europaea. He also welcomed additional proposals for integration programs that transcend individual divisions.



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Prof. Shahzada Ahmad followed up by proposing the creation of two task forces: one focused on international relations, particularly with Asia and Latin America, and another dedicated to diversity and inclusion. He suggested that these task forces be cross-disciplinary, involving members from various fields to foster collaboration across different areas of expertise. Prof. Rodrigo Martins agreed with these suggestions, endorsing them as potential actions to be implemented in the future.

The upcoming annual event in Lisbon was discussed. Prof. Armando Pombeiro, Chair of the 2024 EurASc event, provided details about the Symposium, themed "Science for Sustainability." There was general recognition of the effort in organising the event, especially in ensuring member participation.

Prof. Pombeiro provided an overview of the Symposium, highlighting its expanded scientific program, which includes 27 or 28 invited oral lectures, eight awardee presentations, and poster sessions. A notable new initiative is the inclusion of industry interaction, especially with startup companies and one major industry player in lithium-ion batteries for electric vehicles. The aim is to foster interdisciplinarity and greater interaction between the Academy and industry sectors. He also introduced the plan to publish a multi-volume book titled "Science for Sustainability," gathering contributions from various fields represented within the Academy. Invitations have already been sent to speakers, and others, including non-Academy members, are encouraged to contribute. The book has received approval from World Scientific, a major international publisher. While a commemorative medal for the Academy's 20th anniversary was considered, budget constraints have currently placed that on hold.

Prof. Rodrigo Martins acknowledged the value of the proposed initiatives, emphasising the importance of commemorating the Academy's 20th anniversary through efforts like the book publication. He also reiterated the importance of international collaborations, mentioning recent and ongoing efforts to build connections with various international science academies, such as those in Romania, Kosovo, and Albania.

In this segment, Prof. Braunstein expressed concerns about the low attendance at the General Assembly, noting that only about 50 members were connected. He emphasised the importance of higher participation, especially for the upcoming October meeting organised by Prof. Pombeiro, which promises to be a significant event with a remarkable program and new initiatives. Prof. Braunstein stressed that networking, a key goal of these gatherings, begins at such symposia and general assemblies. He urged all divisions to actively encourage their members to register and attend, suggesting that the lack of member participation might indicate a communication problem within the Academy. He also mentioned that while some divisions might have already reached out to their members, it might be necessary to reinforce these efforts.



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Prof. Rodrigo Martins echoed Prof. Braunstein's call for greater engagement, urging all division heads and members to make a concerted effort to attend the Lisbon meeting, framing it as a "party of science and technology." This highlights the collective effort needed to ensure the success of the event and to strengthen the Academy's internal networking and communication.

Prof. Arben Merkoçi expressed his gratitude for being accepted into the Academy, acknowledging the privilege of joining such a prestigious group. He mentioned that this is his first meeting as a new member, and he regretted that he would not be able to attend the October meeting due to his commitment to organising a large conference in Nano Balkans. He extended his apologies for this scheduling conflict and expressed a strong desire to collaborate with the Academy of Science of Albania and other relevant institutions. He highlighted his long-standing connections with Albania and Kosovo and offered to contribute to future collaborations in any way he could. Prof. Rodrigo Martins acknowledged Arben Merkoçi's message with thanks and appreciation.

The President emphasised the importance of maintaining and expanding connections with other science academies, mentioning specific collaborations being developed with science academies in different countries.

Prof. Mioara Manda suggested creating a clear list of action items with deadlines and assigned responsibilities to keep the momentum from the meeting and to ensure active participation from members. She emphasised the importance of continuous engagement and showing that the Academy's work is ongoing. The President agreed with Prof. Manda's point and mentioned recent events and honours, including a report he is waiting for and the importance of updating and integrating with different academies. He also addressed concerns about different academies with similar names, clarifying that some, like the Russian Academy mentioned, are not related to their organisation. He stressed that their Academy is distinct and operates independently.

A list of action items will be sent by our secretariat to all divisions, seeking engagement and volunteers.

Prof. Lamija Tanović inquired about what constitutes an active member. Prof. Martins explained that active members are those who pay their fees, regularly communicate, contribute to the webpage, and participate in promoting new members.



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Prof. Giuseppe Lacidogna expressed gratitude for the meeting and stressed the importance of engaging members and establishing connections with industry. He emphasised the need for collaboration with industry to ensure their ideas reach a broader audience.

Prof. Rodrigo Martins concluded the meeting with a positive note, suggesting they enjoy some port wine together and encouraging members to continue their efforts for the upcoming symposium in Lisbon. He also proposed considering collaborations with other academies and wished everyone a good time.

The meeting lasted for 1 hour and 45 minutes and was adjourned. This minute's document was prepared by the administrative secretary, Sara Oliveira, and will undergo thorough review and approval by the Presidium members before being signed by the Executive Committee.

Caparica, July 25<sup>th</sup>, 2024

Rodrigo Martins  
EurASc President

Alain Tressaud  
EurASc Vice-President

Daniel Scherman  
Executive Committee



Name (Original Name)	User Email	Total Duration (Min)	Guest
Alain Tressaud		89	Yes
Antonio Camacho		34	Yes
Arben Merkoçi		94	Yes
braunstein		94	Yes
Burkard Hillebrands		93	Yes
Christina Moberg		94	Yes
EG		93	Yes
Endre Süli		93	Yes
Ernst Wagner		93	Yes
Evamarie Hey-Hawkins		94	Yes
George Jaiani		93	Yes
Giorgio Benedek		64	Yes
Giuseppe Lacidogna		94	Yes
Grigorii Serovaev		93	Yes
Helge Holden		76	Yes
Herbert Gleiter		63	Yes
iPhone		92	Yes
Jean-Pierre Gattuso	CNRS-Sorbo	48	Yes
Jianrong Qiu		50	Yes
Jin Wang		93	Yes
João Rocha		94	Yes
Jose Moura		64	Yes
JUDITH	AK HOWARD	78	Yes
Katharina Kohse-Höinghaus		75	Yes
Laura Airoidi		94	Yes
liqunzhang		95	Yes
Luis Milhano - EurASc (Luis Milhano)	l.milhano@fc	97	No
Luis Oliveira e Silva		9	Yes
M. Fátima C. Guedes da Silva		92	Yes
Manuel G. Velarde		94	Yes
Mario Barbatti (Aix Marseille)		94	Yes
Martin Sterrer		54	Yes
miguelangelalarario		92	Yes
Mioara MANDEA (CNES)		86	Yes
mliu		94	Yes
Paul Tréguer		94	Yes
Pavel Exner		76	Yes
Pernilla WittungStafshede		94	Yes
Peter Fajfar		52	Yes
Peter Jenni		92	Yes
poli		58	Yes
pombeiro		91	Yes
Prof Lamija Tanović		89	Yes
Richard Durst		93	Yes
Rodrigo Martins		94	Yes
Sanjay Mathur		93	Yes
Sara Oliveira	s.oliveira@fc	98	No
Shahzada Ahmad		92	Yes
Victor Malka		53	Yes
Wil Schilders		54	Yes
WONG WY Raymond		93	Yes
yy		91	Yes
Zhibing Zhang		86	Yes





# EUROPEAN ACADEMY OF SCIENCES

## Proxy Form

for Meeting Representation

I, [Jihong Wang], residing at [REDACTED], hereby appoint [Jihong Wnag] as my proxy to represent me and vote on my behalf at the *General Assembly Meeting #01/2024*:

- *General Information*
- *Presentation of the Annual Report 2023*
- *Event 2024*
- *General contact with Members*
- *Other matters*

Scheduled to take place on July 29th, 10h30 (Brussels Time), via Zoom.

I understand that my proxy will have the authority to vote on all matters brought before the meeting, including but not limited to agenda items, resolutions, and any other business that may arise.

I grant my proxy the discretion to vote in accordance with their best judgment on matters discussed during the meeting. In the event of unforeseen circumstances or additional agenda items, my proxy is authorized to make decisions on my behalf.

This proxy authorization is effective solely for the specified meeting date mentioned above and does not extend beyond that.

[Jihong Wang ]

[ Jihong Wang ]

[26/07/2024]

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### Instructions for Proxy:

- Please send this completed proxy form to [contact@eurasc.eu](mailto:contact@eurasc.eu) at least one day prior to the meeting.
- The proxy must carry proper identification.
- The proxy is authorized to vote on all matters at their discretion.

Note: If you are unable to attend the meeting personally, it is advisable to choose a trusted individual as your proxy, and ensure they are aware of your preferences on voting matters.



# EUROPEAN ACADEMY OF SCIENCES

## Proxy Form

for Meeting Representation

I, [Natividad Carpintero-Santamaria](#), residing at [Madrid \(Spain\)](#), hereby appoint [Professor Rodrigo Ferrao de Pavia Martins](#) as my proxy to represent me and vote on my behalf at the **General Assembly Meeting #01/2024**:

- *General Information*
- *Presentation of the Annual Report 2023*
- *Event 2024*
- *General contact with Members*
- *Other matters*

Scheduled to take place on July 29th, 10h30 (Brussels Time), via Zoom.

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I grant my proxy the discretion to vote in accordance with their best judgment on matters discussed during the meeting. In the event of unforeseen circumstances or additional agenda items, my proxy is authorized to make decisions on my behalf.

This proxy authorization is effective solely for the specified meeting date mentioned above and does not extend beyond that.

Natividad Carpintero-Santamaría

27<sup>th</sup> July, 2024

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### Instructions for Proxy:

- Please send this completed proxy form to [contact@eurasc.eu](mailto:contact@eurasc.eu) at least one day prior to the meeting.
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EurASc Secretariat &lt;eas.office@gmail.com&gt;

**RE: LINK Final Agenda and Zoom Link for EurASc General Assembly Meeting #01/2024 | July 29th at 10:30 AM CEST**

1 mensagem

**Daniel Scherman** [REDACTED]  
Para: EurASc Secretariat <contact@eurasc.eu>

29 de julho de 2024 às 09:20

Dear Sara

I have a meeting at that time.

I give my proxy to Rodrigo.

Bonne journée,

Daniel

*PS : les mails envoyés les WE et jours fériés n'appellent ni lecture ni réponse pendant cette période.***De :** EurASc Secretariat <contact@eurasc.eu>**Envoyé :** lundi 29 juillet 2024 10:12**Objet :** LINK Final Agenda and Zoom Link for EurASc General Assembly Meeting #01/2024 | July 29th at 10:30 AM CEST

The meeting will be held via [Zoom on July 29th at 10:30 AM CEST](#). Below, you will find the Zoom link and the proxy form for those who cannot attend. Please ensure that the completed proxy form is submitted by July 28th.

**Zoom Link:** <https://videoconf-colibri.zoom.us/j/97064201944?pwd=0PKFsMddJFFIx7a7kfN2WWaqxJiteG.1>

Kind regards,

Sara Oliveira  
Administrative Secretariat  
European Academy of Sciences, A.I.S.B.L (EurASc)

**Website:** [www.eurasc.eu](http://www.eurasc.eu) **E-mail:** [contact@eurasc.eu](mailto:contact@eurasc.eu)



# EUROPEAN ACADEMY OF SCIENCES

## Proxy Form

for Meeting Representation

I, [Yu-Zhong Wang], residing at [REDACTED], hereby appoint [Guohua Hu] as my proxy to represent me and vote on my behalf at the *General Assembly Meeting #01/2024*:

- *General Information*
- *Presentation of the Annual Report 2023*
- *Event 2024*
- *General contact with Members*
- *Other matters*

Scheduled to take place on July 29th, 10h30 (Brussels Time), via Zoom.

I understand that my proxy will have the authority to vote on all matters brought before the meeting, including but not limited to agenda items, resolutions, and any other business that may arise.

I grant my proxy the discretion to vote in accordance with their best judgment on matters discussed during the meeting. In the event of unforeseen circumstances or additional agenda items, my proxy is authorized to make decisions on my behalf.

This proxy authorization is effective solely for the specified meeting date mentioned above and does not extend beyond that.

Yu-Zhong Wang

July 26, 2024

### Instructions for Proxy:

- Please send this completed proxy form to [contact@eurasc.eu](mailto:contact@eurasc.eu) at least one day prior to the meeting.
- The proxy must carry proper identification.
- The proxy is authorized to vote on all matters at their discretion.

Note: If you are unable to attend the meeting personally, it is advisable to choose a trusted individual as your proxy, and ensure they are aware of your preferences on voting matters.



# EUROPEAN ACADEMY OF SCIENCES

## Proxy Form

for Meeting Representation

I, **Matveenko Valerii Pavlovich**, residing at **Perm, Russia**, hereby appoint **Serovaev Grigorii Sergeevich** as my proxy to represent me and vote on my behalf at the **General Assembly Meeting #01/2024**:

- *General Information*
- *Presentation of the Annual Report 2023*
- *Event 2024*
- *General contact with Members*
- *Other matters*

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This proxy authorization is effective solely for the specified meeting date mentioned above and does not extend beyond that.

**Matveenko Valerii Pavlovich**

26.07.2024

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- Please send this completed proxy form to [contact@eurasc.eu](mailto:contact@eurasc.eu) at least one day prior to the meeting.
- The proxy must carry proper identification.
- The proxy is authorized to vote on all matters at their discretion.

Note: If you are unable to attend the meeting personally, it is advisable to choose a trusted individual as your proxy, and ensure they are aware of your preferences on voting matters.



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JANUARY 2024

# 2023 ANNUAL REPORT

**PRESENTED BY**  
EurASc Presidium



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01

**PRESIDIUM  
& EXECUTIVE COMMITTEE  
REPORT**

2023



# EUROPEAN ACADEMY OF SCIENCES

## PRESIDIUM AND EXECUTIVE COMMITTEE

### 2023 Activities Report

In 2023, the Academy witnessed significant developments, addressing various key aspects. These include the reevaluation of the role of our Perpetual Secretary, Professor H el ene de Rhode, the management of our secretariat in light of Kim's absence due to illness, and the imperative to revise our Statutes to better align with our current needs and regulations. Additionally, our involvement in supporting the EurASc symposium in Madrid, hosted by the Real Academia de Ciencias Exactas, F isicas y Naturales de Espa a, in October 2023, stands out as a remarkable achievement. This success can be attributed to the exceptional efforts of our colleague Miguel  . Alario-Franco, whose dedication we wholeheartedly commend. Furthermore, we extend our appreciation to our Spanish counterparts, particularly recognizing the contributions of Natividad Carpintero-Santamaria.

Due to unforeseen circumstances, the activity of our Perpetual Secretary has experienced a slowdown. Additionally, with Kim's departure due to health reasons, it has become imperative for us to promptly address pressing issues, particularly in terms of communication with our fellows, the nomination of new members, the management of EurASc initiatives, including our website, and the handling of our financial matters, including membership fees collection. Furthermore, there is a necessity to review and update our database pertaining to our fellows. To address the challenges surrounding our secretariat, we have dispatched Sara Oliveira and Luis Milhano to Li ge, and we have formally hired them to manage our secretarial and financial affairs. This decision has marked a significant and positive change in the support provided to the Academy.

Regarding Kim's prolonged sick leave, it has been clarified with Prof. H el ene Rode that her assistance is no longer required. However, further clarification on this matter is necessary.

Furthermore, we have scheduled the year with several executive and presidium meetings to address the current state of the Academy and to discuss the revision of our Statutes, which will be presented this year.

In addition to these internal matters, we have been actively engaged in supporting initiatives that advance the cause of science, whether they originate from our own divisions or other academies. Notably, the EurASc - Chinese Academy of Sciences meeting organized in September, under the guidance of our esteemed colleague Professor Alan Lau, was a resounding success. Furthermore, we commend the initiative led by Professor Quan Li in Nanjing, China, where he assumed the role of editor-in-chief for the newly launched journal by Wiley, titled Responsible Electronics.

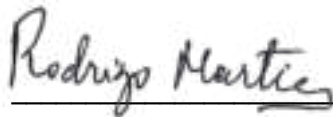
Additionally, we have been in deliberation regarding the potential for EurASc to become a member of the International Science Council.

Furthermore, we have cast our vote in favor of hosting the next EurASc 2024 event in Lisbon. This event will be coordinated by our esteemed colleague Armando Pombeiro and will take place at the Lisbon Academy of Sciences in October 2024.

Additionally,, we would like to note that attached herewith are the activity reports from all divisions, along with the administrative report and the report on the Madrid event.

This is aimed at providing transparency of information to all members.

April 2nd, 2024



Rodrigo Martins  
EurASc President



Alain Tressaud  
EurASc Vice-President



02

**CHEMISTRY DIVISION**  
**REPORT**

2023

LABORATOIRE DE CHIMIE DE COORDINATION  
INSTITUT DE CHIMIE (UMR 7177 CNRS)  
4 rue Blaise Pascal  
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67081 STRASBOURG CEDEX (France)  
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Strasbourg, Dec 2023

**Pierre Braunstein**  
Directeur de Recherche Émérite CNRS  
Professeur conventionné de l'Université de Strasbourg  
Membre de l'Académie des Sciences

## REPORT OF ACTIVITIES 2022-2023

### Chemical Sciences Division

In 2022, the Awards Ceremony of EurASc was combined with a very interesting Symposium, entitled “The future of science: the EurASc vision”. This event took place in Brussels Oct. 24-25, 2022, in the beautiful premises of the Fondation Universitaire. The Divisions were asked to give their views on the future of their field and the current challenges to be faced. For Chemistry, this was done by Pierre Braunstein, Head of the Division. This meeting also provided an opportunity to congratulate recent winners of the Blaise Pascal Medal, Prof. Manfred Reetz, Max-Planck Institute Mülheim (Germany) for 2020, Prof. Clément Sanchez, Collège de France Paris, for 2021, since meetings could not take place during the COVID pandemic, and also the 2022 laureate, Prof. Gary J. Schrobilgen, Mc Master University (Canada) who gave a superb lecture about his very challenging “Chemistry at the Edge of the Periodic Table”. This meeting also provided an opportunity to congratulate Prof. Helmut Schwarz, University of Berlin (Germany), and acknowledge his impressive contributions to chemistry, as a pioneer in research and education, and his major role as a science ambassador worldwide, who had been awarded the Leonardo da Vinci Award 2021.

Various members of our Division were present at this meeting, including from outside Europe.

In 2023, the [EurASc Annual Symposium and Awards Ceremony](#) took place in Madrid, Spain, October 23rd-24th, by invitation of the Real Academia de Ciencias Exactas, Físicas y Naturales de España, with the topic “**Science Multidisciplinarity in the 21st Century: The future of energy**”.

This event provided an ideal opportunity for scientists, researchers, engineers, and companies/institutions to share their latest achievements and opinions in the field

of energy. Although the Head and Officers of the Chemistry Division could unfortunately not attend the meeting owing to conflicts of agendas, Chemistry was strongly represented by distinguished colleagues who gave excellent and inspiring lectures: **Matthias Drieß** (TU Berlin, Germany) *“Tackling Chemistry More Green and Electric”*, **Claude Grison** (CNRS, France) (by zoom) *“Ecocatalysis and Nature: symbiosis for future”* and **Armando Pombeiro** (IST-UL, Portugal) : *“Shift of Alkanes from Fuels to Feedstocks for Organic Synthesis: a Proof of Concept towards Sustainability”*.

A Workshop on **“Advanced Materials and their Applications”**, co-organized by the International Cooperation and Exchange Department of Zhengzhou University of Light Industry (ZZULI), the Technological and Higher Education Institute of Hong Kong (THEi) and the European Academy of Science (EurASc), was held on 23-25 September 2023 in Henan (Zhengzhou), China. Professor Alan Kin Tak LAU , Fellow of the European Academy of Sciences and President of the Technological and Higher Education of Hong Kong played an instrumental role in the success of this event. Both the hospitality and scientific programme were outstanding. On this occasion, Pierre Braunstein presented a lecture entitled « Metal – Ligand Cooperativity in Molecular Chemistry and Applications in Materials Sciences »

During these two years, a total of 25 new members from 16 different countries, were elected in the Chemistry Division, illustrating an impressive scientific and geographic diversity:

**Carlos A. M. Afonso** is full professor at the Faculty of Pharmacy of the University of Lisbon (Portugal), and has interests in catalyzed synthetic methods, bioactive molecules, enzymatic reactions, and green/sustainable chemistry ;

**Khalil Amine** is Argonne distinguished Fellow and Director of the Advanced Lithium Battery Technology Program at Argonne National Laboratory, USA ;

**Valentine P. Ananikov** is Professor of Chemistry Department of Moscow State University, where he works in catalysis, nanochemistry, and reaction mechanisms;

**Anne-Marie Caminade** is Research Director in the CNRS where she works on dendrimers and their diverse applications, including in biology, organic chemistry, catalysis and material sciences ;

**Angela Casini** holds the Chair for Medicinal and Bioinorganic Chemistry at the School of Natural Sciences of the Technische Universität München (Germany);

**Luisa de Cola** is Professor at the University of Milano and expert in supramolecular and materials chemistry and their applications ;

**Sheng Dai** is Professor of chemistry and Corporate Fellow at the University of Tennessee, USA, and is recognized for his work on ionic liquids, molten salts, porous materials, and carbon materials for separation science, energy storage, catalysis, and other energy-related applications.

**Mara Freire** is a Research Coordinator of the group *Biomedical and Biomimetic Materials*, at CICECO-Aveiro Institute of Materials, University of Aveiro, Portugal.

**Matthew Fuchter** is professor of chemistry at Imperial College London has made major contributions to the fields of chemical biology and functional materials;

**Ryan Gilmour** is professor at the Westfälische Wilhelms-Universität, Münster, Germany, is expert in physical organic chemistry, organic synthesis, and chemical biology;

**Abhik Ghosh** is Professor at the Department of Chemistry and Arctic Center for Sustainable Energy Coordinator, The Arctic University of Norway, N-9037 Tromsø, Norway;

**Zeev Gross**, professor at the Technion – Israel Institute of Technology, Haifa, has made key contributions in the field of porphyrinoids;

**Magdolna Hargittai** is a research professor of structural chemistry at the Department of Inorganic and Analytical Chemistry, Budapest University of Technology and Economics;

**Donglin Jiang** is Strategy Hiring University Professor at the National University of Singapore. and works in diverse areas of polymer chemistry;

**Jörg Libuda** is Chair Professor and Head of the Erlangen Center for Interface Research and Catalysis ;

**Wenbin Lin**, James Frank Professor of Chemistry at the University of Chicago (USA) has made pioneering contributions to the fields of molecular materials for sustainable catalysis, renewable solar energy, and human health ;

**Martin Malmsten** is professor at the University of Copenhagen, Department of Pharmacy, and specialist of biopharmaceuticals, biophysics and drug delivery;

**John Nitschke**, Full Professor of Chemistry at the University of Cambridge, is a specialist in coordination and supramolecular chemistry;

**Pedro J. Perez** is Professor at the University of Huelva (Spain) and has developed catalyts for the valorisation of raw materials, including alkanes ;

**Gill Reid** is Professor at Southampton University, UK is an inorganic and coordination chemist ;

**Günther Rupprechter** is Professor of Surface and Interface Chemistry at the TU Vienna and Head of the Institute of Materials Chemistry;



**Armido Studer**, Professor at the Organisch-Chemisches Institut of the University of Münster (Germany) has made major contributions in organic radical chemistry and on C-H (hetero)arene functionalization;

**Christoph Weder** is professor at the University of Fribourg, Fribourg (Switzerland) and expert in the area of stimuli- and mechanoresponsive materials, in particular polymers;

**Wai-Yeung (Raymond) Wong**, Chair Professor and Dean of the Faculty of Sciences at the The Hong Kong Polytechnic University, has made major contributions in the study of organometallic optoelectronic polymers and molecules, with applications in energy-generating (solar cells) and energy-saving (OLEDs) processes;

**Jieping Zhu** is professor at the Swiss Federal Institute of Technology and has made major contributions to organic chemistry and natural products synthesis.

We are delighted to congratulate these colleagues for their election and welcome them very warmly, looking forward to develop stronger links with them, in particular on the occasion of our meetings.

Pierre Braunstein  
Head of the Chemistry Division



03

**COMPUTATIONAL &  
INFORMATION SCIENCES  
DIVISION **REPORT****

2023

## **Annual Report of the Computational and Information Sciences Division of EurASc**

The Computational and Information Sciences Division is one of the smaller divisions of EurASc. The officers of the Division are: Prof. Endre Süli (University of Oxford, Head of Division), Prof. Alfio Quarteroni (EPFL, Lausanne), Prof. Michael Griebel (University of Bonn), Prof. Carl K. Chang (Iowa State University), and Prof. Barbara Wohlmuth (Technical University of Munich).

During 2023 one outstanding candidate, Professor Jan Hesthaven, Professor of Mathematics and Provost at the Ecole Polytechnique Fédérale de Lausanne (EPFL), was elected as a new Fellow of EurASc in the Computational and Information Sciences Division.

The officers of the Computational and Information Sciences Division received a number of additional nominations during 2023 for election to EurASc. Several of these concerned non-European individuals based in institutions outside Europe. Because the membership of the Computational and Information Sciences Division has not yet reached the Academy's threshold of "minimum 80% Europeans in each Division", those nominations could not be considered further. The officers also received several nominations of individuals for election as Fellow of EurASc as well as a single nomination for the Blaise Pascal Medal of EurASc, but none of these were rated strong enough by the Officers of the Computational and Information Sciences Division to merit further consideration, and were therefore rejected without passing them on to heads of divisions and members of the Presidium for a vote.

In his capacity as Head of the Computational and Information Sciences Division, Endre Süli attended the Annual General Meeting and Awards Ceremony of EurASc held in Brussels on 24 and 25 October 2022 and gave a presentation of the activities of the Division during the calendar year 2022.

Oxford, 18 November 2023



04

**EARTH &  
ENVIRONMENTAL  
SCIENCES DIVISION  
REPORT**

2023

## Report for the European Academy of Sciences 2023

### The Division of Earth and Environmental Sciences of the Academy

The Division of Earth and Environmental Sciences of the Academy is by nature and definition multi-disciplinary and not pegged to any particular discipline, but incorporates several strands of scientific enquiry and inquiry. This was my conclusion on the train coming back from the excellent European Academy of Sciences Annual Meeting held in Madrid in October at the Spanish Science Academy.

The profiles of the nine persons elected to the Division in 2023 reflect the full pallet of inter-disciplinary science. Our Division is growing – we now have 59 Fellows and I would like to raise this to 80- 90 over the next year or so. For historical reasons we are very well represented in Ocean science but less so in Earth science and I would like this theme to have a higher profile in our Division. Please look at the EurASc website ([www.eurasc.eu](http://www.eurasc.eu)) in the next few days to see some of our activities, including the meeting in Madrid.

New Fellows elected to the Division in 2023 are:

Professor **Laura Airoidi**, Professor Chair in Ecology at the University of Padova and Deputy Director of the Chioggia Marine Centre of the University of Padova Italy.

Professor **Almut Arneht**, Institute of Meteorology and Climate Research (IMK)/Atmospheric Environmental Research, Karlsruhe Institute of Technology (KIT), Garmisch-Partenkirchen, Germany.

Professor **Paola Cessi**, Scripps Institution of Oceanography, University of California, San Diego USA.

Professor **Veronique Dehant**, Head of the Operational Directorate of the Royal Observatory of Belgium, Université Catholique de Louvain, Belgium.

Professor **Jian Lin** Woods Hole Oceanographic Institution, USA and Southern University of Science and Technology, China. (Foreign Fellow).

Professor **Lixin Wu**, Qingdao National Laboratory for Marine Science and Technology, China (Foreign Fellow).

Professor **Isabel Sousa Pinto**, Department of Biology, University of Porto, Portugal.

Professor **Soroosh Sorooshian**, Center for Hydrometeorology and Remote Sensing, University of California, Irvine, USA (Foreign Fellow).

Professor **Sabrina Speich**, Physical Oceanography and Climate Sciences, Ecole Normale Supérieure, France.

We offer hearty congratulations to these esteemed new colleagues.

Our Division has such an enormous role to play in the big existential questions of the 21<sup>st</sup> century – *ie* the impacts of, adaptation to and mitigation of global heating, the health of the oceans, the pandemics of the past years, food security, biodiversity. I ask Fellows to send me short abstracts of any papers that they are writing. As a kick-off – I am currently developing a paper with the title of ‘The Eight Heresies of the 21<sup>st</sup> Century’, which includes a piece of my own collage art and is very multi-disciplinary, by definition.

Professor Dr John R Porter  
Head of Division.



05

**ENGINEERING DIVISION**  
**REPORT**

2023



## Annual Report of the EurASc Engineering Division

Giuseppe Lacidogna report for the Engineering Division.

The Head of the Engineering Division, Prof. Alberto Carpinteri, gave up his position due to new commitments. For this reason, starting from September 2023, Prof. Giuseppe Lacidogna (Politecnico di Torino, Italy) has been appointed "ad interim" as the new Head of the Division.

The officers of the Division are: Prof. Philippe Dubois (University of Mons, UMONS, Belgium), Prof. Dimitrios Aggelis (Vrije Universiteit Brussel, Belgium), Prof. Mauro Ferrari (University of Washington, USA).

During the activities carried out in 2023, Prof. Junuthula N. Reddy was awarded by the Leonardo da Vinci Award 2023. He was nominated by Prof. Marco Amabili. Prof. Reddy participated in the Symposium and the Ceremony of Awards and his lecture was entitled: "Computational Mechanics: The Third Pillar of Scientific Investigation".

During the Ceremony held on October, 24, 2023 in the Real Academia de Ciencias Exactas, Físicas y Naturales de España, he was presented by Rodrigo Martins, EurASc President, and Alain Tressaud Vice-President.

Moreover, Prof. George Z. Voyiadjis has been awarded the Blaise Pascal Medal 2023. He was nominated by Prof. Alberto Carpinteri. Prof. Voyiadjis participated in the Symposium and the Ceremony of Awards and his lecture was entitled: "A Physics-based Crystal Plasticity Model with Applications in Simulation of Micropillar Compression and Strengthening Effect of Multilayered Copper-graphene Nanocomposites".

During the Ceremony held on October, 24, 2023 in the Real Academia de Ciencias Exactas, Físicas y Naturales de España, he was presented by Giuseppe Lacidogna, Head of Engineering Division.

In the same year 2023, two new Fellows were elected in the EurASc Engineering Division:

- Prof. René de Borst, who has been nominated by Prof. Jianfu Shao (University of Lille);
- Prof. Shuai Li, who has been nominated by Prof. Alberto Carpinteri.

In 2023, the Head and officers of the Engineering Division have received extra nominations for becoming a Fellow of EurASc. Some of these nominations were for individuals who are not from Europe or are affiliated with institutions outside of Europe. However, since the Engineering Division currently does not meet the Academy's requirement of having a minimum of 80% Europeans in each Division, these nominations were not immediately reviewed. They may be taken into consideration for next year.

Moreover, to improve teamwork and the sharing of ideas among EurASc Engineering Division members and international scholars, it would be very advantageous for the upcoming year to suggest topics on advanced engineering and urge the Engineering Division fellows to actively participate in the symposiums organized by EurASc. For instance, the Annual Symposium in October 2024, to be held at the Academy of Sciences in Lisbon, will be a great opportunity to meet.

Torino, December 24, 2023



06

**MATERIALS SCIENCE**  
**DIVISION REPORT**

2023

Report for the year 2023

Materials Science Division, European Academy of Sciences

## Events

Finally, after almost three years of remote / online events, in 2023 resumed more or less normal in person activities. This newly reconquered freedom allowed us to organize and participate in a number of events that had been on hiatus since the start of the pandemic in the first quarter of 2020.

As highlighted by other colleagues, a major event which witnessed a significant participation from Members of our Academy was the “Advanced Material and Intelligent Manufacturing Forum”, held at Zhengzhou University of Light Industry and jointly organized by EURASC. I had the honour of attending this event, held last September in Zhengzhou, Henan province, China, also giving a lecture entitled “Multifunctional Materials for Emerging Technologies”. The Forum provided a venue to discuss major societal challenges and opportunities to collaborate between Members of EURASC on one side and Chinese scholars on the other. Among high level participants, there were presentations from Members of the Chinese Academy of Sciences and the Chinese Academy of Engineering. Most of the credit goes to Academician / Professor Alan Lau for ensuring a smooth and well-organized event.

More information about this event can be found here:

<https://www.eurasc.eu/first-international-forum-on-advanced-materials-and-intelligent-manufacturing/>

and here:

<https://www.eurasc.eu/high-level-scientific-forum-on-advanced-materials-and-intelligent-manufacturing/>

## Blaise Pascal Medal in Materials Science

Professor George Malliaras from the University of Cambridge is this year's laureate of the Blaise Pascal Medal in Materials Science. Professor Malliaras is a pioneer in organic and bio-organic electronics.

The complete citation can be found here:

<https://www.eurasc.eu/leonardo-da-vinci-award-blaise-pascal-medallists-2023/>

## New Members of the Division of Materials Science

The Division now has a total of almost 120 Members (including four who are deceased). The newly elected Members in 2023 are:

Sara Bals, University of Antwerp, Belgium;

Mischa Bonn, Max Planck Institute for Polymer Research, Mainz, Germany;

Rainer Haag, Free University Berlin, Germany;

George Malliaras, University of Cambridge, UK;

Nathalie Stingelin, Georgia Institute of Technology, USA;

Zhongchang Wang, International Iberian Nanotechnology Laboratory, Portugal.

Xiao-Yu Yang, Heinrich-Heine-Universität Düsseldorf, Germany;

These new members, in addition to their outstanding accomplishments, also bring substantial geographical and scientific diversity to our Division, and by extension, to the whole academy.

Our Division has been receiving a disproportionately high number of nominations of non-European candidates. Due to the membership ratio (maximum 20% of Members can be non-European), we have not been able to process most of these nominations and there is in fact a long waiting list already in place. The newly established rule stipulating that non-European Members should show significant activities in Europe and with European colleagues is also quite stringent and likely to filter numerous candidates. Statistically, most of these candidates are either Chinese scholars based in China, or Chinese scholars living elsewhere (but not in Europe). I mention this to caution our Members in relation to nominating non-European candidates: it is wise to first double check whether the current “quota” allows their nominees to be considered for election.

I would also like to remind Members that the overarching criterion for election is international recognition. Many candidates are very successful scientists, with high numbers of publications in top journals, substantial citations, significant funding etc. However, if their work has not been independently recognized internationally, making a strong case for election will be very difficult.



07

**MATHEMATICS DIVISION**  
**REPORT**

2023

## Report for the European Academy of Sciences 2023

### The Division of Mathematics of the Academy

The Division of Mathematics of the Academy comprises all pure and applied mathematics areas and it has replaced this year its full team of officers. We have received this year a substantial small number of nominations than previous years that we hope to revert in the next years. The new team of officers will certainly contribute to improving this. My term as head of the Division has come to an end and there will be elections for the head of the Division in 2024.

The profiles of the three persons elected to the Division in 2023 include the present president of the European Mathematical Society, a first-notch researcher in Statistical Sciences and a fields medalist in 2022. We also awarded a Blaise Pascal Medal this year. Our Division is slightly growing – we now have 115 Fellows and we would like to raise this to 130 over the next 3 years or so. For historical reasons we are very well represented in Applied Mathematics but less so in Pure Mathematics areas and we would like this to change in our Division to keep a healthier balance.

New Fellows elected to the Division in 2023 are:

**Sara van de Geer**, ETH Zürich, Switzerland.

**Jan Philip Solovej**, University of Copenhagen, Denmark.

**Hugo Duminil-Copin**, Université de Genève, Switzerland.

The Blaise Pascal Medal in Mathematics was awarded to:

**Athanasios Fokas**, University of Cambridge, UK.

We extend our warmest congratulations to these esteemed new colleagues and awardees.

Our division has a central role in the development of sciences in the next years with mathematical modelling in biology, physics and social sciences, the foundations of artificial intelligence, and data science as some of the highlights of our division. Mathematics is permeating all aspects of everyday life using more and deeper concepts ranging from the purest to the most applied mathematical subfields.

Professor Dr Jose A. Carrillo  
Head of Division.





08

**MEDICINE AND LIFE  
SCIENCES DIVISION  
REPORT**

2023

Report 2023 EURASC Medicine and Life Sciences Division  
Daniel Scherman, Head of Medicine and Life Sciences Division:

The Eurasc Medicine and Life Sciences Division has been actively involved in the “Advanced Material and Intelligent Manufacturing Forum”, a joint manifestation between Zhengzhou University of Light Industry and EURASC.

Prof Daniel Scherman, Head of the Division gave a lecture on the following topics:

- Transformed Biomaterials: Cyclodextrins and Genetic modification of plants (Biofuel, Medicinal drug production)
- New Biomaterials not present in nature: nanoparticles for drug delivery, for bioimaging, and for genetic drugs and vaccines.

Thus, the Division has addressed the great perspectives opened by the recent groundbreaking pharmacological revolutions, such as the use of small interfering RNAs.



In 2023, the Blaise Pascal medal has been attributed by the Division to Prof. Patrick Couvreur, for his remarkable contributions to the field of biomaterial sciences in the domains of pharmacology, polymer synthesis, physical chemistry of materials, nanotechnology, and pharmaceutical engineering. Prof. Couvreur is mostly known for his outstanding and pioneering contributions on biodegradable nanoparticles in the area of cancer chemotherapy.



Professor Llorens Cortes, who has been elected in 2021, has received the 2023 Medal for the Application of Sciences of the French Academy of Sciences.

The Division has been active in recruiting several members who will strengthen its coverage of the fields of :cell biology, neuroscience, plant science and engineering, and biological drug products:



Professor Nektarios TAVERNAKIS is Chairman of the Board of Directors at the Foundation for Research and Technology-Hellas (FORTH), Research Director at the Institute of Molecular Biology and Biotechnology (IMBB), and Professor of Molecular Systems Biology at the Medical School of the University of Crete, in Heraklion, Greece. Professor Tavernakis reinforces our competence in cell biology and neurosciences.



Professor KEXUAN Tang is Distinguished Professor, Director of Plant Biotechnology Research Center, Director of Fudan-SJTU-Nottingham Plant Biotechnology R&D) and Vice Chairman of the Division of Ornamental Plants of the International Society for Horticultural Science



09

**PHYSICS DIVISION**  
**REPORT**

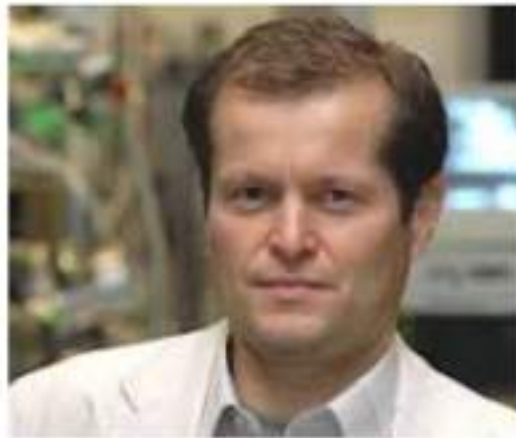
2023

The year 2023 has been an exceptional year for the Physics Division of EURASC.

**Professor Anne L’Huillier** (Lund University) and **Professor Ferenc Krausz** (Max Planck Institute for Quantum Physics, Munich), two of our distinguished fellows, have shared the 2023 Nobel Prize in Physics with Pierre Agostini (Ohio State University) with the following citation from the Royal Swedish Academy of Sciences: “for experimental methods that generate attosecond pulses of light for the study of electron dynamics in matter.”

Their work started with the new, unexpected and unpredicted discovery that an intense laser interacting with a gas of atoms produces high-order harmonics of the laser, that could lead to extremely short light pulses, in the attosecond range.

This opened the way to attosecond physics and attosecond chemistry allowing to explore sub-atomic motions and to study the ultrafast dynamics of electrons inside atoms and molecules.



**Professor Tünde Fülöp** (Chalmers University of Technology, Sweden) received the 2024 EPS Hannes Alfvén Prize together with Professor Per Helander (Max Planck Institute for Plasma Physics, Greifswald, Germany) for their outstanding contributions to theoretical plasma physics, yielding groundbreaking results that significantly impact the understanding and optimization of magnetically confined fusion plasmas.



Professor Tünde Fülöp is a world recognized expert in the field of disruptions and relativistic “runaway” electrons associated with these events. She has explored the physics of runaway electrons in tokamaks and beyond, and conducted unprecedented modelling efforts applicable to existing experiments and of relevance for future devices.

**Professor Paris Spiccas** (NKU Athens and CERN) was elected as next Chair of ECFA — the European Committee for Future Accelerators leadership of ECFA’s activities over the coming three years (2024-2026). The primary charge of ECFA is the long-range planning of European high-energy facilities – accelerators, large-scale facilities and equipment – adequate for the



conduct of a valid high-energy research programme... matched to the size of this community and to the resources which can be put at the disposal of high-energy physics by society. A particular goal of the next three years will be the preparation of the next European Strategy for Particle Physics process.”

**Professor Riccardo Betti** (University of Rochester) has been awarded the 2023 Blaise Pascal medal in the Physics Division for his outstanding contributions to high temperature plasma physics with applications to nuclear fusion and for the development of the novel “shock ignition” approach to direct-drive inertial confinement fusion. Considered as one of the most prominent protagonists in the international arena related to the study of the physics of laser produced plasmas and inertial confinement, he has delighted the audience of the last EURASC Annual Symposium in Madrid on October 23-24 with a brilliant talk on the recent demonstration at the National Ignition Facility at Livermore that the 3.15 MJ energy released from the triggered nuclear fusion reactions largely exceeded the 2.05 MJ energy of the laser drive.



The Physics Division was also proud to welcome five outstanding new fellows in 2023, after a very strict selection process:

**Professor Robert MINASIAN**, University of Sydney, Australia

**Professor Salwan K.J. AL-ANI**, University of Baghdad, Iraq

**Professor Yarub AL-DOURI**, University of United Arab Emirates

**Professor Giampiero PASSARINO**, University of Torino and INFN Torino, Italy

**Professor Augusto MARCELLI**, Istituto Nazionale di Fisica Nucleare Roma, Italy





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**SOCIAL SCIENCES &  
HUMANITIES DIVISION  
REPORT**

2023

## Eurasc SSH Division Report for 2023

### Honors and Awards

**Eberhard Knobloch** (Technical University of Berlin):

Celebration of his 80th birthday by a two-day conference in Paris (6th and 7th November 2023).

**Torsten Wilholt** (Leibniz-University Hannover):

Bestowal of the 2023 prize for science and scholarship as awarded by the German state of Lower Saxony.

**Mauro Dorato** (University Roma Tre):

Principal Investigator in the research project financed by the Italian Ministry of the University and Research, *The Philosophical Reception of Quantum Theory in France and German-speaking Countries between 1925 and 1945: Conceptual Implications for the Contemporary Debate*. Prot. 20224HXFLY.

**Karine Chemla** (University Paris VII)

Award of the Commandino Medal, by the “Centro Interdipartimentale di Studi Urbino e la Prospettiva” and the “Centro Interuniversitario di Fondamenti della Fisica”, University of Urbino, Carlo Bo for 2022, *Lectio Commandiniana* given in 2023.

Associate Honorary Member of the Académie des sciences, belles-lettres et arts de Lyon (2023).

Fellow of the World Academy of Art and Science (WAAS) (2023).

### Newly elected members

**Inmaculada de Melo-Martín**, Professor of Medical Ethics and Population Health Sciences at Weill Cornell Medical College in New York City. Her disciplinary background is philosophy and molecular biology, and she explores epistemic aspects and ethical challenges confronting biomedical scientific and technological developments. Her contributions to the philosophy of science mostly address what is sometimes called agnotological endeavors, that is, research that is liable to produce ignorance rather than knowledge. Her widely received book on *The Fight Against Doubt* emphasizes the lack of reliable criteria for pinpointing such misinformation beforehand and rather suggests to attend to social conditions that undermine public trust in science and pave the way to the public reception of fake research. The innovative move is to shift the debate from considering dubious epistemic practices toward highlighting social values implicit in such research and engaging with value commitments of society at large. Agnotological maneuvers can be countered by creating institutional and scientific practices that facilitate and sustain warranted trust.

**Mauro Dorato**, Professor of Philosophy at the University Roma Tre. His contributions chiefly address two main fields: the philosophy of physics and the relationship between science and society. In the former area, Dorato has worked on the interpretation of quantum mechanics, in particular, on how to dissolve its tension with special relativity as it appears in entanglement or the EPR-correlations. Dorato’s second area in the philosophy of physics concerns the status of laws of nature. He defends a dispositionalist account of such laws, which reconstructs laws as relations attributing, even counterfactually, characteristic features to the manifestation of suitable conditions. Regarding the relationship of science and society, Dorato has composed important studies on the interaction between epistemic values (related to truth, reliability, or understanding) and nonepistemic values (aimed at promoting the social use of knowledge). He elaborates the view that familiarity with the methodology of science is essential to empower citizens and help them decide when experts’ opinions are divided.



**Kärin Nickelsen**, Professor of the history of science at Ludwig-Maximilians-University Munich. Her scientific background is biology, and her area of work is the history and philosophy of science. She has pursued pioneering studies on the development and methodology of photosynthesis research. A focal point of her work is the structure and nature of interdisciplinary research. One of her main questions is, how knowledge is generated in a scientific collective. Another center of her attention is the history of long-term life support systems for space flights. The challenge is to create cycles of energy and materials in an artificial environment. She has studied steps toward closing the food-waste loop, which is still an unresolved problem.

**Nikolai Spassov**, Professor at the Bulgarian Academy of Sciences. He is a paleoanthropologist who has made important discoveries about the evolution of humans in Europe. His studies of fossil hominoids of Miocene involve the identification of a tooth of the last pre-human hominoid from Europe. He also participated in the study of the hominid *Graecopithecus freybergi*, which suggests that stages of evolutionary lineage of hominins took place in Europe. This conclusion is supported by the recent discovery of *Danuvius Guggenmosi* whose remains show the ability of bipedal locomotion.

**Claudia Loebbecke** (U. Cologne) left the Academy.

### **SSH-Conference**

The SSH Division Committee organized a conference on “Science in the Social Area: How to Secure Public Credibility?,” at the Center for Interdisciplinary Research (ZiF), Bielefeld University on October 25-27, 2023.

The idea underlying the conference is that science has moved into the social arena and that science and society are now heavily intertwined. On the one hand, science is accredited with high trustworthiness in polls and surveys, on the other hand, scientific results on practical matters, such as nutrition, health, or the climate, are met with doubt in parts of society. Thus, with respect to some fields of knowledge and to parts of the wider audience, science suffers from a lack of public trust. In the conference, an interdisciplinary panel of speakers explored the relationship between science and society in greater depth and inquired into options for realignment.

Topics concerned the relation between science and politics and the nature of scientific policy-advice, science operating under the pressure of practice, and strategies for retaining or regaining public trust in science. Participants from the SSH Division included: Julian Reiss (JKU Linz), Hanne Andersen (U. of Copenhagen), Mauro Dorato (U. Roma Tre), Stéphanie Ruphy (ENS Paris), Torsten Wilholt (LU Hannover), Gerhard Heinzmann (U. de Lorraine) and Martin Carrier (Bielefeld U.).



11

**EURASC**  
**SYMPOSIUM & CEREMONY**  
**REPORT**

2023



# EUROPEAN ACADEMY OF SCIENCES

## **\*\*Report on the EurASc 2023 Symposium and Ceremony\*\***

### **A Celebration of Scientific Excellence in Madrid**

The EurASc 2023 Symposium and Ceremony, held in Madrid on October 23<sup>rd</sup> and 24<sup>th</sup>, was a resounding success, showcasing outstanding achievements and fostering collaboration in the scientific community. Chaired by Miguel Á. Alario-Franco, the event was marked by notable presentations, prestigious awards, and insightful discussions.

#### **Organizing Committee's Leadership:**

Led by Chairman Miguel Á. Alario-Franco, Jesús María Sanz-Serna, Rodrigo Martins, Alain Tressaud, Natividad Carpintero-Santamaría and Hélène de Rode, the Organizing Committee ensured the seamless execution of the event, creating a dynamic platform for scientific exchange and collaboration.

#### **Scientific Insights at Real Academia de Ciencias:**

The Real Academia de Ciencias Exactas, Físicas y Naturales de España provided the perfect backdrop for the symposium, emphasizing its commitment to advancing research across mathematical, physical, chemical, geological, and biological sciences.

#### **Highlight of Invited Talks:**

The Symposium featured a series of engaging talks by prominent speakers:

#### ***Catalysis in the Energy World*** (Presented by Alain Tressaud):

- Prof. Hermenegildo Garcia (CSIC-UPV, Spain): "Photocatalysis - Producing fuels from Sunlight"
- Matthias Driess (TU Berlin, Germany): "Tackling Chemistry More Green and Electric"
- Claude Grison (CNRS, France): "Ecocatalysis and Nature: symbiosis for future"

Académie Européenne des Sciences – European Academy of Sciences

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# EUROPEAN ACADEMY OF SCIENCES

## **Sustainability** (Presented by Rodrigo Martins):

- Armando Pombeiro (IST-UL, Portugal): "Shift of Alkanes from Fuels to Feedstocks for Organic Synthesis: a Proof of Concept towards Sustainability"
- Luca Volpe (CLPU, Spain): "Is inertial fusion going to provide an energy source for the future? Recent results and remaining challenges"
- Pete Smith (Univ. of Aberdeen, UK): "Environmental sustainability considerations for land-based renewables"

## **Fusion & Fission** (Presented by Miguel Alario-Franco & Natividad Carpintero-Santamaria):

- Ricardo Betti (Univ. Rochester, USA): "Burning plasmas and thermonuclear ignition via lasers"
- Mike Campbell (CERN, Switzerland): "Quantum imaging of ionizing and non-ionizing radiation and some applications related to energy and fusion research"
- Tony Donné (EUROfusion, Germany): "Magnetic Confinement Fusion: Status, Challenges and Prospects"

## **Prestigious Awards and Recognitions:**

The Symposium honored outstanding individuals with prestigious awards:

On October 24th, 2023, the EurASc 2023 Symposium and Ceremony in Madrid continued with the acknowledgment of outstanding contributions in various scientific fields, accompanied by insightful talks from distinguished scholars.

The recipients and talks for the day were as follows:

The **\*\*Leonardo da Vinci Award\*\*** was bestowed upon Professor J.N. Reddy from Texas A&M University, USA. The award, presented by Rodrigo Martins and Alain Tressaud, EurASc President and Vice-President respectively, recognized Professor Reddy's pioneering work in "Computational Mechanics: The Third Pillar of Scientific Investigation." His research and educational endeavors in composite materials and structures were celebrated with this prestigious accolade.

Professor George Z. Voyiadji, from C4G - Louisiana State University, USA, received the

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**\*\*Engineering Blaise Pascal Medal\*\***. Giuseppe Lasidogna, Head of the Engineering Division, presented the award in recognition of Professor Voyiadji's significant contributions in plasticity and damage modeling. His talk, titled "A Physics-based Crystal Plasticity Model with Applications in Simulation of Micropillar Compression and Strengthening Effect of Multilayered Copper-graphene Nanocomposites," underscored the depth of his research.

The **\*\*Physics Blaise Pascal Medal\*\*** was awarded to Professor Riccardo Betti from the University of Rochester, USA. Presented by Paul Lecoq, Head of the Physics Division, the award acknowledged Professor Betti's outstanding achievements in high-temperature plasma physics. His talk, "Status of laser fusion research and progress towards inertial fusion energy," highlighted his groundbreaking work in inertial fusion energy, particularly the novel "shock ignition" approach to direct-drive inertial confinement fusion.

Professor George Malliaras from the University of Cambridge, UK, received the **\*\*Materials Science Blaise Pascal Medal\*\***. Tomas Torres-Cebada, representing the Head of the Materials Science Division, presented the award in recognition of Professor Malliaras's pioneering contributions to organic electronic materials. His talk, "Technology for Bioelectronic Medicine," explored the transformative potential of organic bioelectronics in the field of medicine.

The **\*\*Mathematics Blaise Pascal Medal\*\*** was bestowed upon Professor Athanassios S. Fokas from the University of Cambridge, UK. Presented by Jesús Sanz-Serna, representing the Head of the Mathematics Division, the award recognized Professor Fokas's exceptional contributions to the solution of nonlinear partial differential equations. His talk, "Unification versus Reduction: from the Unified Transform to Asymptotics," highlighted the interdisciplinary impact of his work.

Professor Patrick Couvreur from the University of Paris-Saclay, FR, received the **\*\*Medicine and Life Sciences Blaise Pascal Medal\*\***. Presented by Daniel Scherman, Head of the Medicine and Life Sciences Division, the award acknowledged Professor Couvreur's seminal work in nanotechnologies for drug delivery and imaging sciences. His talk, "Squalene-based nanomedicines for the treatment of severe diseases," underscored the innovative potential of

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nanomedicines in addressing critical medical challenges.

These presentations and accolades underscored the profound impact of the recipients' contributions across diverse scientific disciplines, further enriching the EurASc 2023 Symposium and Ceremony with invaluable insights and advancements.

During **SESSION VII**, two parallel sessions took place:

- 1) **\*\*Madrid Declaration: Energy & Global Change RAC & EASAC\*\***
- 2) **\*\*Iberian Sciences\*\***

Presented by Rodrigo Martins, the EurASc President, and Miguel Alario-Franco, these sessions addressed significant topics:

**\*\*Madrid Declaration: Energy & Global Change RAC & EASAC:\*\***

The Madrid Declaration focused on issues pertaining to energy and global change, co-hosted by the Real Academia de Ciencias Exactas, Físicas y Naturales de España (RAC) and the European Academies' Science Advisory Council (EASAC). This session aimed to articulate a comprehensive document, the Madrid Declaration, which would outline strategies and commitments concerning energy and global environmental challenges.

**\*\*Iberian Academy of Sciences:\*\***

Under the auspices of the European Academy of Sciences, this session marked the inaugural meeting to establish an Iberian Academy of Sciences. The primary objective was to identify common interests and synergies between existing scientific academies in Portugal and Spain. The envisioned Iberian Academy would serve as an overarching institution, fostering collaboration, knowledge exchange, and joint research endeavors between the two countries. Among the proposed initiatives were mutual advising, collaborative research projects, and joint applications to European research funding programs. Furthermore, the session discussed the potential establishment of an "Iberian Research Fund," supported by governmental, EU, and private sector entities, aimed at promoting research and innovation in science and technology

# EUROPEAN ACADEMY OF SCIENCES

within the Iberian Peninsula.

These parallel sessions exemplified the commitment of scientific institutions to address pressing global challenges while fostering regional cooperation and innovation in scientific research and development.

## **New Members Induction:**

Following the awards ceremony, the EurASc 2023 Symposium and Ceremony in Madrid continued with a significant announcement: the induction of 51 new members into the European Academy of Sciences (EurASc), marking a momentous occasion in the pursuit of scientific excellence.

In a heartfelt message from the President of EurASc, the new members were warmly welcomed into the esteemed academy. Each individual was recognized for their exceptional scientific achievements, carefully evaluated to ensure their contributions align with EurASc's mission to advance science and technology for social and economic progress.

The names of the new members were announced across various divisions:

### **\*\*Chemistry Division:\*\***

- Khalil Amine
- Anne-Marie CAMINADE
- Pedro J. PEREZ
- Martin Malmsten
- Angela AGOSTIANO
- Ryan Gilmour
- Zeev Gross
- Gill REID
- Christoph Weder

### **\*\*Computational and Information Sciences Division:\*\***

# EUROPEAN ACADEMY OF SCIENCES

- Wil Schilders

## **\*\*Earth and Environmental Sciences Division:\*\***

- Laura AIROLDI

- Almut ARNETH

- Paola Cessi

- Veronique Dehant

- Jian Lin

- Verinder Sharma

- Sabrina Speich

- Soroosh Sorooshian

- Ruben SOMMARUGA

- Isabel Sousa Pinto

- Lixin Wu

## **\*\*Engineering Division:\*\***

- Manuel Doblaré

- Alfonso Farina

- René de BORST

- Petros Ioannou

- Shuai Li

- Jihong Wang

## **\*\*Materials Science Division:\*\***

- George Malliaras

- Zhongchang Wang

- Xiao-Yu Yang

- Sara Bals

- Mischa Bonn

- Rainer Haag

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- Natalie Stingelin

**\*\*Mathematics Division:\*\***

- Hugo Duminil-Copin

- Sarah van de Geer

- Jan Philip Solovej

**\*\*Medicine and Life Sciences Division:\*\***

- Kexuan Tang

- Nektarios Tavernarakis

**\*\*Physics Division:\*\***

- SALWAN Al-Ani

- Ricardo Betti

- Robert Minasian

- Yarub Al-Douri

- Ginestra Bianconi

- Burkard Hillebrands

- Augusto Marcelli

- PASSARINO Giampiero

- Pere Roca

**\*\*Social Sciences and Humanities Division:\*\***

- Immaculada de MELO-MARTÍN

- Mauro Dorato

- Kärin NICKELSEN

- Nikolai SPASSOV

This diverse cohort of new members enriches EurASc's global network of excellence, fostering collaborative efforts and transformative contributions to advance scientific knowledge and innovation worldwide. The induction of these individuals reflects EurASc's steadfast

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commitment to promoting excellence in science and technology across disciplines.

## **Closing Session:**

The closing session was led by President and Vicepresidents of EurASc and encapsulated the key takeaways and insights from the EurASc 2023 Symposium and Ceremony. Conclusions drawn from the event's discussions and presentations were summarized, emphasizing the importance of collaboration, innovation, and scientific excellence in addressing global challenges.

## **Future Meetings - EurASc 2024 Symposium & Ceremony:**

The EurASc 2024 Symposium and Ceremony are scheduled to take place in Lisbon on October 29-30, 2024. This upcoming event will provide another platform for distinguished scientists, researchers, and members of the academy to convene, share knowledge, and explore emerging trends and developments in science and technology.

## **General Assembly:**

An open General Assembly took place in the closing of the event, where all EurASc members were invited to participate, including through virtual platforms such as Zoom. The General Assembly serves as an opportunity for members to engage in discussions, vote on important matters, and contribute to the strategic direction of EurASc.

During the General Assembly, various crucial topics were discussed, reflecting the collective engagement and shared responsibilities of EurASc members. The assembly covered the following key points:

### 1. Future Events and Initiatives:

- The assembly delved into discussions about upcoming events and initiatives, outlining the strategic direction for the academy in the coming months and years.
- Emphasis was placed on the need to plan and organize future events that align with

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EurASc's mission and goals.

## 2. Promotion of the Academy:

- Members recognized the importance of promoting EurASc to relevant institutions and stakeholders.

- The assembly acknowledged that the collective effort of all members is essential in raising awareness about the academy's contributions to science and technology.

- Members discussed and refined a unified presentation document for EurASc. This document aims to provide each member with a standardized tool for effective dissemination and promotion of the academy.

## 3. Review of 2023 Events:

- A comprehensive overview of events conducted throughout 2023 was presented, showcasing the diverse range of activities and contributions made by EurASc during the year.

## 4. Elections for 2024:

- The impact of the ongoing COVID-19 situation on organizational matters was addressed.

- Due to the challenges posed by the pandemic, mandates here extend of current officeholders, that will now be open for elections.

The General Assembly served as a platform for open dialogue, collaborative decision-making, and strategic planning, reinforcing the commitment of EurASc members to the advancement of science and technology.

### **Social Dinner:**

The Social Dinner held at Residencia de Estudiantes offered a more informal and relaxed atmosphere, fostering interaction among members. Scheduled for October 23rd at 8:30 PM in the Salon de Atos, the dinner aimed to facilitate fellowship and socializing among attendees.

Residencia de Estudiantes holds significant cultural importance as Spain's first cultural center and a prominent venue for artistic and cultural exchange in inter-war Europe. It hosted renowned figures such as Federico García Lorca, Salvador Dalí, Luis Buñuel, and Severo Ochoa,

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reflecting its rich history as a hub for innovative ideas.

Established in 1910 as an intellectual complement to university studies, the center maintained independence from political, religious, or moral ideologies. It served as a meeting point for the international avant-garde, attracting distinguished figures from Spanish culture throughout the 20th century.

The event featured a talented pianist whose performance added vibrancy to the gathering, bringing joy and life to the iconic instrument within the historic space. The pianist's presence enhanced the convivial atmosphere, contributing to a memorable evening of camaraderie and cultural exchange.

## **Attendances:**

Approximately 50 participants per day attended the EurASc 2023 Symposium and Ceremony, totaling 70 attendees overall. The event saw a diverse gathering of leading scientists, scholars, and industry experts from across various disciplines, fostering interdisciplinary dialogue and collaboration.

The closing session symbolized the culmination of the EurASc 2023 Symposium and Ceremony while also paving the way for future endeavors and continued engagement within the scientific community.



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12

**ADMINISTRATIVE**  
**REPORT**

2023



# EUROPEAN ACADEMY OF SCIENCES

## **\*\*EurAsc 2023 Administrative Report\*\***

This report provides an overview of EurAsc's administrative activities from May 2023 to December 2023, highlighting key developments and achievements during this period.

Due to health issues, our part-time administrative assistant, Kim De Leeuw, has been on indefinite sick leave since February 2023, and this situation persists. To address this challenge and in the absence of additional staff, we proposed hiring Sara Oliveira (also part-time), who has been collaborating with the academy since 2018. Sara accepted the proposal, and Luis Milhano's services were also enlisted for financial management. Despite this, both contracts remain financially beneficial as they fall below the compensation paid to the absent administrative assistant.

In July 2023, Luis and Sara traveled to Liege, the headquarters of EurAsc, to gain access to crucial information for remote management. Following meticulous organizational efforts and data collection, their work is now yielding tangible results.

On the administrative front, the Member Database (active and historical) was completed and refined, including the assignment of membership numbers. Several meetings were held to streamline nomination procedures and voting, resulting in improved communication channels and response times for member queries. The personal area for each member on the EurAsc.eu website was activated, facilitating nominations and updates to personal data.

In terms of events, the annual event on October 23rd-24th, 2023, the EurAsc Symposium 2023 & Ceremony took place in Madrid, hosted by the Real Academia de Ciencias Exactas, Físicas y Naturales de España – SPAIN attracted 60 participants. New members were presented with their membership certificates during this ceremony.

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Regarding our social media presence, significant growth was observed over the last 365 days, with substantial increases in post impressions, engagements, followers, profile viewers, and search appearances on LinkedIn.

Despite challenges in Human Resources and increased event revenue, it was possible to end 2023 with positive revenue, which was not the case in 2022.

**Conclusion:**

The European Academy of Sciences stands as a beacon of excellence in promoting fundamental research and advancing science and technology. As a non-profit, non-governmental organization comprised of distinguished scholars and engineers, EurASc is committed to fostering social and economic development through the promotion of science and technology.

The administrative efforts undertaken from May to December 2023 have significantly contributed to EurASc's mission. Despite challenges in Human Resources and the need for increased event revenue, the academy has demonstrated resilience and financial stability, ending the year with positive revenue. These achievements underscore EurASc's dedication to excellence and its pivotal role in shaping the scientific landscape.

**Final Acknowledgment:**

The dedicated efforts of Sara Oliveira and Luis Milhano have undeniably yielded fruitful results for EurASc. Their commitment and hard work, particularly during the challenging period of administrative restructuring, have proven instrumental in the academy's operational success. As we reflect on the accomplishments of May to December 2023, it is evident that the meticulous organization, data clarification, and financial management executed by Sara and Luis have positioned EurASc on a trajectory of sustained success. The positive outcomes underscore their valuable contributions, setting a promising foundation for the academy's future endeavors.



Sara Oliveira

Administrative Assistant



Luis Milhano

Financial Assistant

**Académie Européenne des Sciences – European Academy of Sciences**

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# EUROPEAN ACADEMY OF SCIENCES

IN SUPPORT OF EXCELLENCE IN SCIENCE AND TECHNOLOGY

EurASc 2022 Account			
Membership fees		Annual Event	
Receipts	2022	Receipts	2022
Membership fees	39 308,15 €	Fees	2 225,76 €
Sponsorship	7 950,00 €	Dinner	890,00 €
<b>TOTAL</b>	<b>47 258,15 €</b>	<b>TOTAL</b>	<b>3 115,76 €</b>
Expenses	2022	Expenses	2022
Rentals (Office + Fondation)	6 696,96 €	Rental	2 880,00 €
Human Resources	22 492,45 €	Dinner	1 600,00 €
Bank taxes	941,44 €	Lunches	5 006,70 €
Accountant	1 337,05 €	Travel (flights, bus tickets, etc)	2 056,63 €
Website	5 404,22 €	Accommodation	580,00 €
Travel (flights, bus tickets, etc)	1 828,06 €	Prizes (Ldv, BP, certificates, pins, booklets, etc)	1 315,54 €
Mail	583,12 €	Multimedia service	500,00 €
Others	1 268,75 €	<b>TOTAL</b>	<b>13 938,87 €</b>
<b>TOTAL</b>	<b>40 552,05 €</b>		
<b>TOTAL</b>	Receipts	Expenses	Dif
	50 373,91 €	54 490,92 €	- 4 117,01 €

Prof. Rodrigo Martins  
President of EurASc

Prof. Helene de Rode  
Perpetual Secretary

Prof. Alain Tressaud  
Vice-President of EurASc

Prof. Daniel Scherman  
Member of the Executive Committee

Document presented and approved by all members of the Presidium, signed by the Executive Committee





# EUROPEAN ACADEMY OF SCIENCES

IN SUPPORT OF EXCELLENCE IN SCIENCE AND TECHNOLOGY

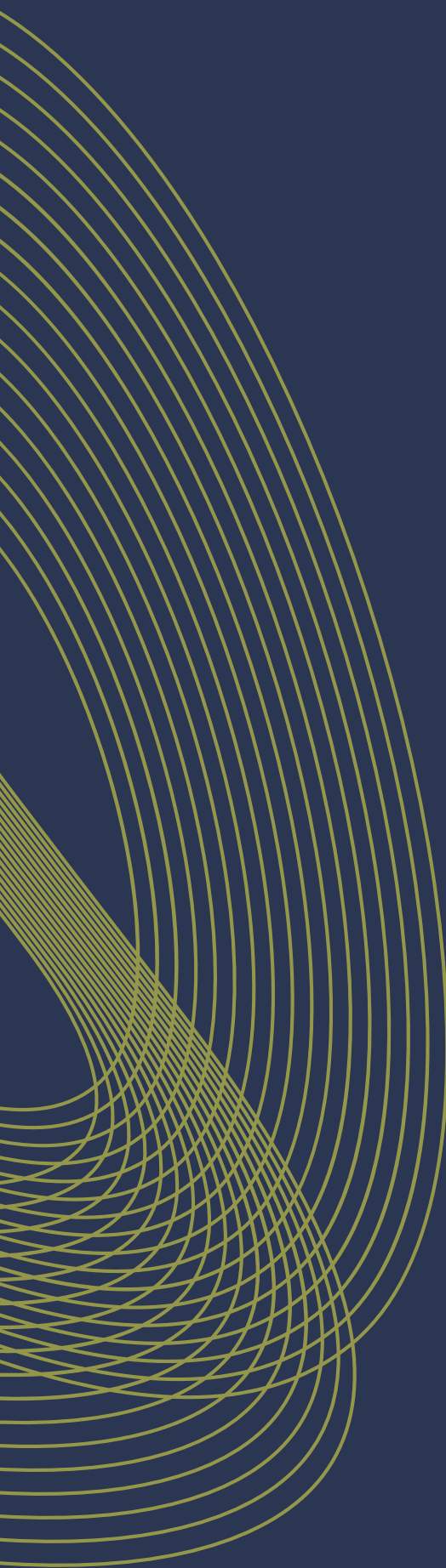
EurASc 2023 Account			
Membership fees		Annual Event	
Receipts	2023	Receipts	2023
Membership fees	54 573,43 €	Fees	3 005,08 €
Sponsorship		Dinner	1 468,77 €
Others	1 030,99 €	<b>TOTAL</b>	<b>4 473,85 €</b>
<b>TOTAL</b>	<b>55 604,42 €</b>		
Expenses	2023	Expenses	2023
Rentals (Office + Fondation)	6 394,96 €	Rental	
Human Resources	20 114,86 €	Dinner	1 317,50 €
Bank taxes	1 820,20 €	Lunches	3 958,34 €
Accountant	2 979,32 €	Travel (flights, bus tickets, etc)	806,23 €
Website	120,00 €	Accommodation	2 248,21 €
Travel (flights, bus tickets, etc)	848,74 €	Prizes (Ldv, BP, certificates, pins, booklets, etc)	1 808,88 €
Mail	211,15 €	Multimedia service	500,00 €
Others	2 014,61 €	Bank taxes	6,15 €
<b>TOTAL</b>	<b>34 503,84 €</b>	<b>TOTAL</b>	<b>10 645,31 €</b>
TOTAL	Receipts	Expenses	Dif
	60 078,27 €	45 149,15 €	14 929,12 €

Prof. Rodrigo Martins  
President of EurASc

Prof. Alain Tressaud  
Vice-President of EurASc

Prof. Daniel Scherman  
Member of the Executive Committee

Document presented and approved by all members of the Presidium, signed by the Executive Committee



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**EurASc**

# General Assembly

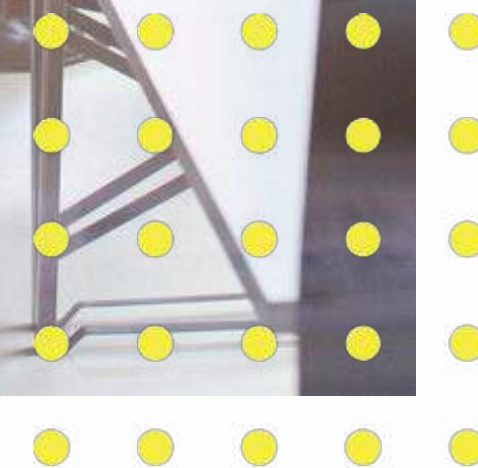
01/2024 | July 29th 2024





# AGENDA

- ▶▶▶▶▶ General information
- ▶▶▶▶▶ Presentation of the Annual Report
- ▶▶▶▶▶ ~~2023~~ 2024 –Symposium & Ceremony
- ▶▶▶▶▶ General contact with Members
- ▶▶▶▶▶ Other matters



# Introduction

The aim of this meeting is to provide direct contact with members of academia, opening up direct channels of dialogue and presenting the work carried out by government bodies. We want to improve the desired communication between all members.

The main purpose of this meeting is to present the 2023 Annual Report, which is already available to everyone in the private area of our website and will be discussed below.



# PRESENTLY ENGAGED

# IN

## Statutes & Bylaws

The new EurASC Statutes are now available on the website.

This was extensive and arduous work carried out under the leadership of Vice-President Alain Tressaud and a specific working group. This effort involved several months and several meetings to ensure that it served the best interests of the academy. The statutes are currently being notarised in order to be published in accordance with Belgian law.

## Headquarters & Official Address

At the beginning of this July, we completed the official move of the EurASC office to the new premises located at the Fondation Universitaire in Brussels. This new address will now serve as the official correspondence location for the academy, providing a central and accessible location to better meet the needs of all members.

## Organizing the 2024 Symposium & Ceremony

The registration for the 2024 Symposium & Ceremony is now open, and we would like to invite all members to join us in Lisbon for this significant event. The symposium is organized under the chairmanship of Armando Pombeiro. We are making all possible preparations to ensure it is another success for our academy. For more information, please visit our website.

## Operational Management and Administrative Efforts

EurASC acknowledges the significant contributions of Sara Oliveira, our Administrative Secretary, and Luís Milhano, our Financial Administrator, that have been diligently working on the organizational and bureaucratic management of the academy. Their efforts include identifying and updating active members and implementing new dissemination strategies to strengthen our engagement with members. Their commitment is crucial to the smooth operation and continued success of the academy.





JANUARY 2024

# 2023 ANNUAL REPORT

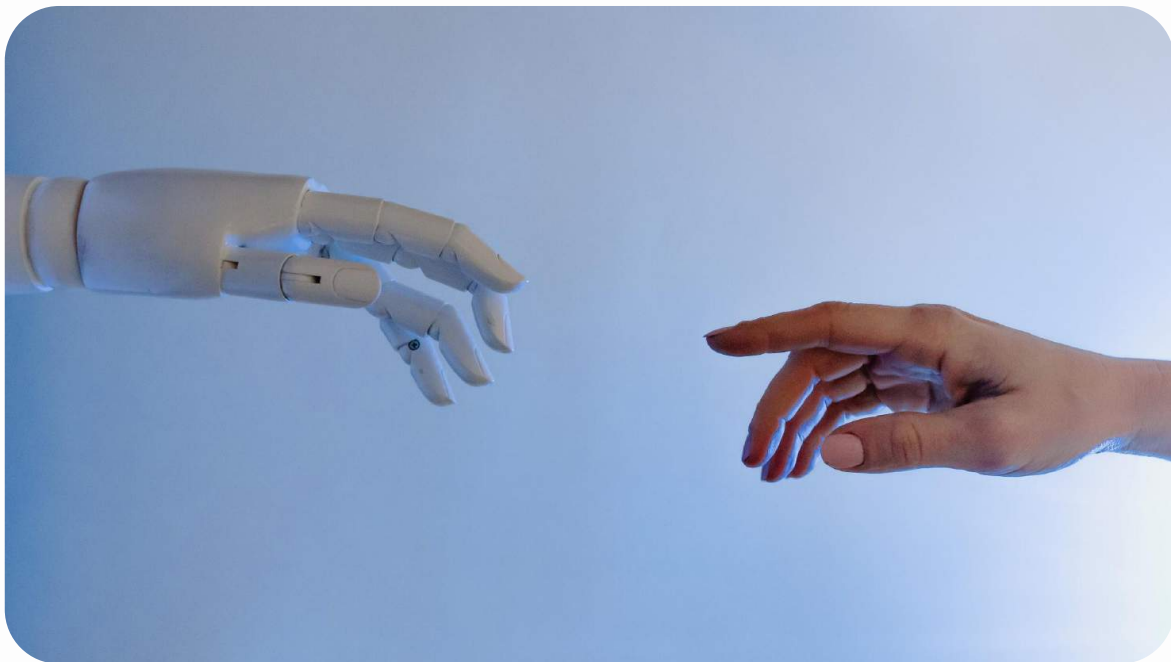
PRESENTED BY  
EurASc Presidium

JANUARY 2024

# 2023 ANNUAL REPORT

PRESENTED BY  
EurASc Presidium

# Annual Report 2023



## Scientific Activities & Achievements

The report covers the year's scientific events and awards, notably the 2023 Symposium & Ceremony in Madrid, which honored exceptional individuals and supported EurASc's mission of advancing scientific excellence and collaboration.



## Administrative & Financial Management

The report outlines challenges from an former administrative assistant's illness and the positive impact of hiring Sara Oliveira and Luís Milhano on the academy's stability.



## Future Plans & Prospects

The report outlines plans for the 2024 Symposium & Ceremony in Lisbon, emphasizing EurASc's dedication to advancing science and technology. It also addresses future challenges, the need to boost event revenue, and ongoing efforts.



# Scientific Activities & Achievements

The academy plans to continue fostering scientific excellence and collaboration, addressing global challenges through innovative research and development. The upcoming EurASc 2024 Symposium & Ceremony in Lisbon is anticipated to further these goals.

This summary encapsulates the key scientific activities and achievements of the European Academy of Sciences in 2023, highlighting the significant events, awards, and contributions across various scientific disciplines.

## Key Events

- **EurASc 2023 Symposium:** October 23–24, Madrid – Featured prominent speakers and awards.
- **Advanced Materials Forum:** September 23–25, Zhengzhou – Focused on materials and manufacturing innovations.

## Awards

- **Leonardo da Vinci Award:** Prof. J.N. Reddy
- **Engineering Blaise Pascal Medal:** Prof. George Z. Voyiadji
- **Physics Blaise Pascal Medal:** Prof. Riccardo Betti
- **Materials Science Blaise Pascal Medal:** Prof. George Malliaras
- **Mathematics Blaise Pascal Medal:** Prof. Athanassios S. Fokas
- **Medicine and Life Sciences**

## New Members

**51**  
New Members/Fellows

## Scientific Contributions

Notable advancements across chemistry, computational sciences, environmental studies, engineering, materials science, mathematics, medicine, and physics.



# Administrative & Financial Management

This summary encapsulates the key administrative and financial management activities of the European Academy of Sciences in 2023, highlighting the challenges, solutions, financial stability, and future plans for focusing on increasing event revenue and maintaining financial stability..

## Staffing and Data Management

- Hired Sara Oliveira and Luis Milhano to address administrative gaps due to Kim De Leeuw's sick leave.
- Improved data management through on-site work in Liege and refined the member database, enhancing nomination procedures and

## Website Enhancements

Activated personal member areas on EurAsc.eu, facilitating nominations and updates

## Financial Stability

Achieved positive revenue through membership fees, sponsorship, event revenue, and cost control.





# Future Plans & Prospects

The European Academy of Sciences is committed to fostering scientific excellence and collaboration, addressing global challenges through innovative research and development. By focusing on dissemination and event planning, membership growth, financial stability, interdisciplinary collaboration, strategic communication, and long-term strategic planning, the academy aims to continue its mission of promoting science and technology for social and economic

## Event Planning & Dissemination

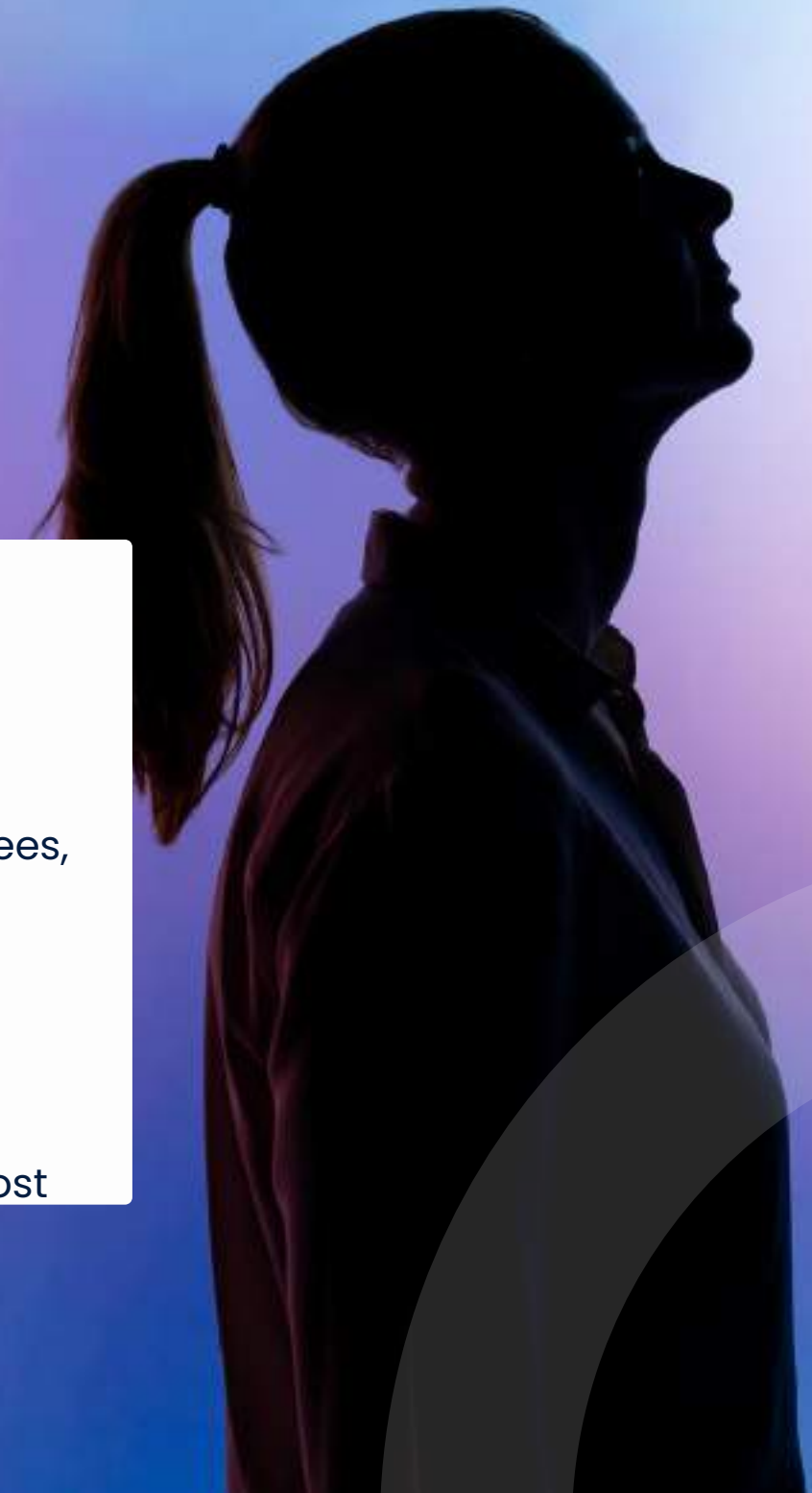
EurASc 2024 Symposium & Ceremony: Scheduled for October 29-30, 2024, in Lisbon to promote scientific excellence and innovation

## Membership Growth

New Member Induction: Continue inducting exceptional scientists to maintain high standards and foster a diverse, inclusive community.

## Financial Stability and Growth

- Increased Event Revenue: Enhance revenue through sponsorships, membership fees, and innovative fundraising.
- Operational Efficiency: Streamline administrative processes and improve financial management for cost and efficiency.



# Event 2024

Symposium & Ceremony  
October 29th & 30th



# EurASc SYMPOSIUM & CEREMONY

# 29-30 OCT 2024

ACADEMIA DAS CIÊNCIAS DE LISBOA, PORTUGAL

science for  
sustainability



FUNDAÇÃO  
MILLENNIUM  
BCP



certest



Comptes Rendus  
Chimie







**EurASc**  
SYMPOSIUM  
& CEREMONY

29-30 OCT  
**2024**

ACADEMIA DAS CIÊNCIAS DE LISBOA, PORTUGAL





# Organizing Committee



**Armando Pombeiro**  
Chair



**Rodrigo Martins**  
EurASc President



**José Luís Cardoso**  
ACL President



**Alain Tressaud**  
EurASc Vice-President



**Carlos Salema**  
ACL Vice-President



# Host Academy Organizing Committee



Armando Pombeiro



Pierre Braunstein



Vadim Kukushkin



Luis Oro



João Rocha



José Moura



Elvira Fortunato



Luís Oliveira e Silva



Artur Silva



Isabel Moura



Fátima Guedes da  
Silva



Mara Freire



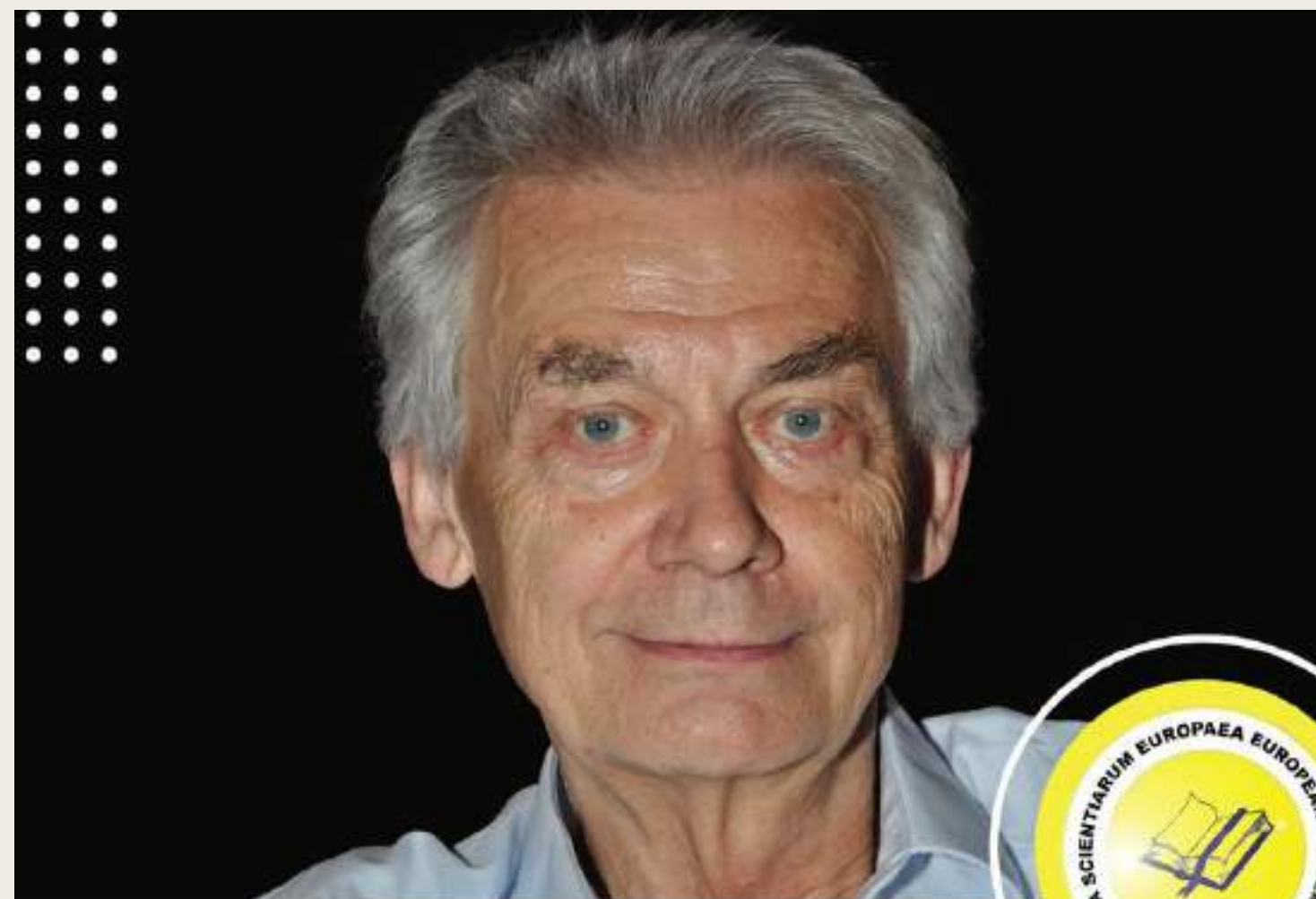
Carlos Afonso



Elisabete Alegria



# Award Ceremony



HERBERT ROESKY

2024  
Leonardo da Vinci Award

# Award Ceremony





The EurASc 2024 Symposium & Ceremony will take place on October 29–30, 2024, in Lisbon, Portugal.

**Open to all academics and researchers upon registration**, this event will welcome contributions from a wide range of scientific fields including Chemistry, Computational and Information Sciences, Earth and Environmental Sciences, Engineering, Materials Science, Mathematics, Medicine and Life Sciences, Physics, and Social Sciences and Humanities.

The program will feature lectures, discussions, and a Poster Session. A highlight of the event will be the Award and Prizes Ceremony, where the Leonardo da Vinci Award and the Blaise Pascal Medals for outstanding scientific achievements will be presented, with lectures delivered by the awardees. Additionally, the EurASc Medal of Honor for Distinguished Leadership, a new recognition to honour past Presidents for their exceptional contributions and outstanding leadership, will be awarded. There will also be a welcome session for new members.

Promotion of interaction between the academic and industrial sectors will be a key focus. In celebration of EurASc's 20th anniversary, the edition of a celebratory book by a major world publisher is under consideration.

A social program, including guided tours of Lisbon and nearby cultural sites, is also being planned.



# Future Prospects

01

## Website Development:

- Enhance the personal area on the website, providing active members with access to more academy materials, including promotional materials (PPTs, brochures, logos, etc.).
- Improve communication between the academy and its members through personalized updates and notifications.

02

## Increased Member Engagement:

- Encourage divisions and members to organize more activities such as workshops, seminars, and webinars.
- Promote the academy's name and partnerships through these events to reach a broader audience.

03

## Enhanced Communication:

- Develop strategies for better interaction between the academy and its members, ensuring timely responses and updates.
- Implement regular newsletters and updates to keep members informed about the latest developments and opportunities within the academy.

04

## Broader Outreach:

- Foster collaborations with other scientific organizations and institutions to expand EurASc's influence and network.
- Participate in and support joint research projects, public forums, and outreach events to promote science and technology to a wider audience.

# Our Team



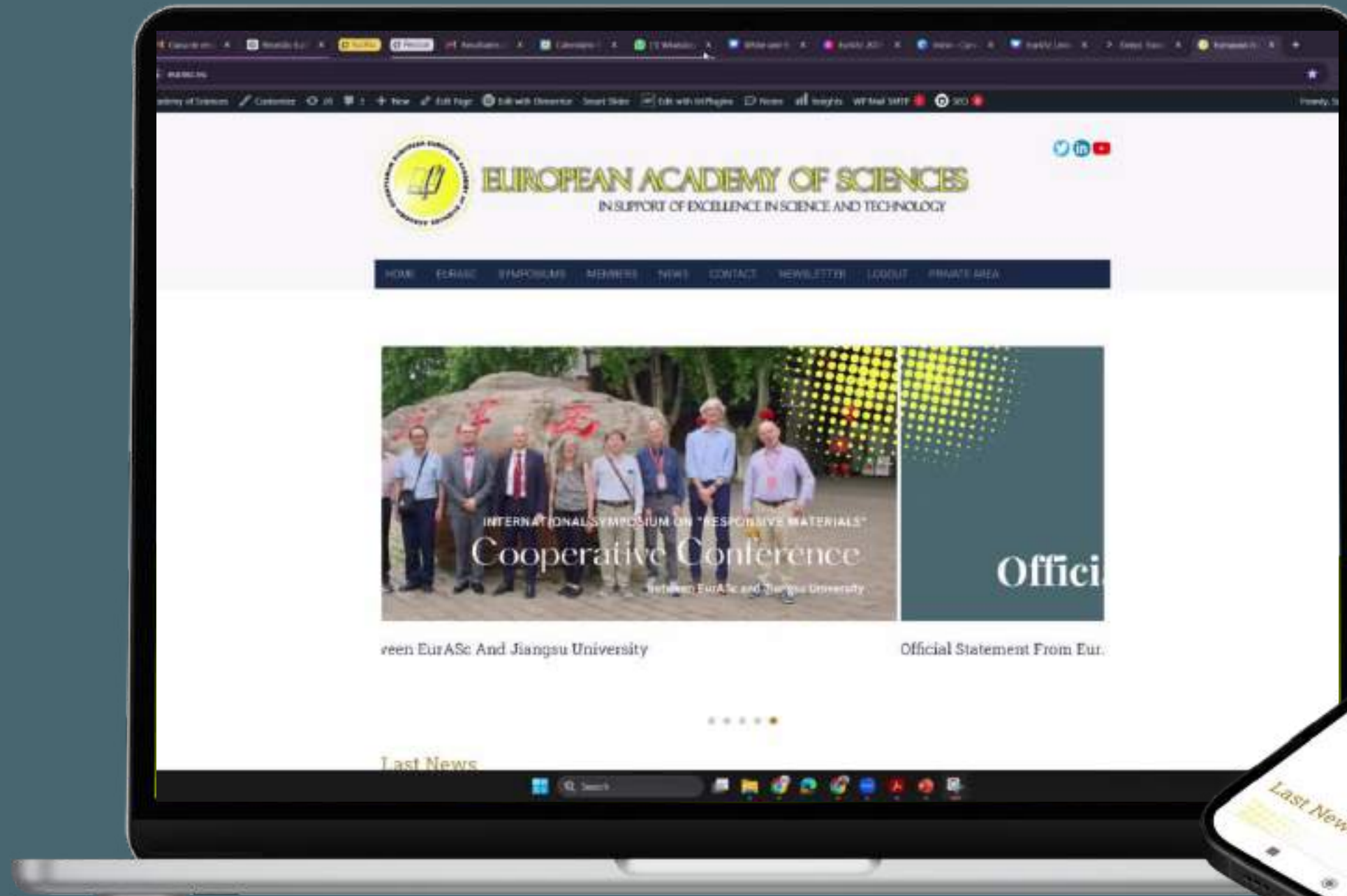
**Sara Oliveira**  
Administrative Secretariat



**Luís Milhano**  
Financial Administrative

EurASc is managed remotely and efficiently by its administrative team,  
striving to address all situations as promptly as possible.





[www.eurasc.eu](http://www.eurasc.eu)



[european-academy-of-sciences-b938b010a](https://www.linkedin.com/company/european-academy-of-sciences-b938b010a)



[@EurASC0](https://www.youtube.com/@EurASC0)

**thank you!**

