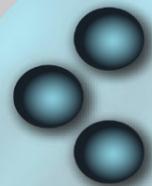
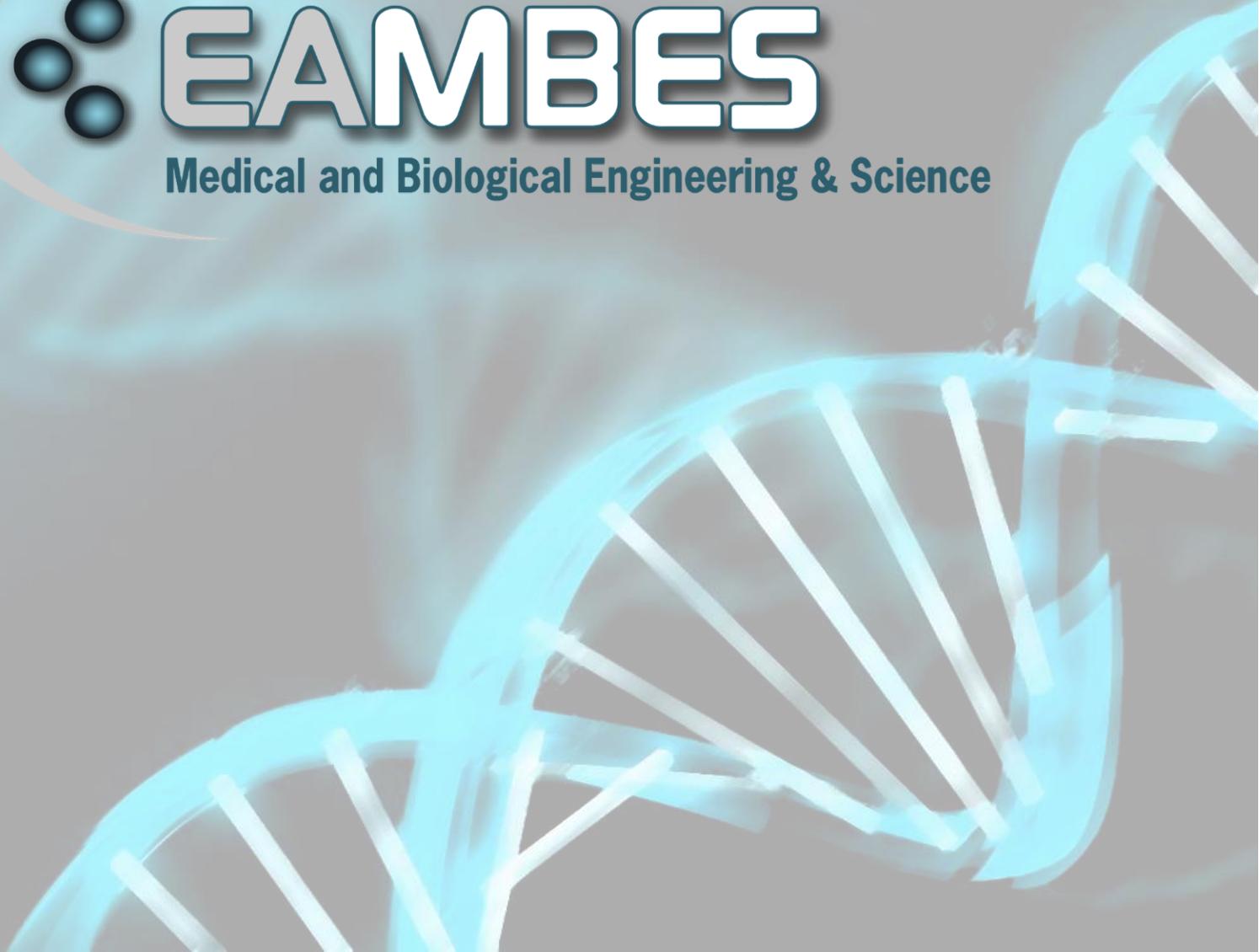


EAMBES 2025: State of the Alliance



European Alliance for
EAMBES
Medical and Biological Engineering & Science



**European Alliance for Medical and Biological
Engineering and Science (EAMBES)**

<https://eambes.org/>



EAMBES 2025: State of the Alliance

EAMBES at the crossroads of science, technology, and society

Assuming the role of President of EAMBES is not only a privilege, but also an opportunity to reflect on the path and potential of our community. Biomedical engineering, though long established, continues to reveal new dimensions of its value for healthcare and for society. It is a field that quietly yet powerfully bridges science, technology, and patient care.

Over the past years, we have witnessed how essential this bridge has become. From moments of global crisis to the ongoing pursuit of sustainable health systems, the contribution of biomedical engineers has been both vital and transformative. Wherever healthcare technologies touch the lives of people, there lies the unique expertise of our profession – ensuring that innovation serves not just progress, but humanity.

In this light, EAMBES carries a special role. It stands as a platform where professionals, associations, and institutions come together to strengthen the scientific foundations of our field, to nurture innovation, and to engage in dialogue that informs policies shaping the future of healthcare in Europe. The Alliance's history since its establishment in the early 2000s shows how collective effort can create a critical mass of knowledge and influence, paving the way for even stronger impact ahead.

A Prestigious Scientific Corridor: Our Members

EAMBES stands as a formidable collective that covers almost all countries across Europe, as defined by the WHO European Region. Our alliance unites 69 members, of which 28 national, 5 transnational scientific societies, alongside 36 academic and research institutions, representing a total of approximately 8,000 European experts.

The true power of EAMBES lies in the unrivaled richness of our member profiles. We are a multidisciplinary tapestry of eminent scholars (Fellows), researchers, and clinical engineers whose expertise spans critical domains such as clinical engineering, biorobotics, neuro-engineering, medical informatics, digital health, and health technology assessment.

Our members do not only work in academia; they are practitioners in hospitals, regulatory bodies, and international agencies like the United Nations and World Health Organization. This unique blend of profiles enables us to bridge the gap between the bioengineers developing disruptive technologies and the clinical engineers ensuring their safe, resilient, and effective implementation within healthcare systems.

Looking to the future, the vision is to further grow this community – broadening participation, deepening collaborations, and ensuring visibility in the arenas where decisions are made and opportunities emerge.

Priorities for the coming term are:

- ◆ To grow our alliance — in numbers, geography, and diversity.
- ◆ To deliver value that is real, tangible, and relevant to every stage of a member's career.

- ◆ To represent scientific excellence not in isolation, but in dialogue with policy, innovation, and society.

Biomedical engineering is uniquely placed to support a shift towards preventive, patient-centered, and technology-enabled health systems. Strengthening our voice means strengthening the health and well-being of the people we ultimately serve.

EAMBES will continue to be a place where science meets practice, where policy meets innovation, and where the future of healthcare is quietly but decisively shaped.

In an era marked by health system transformation, digital disruption, and growing societal expectations, biomedical engineering must become more than a technical field. It must be a bridge. A translator. A force for equity. And EAMBES must be its voice.



Join the EAMBES Community - Become a Member Today!

The **European Alliance for Medical and Biological Engineering & Science (EAMBES)** invites you to join a community of professionals shaping the future of biomedical engineering in Europe. Membership connects you with leading researchers, clinicians, educators, and industry innovators, providing opportunities for **collaboration, professional growth, and visibility**.

To suit the diverse needs of the biomedical engineering community and the rich variety of member profiles, EAMBES provides two primary institutional membership categories:

1. National or Trans-European Scientific Societies Unite your members within a **prestigious scientific corridor** that represents approximately **8,000 European experts** and constitutes half of the global community within the IFMBE. Membership empowers your society to act as a **decisive voice in European policy-making**, engaging directly with the **European Parliament Interest Group (EPIG)** to shape landmark regulations such as the AI Act, the Medical Device Regulation (MDR), and the European Health Data Space (EHDS).

2. Academic, Research, or Healthcare Institutions Connect your faculty, researchers, and biomedical engineers to a **"quintuple helix" collaboration** that links academia, industry, and policy-makers to accelerate the translation of disruptive research into resilient clinical care. Your institution will gain a platform to participate in **high-level EU projects** and lead dedicated task forces focused on the **harmonization of BME curricula and the formal certification of the profession** within hospitals across Europe.

Membership is your gateway to **professional development, networking, and active participation** in Europe's biomedical engineering ecosystem.

Apply for an EAMBES Membership Today: <https://eambes.org/members/>

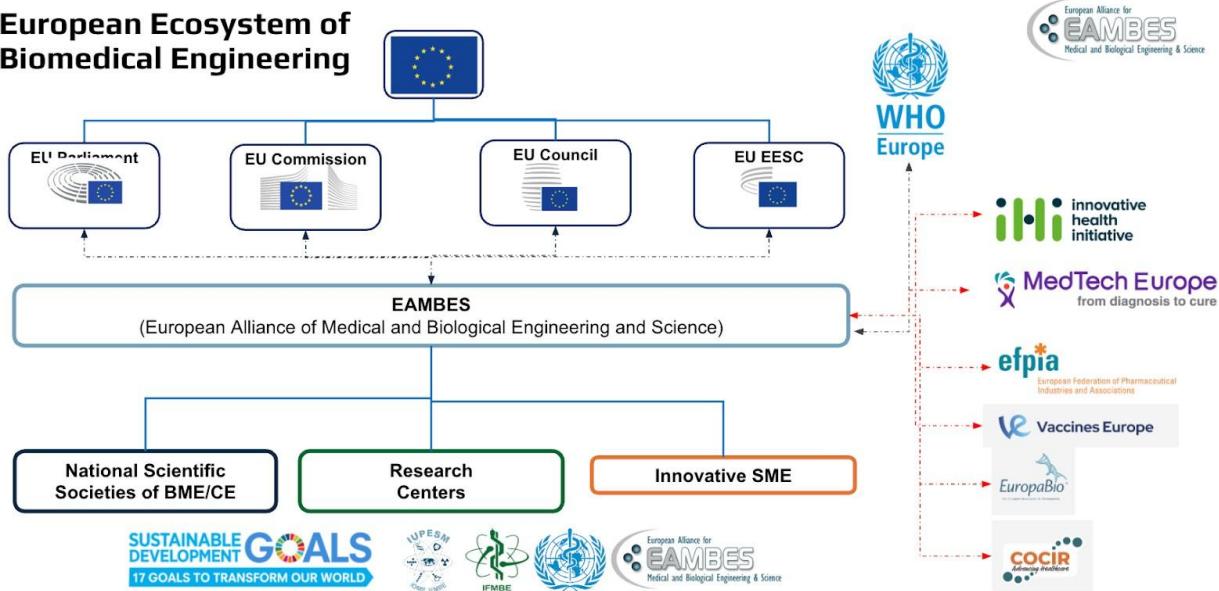
Join EAMBES and help drive innovation, collaboration, and impact in biomedical engineering!

Assoc. Prof. Dr. Giuseppe Fico (President), Dr. Davide Piaggio (Secretary General), Prof. Dr. Eleni Kaldoudi (Past President), Prof. Dr. Ratko Magarević (VP Membership and Outreach), Dr. Manuela Appendino (Treasurer), Prof. Dr. Lejla Gurbeta Pokvić (President Elect), Prof. Dr. Leandro Pecchia (VP Public Affairs)

EAMBES - The European ecosystem of Biomedical Engineering and Science

The European Alliance of Medical and Biological Engineering and Science (EAMBES) science, policy, and innovation.

European Ecosystem of Biomedical Engineering



The European ecosystem of biomedical engineering is shaped through strong collaboration between science, industry, and policy.

In this process, **EAMBES** connects national societies, research centers, and innovative companies with European institutions, international organizations, and industry associations. This ensures that the voice of biomedical engineers is heard in the European Parliament, the Commission, and the Council, while also building bridges with WHO Europe and partnerships that shape the future of healthcare.

Another important dimension of the ecosystem is **the network of European health industry associations and initiatives**. These include alliances in pharmaceuticals, biotechnology, vaccines, medical technologies, and healthcare IT, as well as partnerships that finance innovation across the continent. **Their presence highlights that biomedical engineering, through EAMBES, extends beyond academia and research.** It enters into dialogue with industry, engages in strategic collaborations, and helps ensure that innovation is translated into tangible benefits for patients and society.

This network of connections shows that biomedical engineering goes beyond laboratories and stands as a vital driver of innovation, sustainable development, and the modernization of healthcare systems in Europe.

Policy Spotlight: Strategic Autonomy and Competitiveness of EU MedTech

European Parliament | Tuesday, 25 March 2025 | [Event details](#)

In 2026, the **European Parliament Interest Group on Biomedical Engineering (EPIG BME)** will turn **10 years old**. **Ten years of dialogue with European Institutions and global stakeholders, which enriched our community and EU Policymakers.**

A defining moment of 2025 was the **5th EPIG BME** meeting, held on **March 25, 2025**. The event focused on **"Strategic Autonomy and Competitiveness of the EU MedTech Sector,"** positioning biomedical engineering as a guarantor of European resilience.

The meeting was hosted by **MEP Nicolás González Casares** (S&D, Spain) and co-hosted by **MEP Laurent Castillo** (EPP, France). We were honored by the participation of key supporters, including **MEP Stelios Kympouropoulos** (Greece) and **MEP Tomislav Sokol** (Croatia), alongside high-level speakers from the **World Health Organization (WHO)** and **MedTech Europe**. This dialogue successfully reinforced our commitment to linking scientific advancements with political priorities, ensuring our community remains a decisive voice in shaping **EU health and digital policies**, including the **AI Act** and the **European Health Data Space (EHDS)**.

EAMBES members contributed to the debate by highlighting:

- The role of cutting-edge research and innovation ecosystems in securing Europe's leadership.
- The importance of reducing dependency on non-EU technologies while fostering open collaboration.
- How biomedical engineering bridges science, industry, and patient care, ensuring that technology serves real societal needs.

For EAMBES, this was another opportunity to ensure that the biomedical engineering community has a strong voice in European policy-making - and to reinforce our commitment to linking science with political and societal priorities.



For its 10 years, in 2026, the EPIG BME is planning two new events:

- A first one on AI adoption gap in healthcare: what can we do to make EU the center of AI renascence
- A second one on sustainability, also from environmental prospective, of Health Technologies

2026 will be a crucial year also for defining the role of Biomedical Engineering in the forthcoming EU research framework. Will BME gain a dedicated ERC Pannel? This is all open for discussion and we will ensure EAMBES maximal attention on this important goal, which would bring EU at the center of the ongoing global process of renascence of health and technology, ensuring the centrality of citizens and their rights into the innovations process, as well as European competitiveness.

EAMBES governance (2025–2027)

In March 2025, our newly elected **Executive Board** assumed its strategic mandate, bringing a commitment to geographical and professional diversity. Led by **President Assoc. Prof. Dr. Giuseppe Fico** (Spain), the board includes **Dr. Davide Piaggio** (Secretary General, UK), **Dr. Manuela Appendino** (Treasurer, Italy), **Prof. Dr. Eleni Kaldoudi** (Past President, Greece), and **Prof. Dr. Lejla Gurbeta Pokvić** (President-Elect, Bosnia and Herzegovina). Supported by Vice Presidents **Prof. Dr. Ratko Magjarević** and **Prof. Dr. Leandro Pecchia**, by our Technical Manager **Kalliroi Stavrianou**, and our Administrative Manager **Eve Kyriakou**, the board has spent this past year working to deliver tangible value to members while amplifying our voice within European institutions.

The new council renovated during our General Assembly, is the following:



Throughout 2025, 1 General Assembly, 5 Executive Boards, 5 Council Meetings, 4 Presidential Management Office meetings took place.

EAMBES Council meetings have evolved from strategic lobbying in London to defining a **new governance model** in 2025. In March 2025, the Council unanimously elected a **new Executive Board** led by President Giuseppe Fico. A **Presidential Management Office (PMO)** was established to reinforce structured

organizational practices and professional task delivery. Specialized committees were reorganized with **structured work plans and clear performance indicators** for the 2025–2027 term. Deliberations have consistently prioritized **lobbying the European Parliament**, resulting in the successful establishment of the EPIG BME. The Council initiated a formal mandate to address the **certification of biomedical engineering as a regulated profession**. Decisions were made to lead the **harmonization of BME curricula** for engineers operating within hospitals and healthcare institutions. Strategic priorities for 2026 focus on **policy influence and advocacy** regarding the AI Act and Medical Device Regulations. Recent meetings have successfully expanded **outreach and digital visibility**, supported by our technical manager **Kallirroi Stavrianou**.

This allowed us to set the vision, committees, and objectives not only for the 2025-27 period but also for the years to come, in close collaboration with elected president **Lejla Gurbeta**.

The 2025-27 Strategy: Committees, Objectives, and KPIs.

Biomedical engineering belongs where it matters most - with patients, citizens, and communities. At EAMBES, we're making sure science serves people, where and when it truly counts: to implement our strategic vision for the 2025–2027 term, EAMBES has organized its activities through several specialized committees, a project management office and an ethics board.

They are described below, but most importantly, we are now opening them to our members. Recruitment will start in January 2026, so stay tuned!

Project Management Office

This office is responsible for ensuring the coordinated and efficient management of all alliance tasks in alignment with strategic priorities. The team consists of **Laura López Pérez, Beatriz Merino, Pedro Checa Rifa, Krunoslav Jurcic, Maria Elisabetta Pagnano, Dena Durakovic, Sara Giordanino, Amina Radoncic, and Kallirroi Stavrianou**. Their primary objective is to build institutional project management capacity and improve the success of task delivery. Success for this team will be measured by the finalization of governance workflows and the establishment of comprehensive task-tracking and reporting tools.

Ethics Board

Led by **Alessia Maccaro**, this board provides ethical guidance to ensure all biomedical engineering activities are transparent and socially aligned. Their main objective is to embed ethics into all alliance policies and promote responsible research and innovation. **A key milestone for this group in 2026 will be the drafting and formal adoption of an official EAMBES Ethics Procedure, with the aim of positioning EAMBES to provide structured ethics guidance and opinions in the context of trials and experimental research.**

Regulatory Affairs Committee

This committee provides essential expertise on European regulatory frameworks affecting medical devices and health technologies. The current members include **Winfried Mayr, Giuseppe Fico, Lejla Gurbeta Pokvić, Carmelo De Maria, Alessia Maccaro, Krunic Jurcic, and Florinda Coro**. Their objective is to position the alliance as a trusted regulatory voice at the EU level and build long-term engagement with regulators and notified bodies. A primary indicator of their progress will be the publication of a comprehensive White Paper focused on Medical Device Regulation in the age of Artificial Intelligence.

Membership and Outreach Committee

Chaired by **Lejla Gurbeta Pokvić**, supported by our VP **Ratko Magjarevic**, with a membership including **Timo Jamsa, Manuela Appendino, Erik Schkommodau, Carmelo De Maria, Mercedes Barrachina, Dena Durakovic, and Beatriz Merino**, this group focuses on strengthening and expanding our community. Their objective is to grow the alliance's presence across Europe and beyond while enhancing the value delivered to existing members. Their progress will be demonstrated by a tangible increase in membership numbers and the successful launch of the EAMBES WhatsApp Community.

Training, Education, and Early Career Committee

This group is chaired by **Davide Piaggio** and includes members **Lenka Lhotska, Manuela Appendino, Jari Hyttinen, Mark Van Gils, Alessia Maccaro, Pedro Checa Rifa, Kruno Jurcic, Jan Havlik, and Kerstin Lenk**. Their mission is to support capacity building by developing educational initiatives that align with European healthcare needs. The successful delivery of their goals will be marked by the launch of the EAMBES YouTube seminar series.

Open Innovation Committee

Under the leadership of **Giuseppe Fico**, and members **Winfried Mayr, Erik Schkommodau, Marcus Granegger, Laura Lopez, and Beatriz Merino**, this committee promotes the translation of research into market-ready solutions. Their objective is to foster a collaborative ecosystem between academia, industry, and innovation networks. To achieve this, the committee is working toward the creation of a comprehensive map of the innovation ecosystem and a new directory of members and fellows.

Public Affairs Working Group

This group is chaired by **Leandro Pecchia** and composed of **Lejla Gurbeta Pokvić, Eleni Kaldoudi, Jari Hyttinen, Timo Jamsa, Mark Van Gils, and Maria Elisabetta Pagnano**. Their primary objective is to influence European health and innovation policy by maintaining sustained relationships with EU institutions through the established EPIG interest group. Their impact in 2026 will be defined by the coordination of a high-level advocacy event within the European Parliament.

Diversity, Equity, and Inclusion Committee

Led by Chair **Manuela Appendino**, and members **Lenka Lhotska, Alessia Maccaro, Amina Radoncic, Michal Huptych, Prof. Federica De Stefani, Prof. Sandra Morano, and Prof. Sonia Melchiorre**, this group works to ensure fair representation across all alliance structures. Their goal is to foster an inclusive culture and position EAMBES as a role model for diversity in STEM. Progress in this area will be measured by the implementation of the EAMBES Inclusivity Plan and the hosting of specialized webinars.

Constitution and Bylaws Committee

Chaired by **Jari Hyttinen** and supported by **Timo Jamsa and Leandro Pecchia**, this group oversees governance documents to ensure organizational clarity and compliance as the alliance grows. Their primary objective is to align governance with organizational development, with progress shown through continuous guidance and the regular oversight of compliance matters.

A special objective asked by our members and national societies. Advancing the Profession: Certification and Curricula Harmonization

During my interactions at various national society conferences this year, a clear mandate has emerged from our members: EAMBES must lead the certification of biomedical engineering as a regulated profession and the harmonization of BME curricula for engineers in hospitals and healthcare institutions. Standardizing professional competencies is vital for ensuring that the European BME workforce is recognized for its technical and clinical authority. In response, we are creating a dedicated **Working Group** and specific **Task Forces** through our specialized committees. These groups will define European professional standards and educational frameworks, ensuring our profession is recognized as an independent discipline across the EU.

EAMBES Fellows: activities and new appointments

The EAMBES Fellows community continues to play a central role in advancing scientific excellence, leadership, and international visibility of biomedical engineering across Europe. In 2024, Fellows actively contributed to EAMBES' mission through high-level scientific engagement, strategic initiatives, and representation at major international fora.

Fellows participated in invited workshops hosted in Milan and London, fostering dialogue between academia, industry, and institutional stakeholders on emerging challenges in biomedical engineering. They also delivered keynote lectures at leading European conferences and strengthened internal coordination during major international meetings. In parallel, several Fellows supported strategic initiatives aligned with EAMBES priorities, such as contributions to the EMBEic project, reinforcing the Alliance's commitment to capacity building and harmonisation of biomedical engineering education and practice.

In 2025, EAMBES appointed seven new Fellows, following a structured and transparent election process. The newly elected Fellows reflect the breadth, interdisciplinarity, and societal relevance of biomedical engineering:

- **Prof. Leena Ukkonen (Tampere University, FI)** – Recognised for contributions to wireless wearable and implantable technologies, particularly advanced antenna design.
- **Prof. Simo Saarakkala (University of Oulu, FI)** – For significant advances in multiscale musculoskeletal imaging, biomechanics, and early diagnosis of osteoarthritis.
- **Prof. Michalis Zervakis (Technical University of Crete, GR)** – For contributions to neuroengineering, medical imaging, and AI-driven healthcare applications, including epileptic seizure detection.
- **Dr. Despina Moschou (University of Bath, UK)** – For leadership in translating lab-on-chip bioanalytical microsystems into clinical and patient-centred solutions.
- **Prof. Richard Bayford (Middlesex University, UK)** – For contributions to biomedical imaging (EIT), bio-modelling, nanotechnology, and biosensors.
- **Prof. Luca Dedè (Politecnico di Milano, IT)** – For pioneering work in computational biomedical engineering, including cardiac modelling and digital twins.
- **Prof. Ratko Magjarević (University of Zagreb, HR)** – For long-standing international leadership and efforts toward global harmonisation of biomedical engineering.

Through their scientific achievements, leadership, and engagement in strategic initiatives, EAMBES Fellows remain a key asset for the Alliance, supporting its role as a reference point for excellence, innovation, and impact in biomedical engineering across Europe and globally.

Finally, the Fellows elected the new Fellow Committee. The composition of the EAMBES new Fellows Committee is **Prof Pecchia Leandro (Chair), Prof Marios Pattichis, Prof Karin Wårdell, Prof Leena Ukkonen, Prof Jari Hyttinen and Prof Olof Lindahl**.

EAMBES expresses sincere gratitude for the work done by Prof Panicos Kyriacou, past Committee Chair. Under his mandate, the Chapter had a continuous growth and intensification of activities. We hope EAMEBS Fellows will continue to serve as models for the generation of EU and international early career BMEs.

Where We've Been: Conference Highlights

Over the past months, EAMBES members have been actively present at some of the most significant gatherings in biomedical engineering, from regional hubs of innovation in Europe to the global stage in Australia. These conferences were not only about presenting science, but also about shaping discussions, strengthening networks, and making sure that Europe's voice continues to resonate worldwide.

The IUPESM World Congress 2025 on Medical Physics and Biomedical Engineering

Adelaide | September 2025 | wc2025.org

Global voices. Shared vision.

The **IUPESM World Congress 2025 (Adelaide, Australia)** in September/October was a pinnacle moment for our global presence.

EAMBES joined thousands of colleagues to contribute European perspectives on digital health and future technologies.

We are proud to announce that several **European EAMBES members** have been elected to critical leadership roles within the **IUPESM and IFMBE**. As European societies represent approximately **half of the global BME community**, our delegates are now steering the international agenda for the coming years, ensuring that the **European voice** remains the central nervous system of global biomedical engineering governance.



The North Baltic Conference and Polish Conference on Biocybernetics and Biomedical Engineering 2025

Warsaw | June 2025 | <https://nbc2025.ibib.waw.pl/>

Engineering the Future of Health.

The **North Baltic Conference and the Polish Conference on Biocybernetics and Biomedical Engineering 2025 (NBC 2025 & PCBEE 2025)** represented a significant milestone for EAMBES' regional and strategic engagement in Europe. The conferences provided a high-level forum for dialogue among researchers, clinicians, engineers, and policy-oriented stakeholders across the Baltic and Central European biomedical engineering ecosystem.

EAMBES played a proactive and visible role by **organizing a dedicated joint symposium with IEEE EMBS**, reaffirming the Alliance's leadership in shaping the European biomedical engineering agenda. The EAMBES-led session addressed the **State of the Alliance and strategic priorities for 2025–2026**, alongside key initiatives in **public affairs, outreach, and actions toward diversity, inclusiveness, and equity**, and was complemented by contributions from the IEEE EMBS Poland Section.

As well, our President and President Elect, engaged in **IFM&BE Administrative Council** and **Council of Societies** meetings, sharing EAMBES' activities and strategic vision, which have since been further considered and acted upon by both the former and new IFM&BE Board and Administrative Council.

Bern, Switzerland | September 2025 | bmt2025.ch

Three countries. One powerful community of innovation.



At BMT 2025 in Bern, EAMBES members joined colleagues from Switzerland, Austria, and Germany in exploring the frontiers of biomedical engineering. The meeting underlined the importance of **cross-border collaboration within Europe**, with sessions ranging from AI in diagnostics to novel therapeutic technologies. The strong representation of EAMBES Fellows and members highlighted the **interconnectedness of national societies and the European community at large**.



CMBEBIH 2025 – Sarajevo, Bosnia and Herzegovina

Sarajevo | 11–13 September 2025 | cmbebih.com

From science to business - in the heart of the Balkans.

In Sarajevo, the 7th International Conference on Medical and Biological Engineering brought together voices from more than 40 countries. EAMBES members played an active role in discussions that connected **research, clinical practice, and entrepreneurship**.



What stood out was the **youthful energy** of the event - young researchers, students, and startups engaging with established leaders. For EAMBES, this was a clear reminder that **Europe's future in biomedical engineering is being shaped not only in its traditional centers, but also in emerging regional hubs like the Western Balkans.**



XLIII Annual Congress of the Spanish Society of Biomedical Engineering (CASEIB 2025)

November 26–28, 2025 | **Granada, Spain**



The **43rd Annual Congress of the Spanish Society of Biomedical Engineering (CASEIB 2025)** successfully took place in the historic city of **Granada**, bringing together the Spanish and international biomedical engineering community for three days of science, innovation, and collaboration.

Organized by the **Spanish Society of Biomedical Engineering**, CASEIB 2025 once again confirmed its role as Spain's leading forum for biomedical engineering, welcoming researchers, clinicians, industry experts, technology developers, and students.

Scientific Program Highlights

The congress featured a rich and multidisciplinary scientific program covering key areas at the interface of engineering, medicine, and technology, including:

- Biomedical imaging and signal processing
- Medical devices and instrumentation
- Digital health and artificial intelligence in healthcare
- Biomechanics and biomaterials
- Computational modeling and simulation
- Wearable and implantable technologies
- Innovation and entrepreneurship in biomedical engineering

Looking Forward: Join the Future of BME

In this era of digital transformation, EAMBES is more than a technical field; it is a **force for equity and a translator of innovation**. We invite you to **turn your skills into impact** by joining our community. Together, we will continue to build a **sustainable, autonomous, and globally engaged** European MedTech sector, ensuring that innovation always serves humanity.

WHAT IS EAMBES?

European Alliance for Medical and Biological Engineering & Science

A non-profit scientific society to promote Biomedical Engineering (BME) and Medical and Biological Engineering and Sciences (MBES) in Europe.

Members are eminent scholars (EAMBES Fellows), National and international scientific societies, hospitals, universities or research institutions across Europe. Today, EAMBES counts 33 national & transnational societies and 36 academic and research institutions, and through them, thousands of biomedical engineers and scientists working in research and higher education or in hospitals (i.e., clinical engineers) in Europe. EAMBES is also affiliated to the International Federation of Medical and Biological Engineering (IFMBE), which is member of the International Union for Physical and Engineering Sciences in Medicine (IUPESM). EU BME societies represent the half of IFMBE members circa, and therefore the half of global BME and MBES community. This is a great honour, but also a great responsibility. Yet, we feel that we can do more to support global health and wellbeing. In fact, IFMBE is an NGO in official relations with the UN WHO, while the IUPESM is a member of the International Council of Science (ICS), which is the UN UNESCO umbrella organization fostering sciences. Many EAMBES members have been serving the UN, as independent consultants, or via IFMBE Divisions and working groups¹.



EAMBES VISION

Medical and biological engineering and science are major enablers of modern medicine, which has made its main advancements in the past decades mainly because of the main output of BME.

Our community has direct impact on quality of life, safety and cost-effectiveness of healthcare services, with our effort in research, innovation, assessment, procurement and management of biomedical engineering main products, which are biotechnologies and medical technologies (MedTech) such as medical devices, personal protective equipment and digital health.

¹ Further details on BME and UN collaboration (WHO and ILO), can be read:

<https://www.sciencedirect.com/science/article/pii/S135045331930164X>