



Newsletter

of the European Society for Artificial Organs

Letter from the President

ESAO Newsletter
September
2021

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Edited by:
Pedro M. Baptista

Dear Members of the European Society for Artificial Organs,

I am very pleased to present the second issue of the ESAO Newsletter in 2021, which was edited by **Pedro Baptista**, Secretary General of ESAO. I hope you will find this Newsletter useful in keeping you informed about recent developments and future events concerning our Society.

On February 24-26, our **Winter School** co-organized, for the first time, with the European Chapter of Tissue Engineering & Regenerative Medicine Society (**TERMIS-EU**) took place online (virtually in Jaca, Spain). The topic of this event was *"The Bionic Human: Biomaterials, (Bio)Artificial and Bioengineered Organs, and Cybernetics for the Future of Regenerative Medicine"*. The Winter School was organized by **Pedro M. Baptista** (Zaragoza, Spain). The program of the school included sessions devoted to current developments in organoids and stem cells, biomaterials and bioprinting, bioartificial and bioengineered organs, cardiovascular implantable medical devices as well as cybernetic technologies and human integration. A special session on bioartificial kidneys was the last session during this inspiring and perfectly organised event. I take this opportunity to express my gratitude to Pedro Baptista, all members of the scientific committee as well as speakers of the Winter School.

In just a few days, on September 7, 2021, the long-awaited **ESAO Annual Congress** will begin. It will start with a **yESAO activity** followed by two and a half days filled with plenary lectures, regular oral and poster sessions, and special symposia. A virtual trade exhibition will be held alongside the Congress. The Congress will be held from September 7 to September 11 online (virtually in London). The motto of the Congress is *"Unification of scientific minds towards permanent artificial organs"*. The Congress is organized by **Ashraf W. Khir** of Brunel University and his team. Ashraf Khir convinced a few prominent scientists to give keynote lectures during the Congress, including Professors: **Anthony Atala** (Wake Forest University, USA), **Peter Walter** (University Hospital RWTH Aachen, Germany) and **James Antaki** (Cornell University, USA). The details on the Congress are available at: esao2021.org. In 2021, **Heinrich Schima**, who for several decades served as Governor, Secretary General, President and recently Co-opted Board Member, bids farewell with his participation in the ESAO Board. Over these years, Heinz has had a positive, significant and multi-dimensional influence on the activity and development of ESAO. While expressing my deep appreciation for his achievements, I hope that he will still remain an active member of our Society, whose advice and help we will always be able to count on.

Ares K. Menon, who has represented the Corporate Members on the ESAO Board, will hand over the position to **Daniel Medart**. I would like to express my gratitude to Ares for his strong commitment to ESAO, his activity on the

Board, all the ideas he shared with us and the actions he took to make our Society more attractive to institutions and corporations concerned with artificial organs. I welcome Daniel as a new representative of the Corporate Members, and I look forward to work with him.

Arianna Di Molfetta and **Joachim Jankowski** are finishing their second term as ESAO Governors this year. Thank you to Arianna for representing cardiovascular engineering in the Board. Thank you very much to Joachim for valuable contribution and skilfully combining the duties of a Governor and the Chairman of the Uremic Toxins Working Group. I am convinced that now the activity of EUTox WG, which has been very high so far, will increase even more.

In this year's **ESAO Elections** we vote for the President Elect and up to 3 ESAO Governors. **Ulrich Steinseifer** is a candidate for the ESAO President Elect position, and **Sebastian V. Jansen**, **Ulrich Kertzsch**, **Gerd Klinkmann** and **Alesandra Molteni** run for three available Governor positions. I would like to express my gratitude and appreciation to **Alesandra Molteni** for her engagement, dedication and trustworthiness during her first term as a Governor, and I am grateful that she decided to run for the second term.

The fourth wave of the COVID-19 pandemic has already begun in some countries. Therefore, the Executive Committee decided to launch online voting as a substitute for in-person voting at the ESAO Congress and not to organize voting by regular mail. Online ballot collection has started and will run until midnight (CEST) on September 8, 2021. ESAO members who wish to vote and who have not received an email with a link to the online voting form and authorization token, please leave a message at esao2021@ibib.waw.pl.

In 2021, we continued contacts with the European Society for Organ Transplantation (ESOT) and TERMIS-EU. These contacts have been initiated during the Presidency of **Cécile Legallais** to establish partnership with both organisations. As a result, I had pleasure to sign on behalf of ESAO the Memorandum of Understanding with ESOT on February 9, 2021, and with TERMIS-EU on June 29, 2021. Within the framework of MoU with ESOT, **Dimitrios Stamatialis** co-organised an ESOT-ESAO session on bioartificial organs during the ESOT Congress in Milan on August 31, 2021, and **Cristiano Amarelli** from ESOT co-organises an ESAO-ESOT session on new challenges in organ replacement during the ESAO Congress on September 10, 2021. I would like to inform you also that **Nuno Neves** was appointed the ESAO Coordinator to supervise the execution of MoU between TERMIS-EU and ESAO.

On March 18, 2021, our Society launched a series of educational webinars on artificial organs. This initiative is realized together with IFAO, ASAIO and JSAO. The webinars are coordinated by **Gloria Gallego-Ferrer**, **Thomas Groth** and **Viktoria Weber**. These events are organized on every third Thursday monthly at noon (CEST) except summer holidays.

As with any communication with ESAO members, I would like to encourage you to consider the **International Journal of Artificial Organs** as a medium for disseminating your scientific results or publishing a review article. **Andrea Remuzzi**, the Editor-in-Chief of IJAO together with the Editorial Board make every effort to maintain high quality and improve the position of the journal. This year the Impact Factor of the Journal increased to 1.595, and it is up to us whether it will continue to grow. Two years of my presidency in ESAO was a difficult time not only for the Society, but on a global scale. The COVID-19 pandemic has resulted in the deaths of many people, and it has forced everyone to change the way we live and act. This also applied to our Society, where we had to pay our last respects to a few prominent members of our community. We had to postpone, for the first time in history, the ESAO Annual Congress in 2020, and change the way of organizing our other activities. However, ESAO has dealt effectively with these challenges, demonstrating its viability and flexibility.

On September 10, 2021 during the online ESAO General Assembly, **Viktoria Weber** will take over the Presidency of our Society. Taking this opportunity, I would like to thank the ESAO Executive Committee, all the Governors and Board members, Chairmen of the working groups, ESAO Office in Krems, yESAO Coordinators and the Core Team and all the active ESAO members for their continued support and assistance in the management of the Society, and adaptation to new conditions.

I am convinced that I hand over the ESAO Presidency in the right hands, and I declare my continued commitment and all assistance in the further development of ESAO.

With warm regards,
Piotr Ladyzynski, President

ESAO Elections

This year, the ESAO elections will be run exclusively online. To vote, you should have received a link by email with all the details necessary. In case you did not, you're still on time to ask for a link to the online voting system by sending a message at esao2021@ibib.waw.pl. You can provide your vote until midnight (CEST) on September 8, 2021.

This year, there are three Governor positions available for the Board of Governors (with 4 candidates available: Sebastian V. Jansen, Ulrich Kertzsch, Gerd Klinkmann and Alesandra Molteni) and we have to vote for the President Elect (Ulrich Steinseifer).

Please take a look at their CVs with all the details, which were sent to you by email by Anita Aichinger.

Candidates for Governors of the Board of ESAO



Sebastian Jansen (Germany) is the Chief Engineer & Deputy Head at the Department of Cardiovascular Engineering at the Institute of Applied Medical Engineering of the Helmholtz Institute from RWTH Aachen University, Germany. He's been a member of ESAO since 2014 and a recipient of the Silver PhD-Award of the ESAO.

Ulrich Kertzsch (Germany) is the Head of the Biofluid Mechanics Laboratory at Charite – Universitätsmedizin in Berlin, Germany. He has long been involved with ESAO as a member and former Treasurer. He is the recipient of several scientific awards (e.g. Innovation Award Medical Engineering, Innovation Award Bionics).



Gerd Klinkmann (Germany) is a medical doctor at the Department of Anesthesiology and Intensive Care Medicine of the University Medical Center of Rostock, Germany. He works as an intensive care doctor with a deep interest in artificial organs, blood purification, sepsis biomarkers and low-temperature physical plasma.

Alessandra Molteni (UK) is the Transformation Management Lead – Operations at ConvaTec. She was the coordinator of the yESAO between 2016-2019 and a member of the Board of Governors since 2018. She is currently running for her second term.



President Elect



Ulrich Steinseifer (Germany) is a Full Professor of Cardiovascular Engineering and the Deputy Chair & Head of the Cardiovascular Engineering Group at the Helmholtz Institute of RWTH Aachen University, Aachen, Germany. He has been involved with ESAO since 2005 and as a Governor from 2009 until 2015. He is the recipient of multiple national and international awards.

ESAO Meeting 2021 over the Clouds of London

ESAO 2021 begins next week. A wonderful event to look forward to. Not only as a scientifically rich, and exciting conference, but also to meet old colleagues, make new friends of like-minded people who share - at least – passion for artificial organs and improving patient's quality of life.

If you have not yet registered to attend ESAO 2021 next week, there is still time to do so.

www.esao2021.org/registration

Attached you will find why you should seriously consider and not miss out!

If you have registered – the organising committee and I look forward to welcoming you next week.

Until then, stay dry if you are in the US East Coast and stay safe if you are in Europe or anywhere else on the map!

Ashraf Khir, Congress President



47th ESAO Congress
Hosted on the clouds of
Brunel University London

Uniting Scientific Minds
Towards Lasting Artificial Organs



European
Society for
Artificial
Organs

Plenary Speakers

1. Prof Anthony Atalla, Wake Forest University, USA.

Regenerative Medicine: Current Concepts and Changing Trends

2. Prof Peter Walter, Aachen University, Germany.

On Artificial Vision

3. Prof James Antaki, Cornell University:
Heart Assistance for Heart Ache: What is new is old.

Confirmed Speakers

1. **Dr Bob Kormos, Thoratec Incorporation, USA:** Long term cardiac support: what is missing?
2. **Dr Pieter Kappetin, CMO, Medtronic, USA:** The legacy of HVAD
3. **Dr Murray Sheldon, FAD, USA:** Developing wearable and implantable kidney replacement.
4. **Prof Bart Meyns, Belgium:** Epidemiology of congenital heart disease
5. **Prof Thierry Berney, Switzerland:** Current issues in pancreas transplantation: clinician's view
6. **Prof J. Spillner, Germany:** Experience of Extracorporeal Oxygenation in COVID-19 Patients
7. **Dr Michael Zilbershlag, TelAviv, Israel:** efficiency Vs robustness in transcutaneous power transfer
8. **Dr Fabrizio Di Maria, UK:** VADs for grown up congenital heart disease (GUCH)
9. **Prof Uli Stock, Harefield Hospital, UK:** Managing cardiogenetic shock with VADs
10. **Dr Ahmes L Pahor, UK:** Medicine, Science and Technology in Ancient Egypt.

Industrial Participation

- | | |
|------------------------------------|------------------------|
| - Berlin Heart, Germany | - Adjucor, Germany |
| - MagAssist, China | - Real Heart, Sweden |
| - Abbot, USA | - Livanova, USA |
| - Fresenius, Germany | - Calon Cardio, UK |
| - Chalice Medical and Cytosorb, UK | - Paragonix Technology |
| - Leviticus cardio, Israel | - Medtronic |

Artificial Organs Discussed

- | | | |
|------------------|----------|------------|
| - Heart and Lung | - Kidney | - Pancreas |
| - Eye | - Limbs | - Liver |

Rich Program Features

1. Interactive patient experience session with their patients undergoing LVAD therapy.
2. Oral and poster presentations – all accepted abstracts will be presented and published
3. Best poster prizes for heart, kidney, liver and bioengineering.
4. Plenary and Keynote world renowned speakers at the forefront of their research areas
5. Joint Symposia with international societies: ESAO-IFAO, ESAO-ESOT and ESAO-EuroELSO
6. yESAO – bespoke pre-programme meeting for young investigators
7. Cultural social events – virtual gala dinner – live musical requests
8. Industrial/corporate participation with real life problems/solutions/implications.
9. Manufacturer's forum, Start-ups session and MedTech Innovation in Europe
10. MedTech innovation – the blueprint of transition from academia to industry

yESAO news and online congress 2021

Welcome to this special yESAO Conference edition of the newsletter! Some news about the conference and other yESAO news await you here!

Annual yESAO Conference:

This year we have another remote yESAO and we are excited to share the highlights of our 2 yESAO days!

<http://esao2021.org/wp-content/uploads/2021/09/Final-Programme-and-Book-of-Abstracts-WEB-September-2.pdf>

yESAO Keynotes:

We are super excited to announce the "headliners" of our conference: A trifecta of expertise that we would highly encourage not to miss.

Prof. Wamadeva Balachandran, a native Professor from our Cloudbase at Brunel, will start us off and give us an overview of his research about "Organs on a chip".

Dr. Karolin Helbig, A Biology PhD gone McKinsey Top Consultant. She will talk about the art and science of leadership, sharing what she would have liked to know about (self) leadership when she was still in research.

And finally:

Prof. Ellen Roche, Director of the Therapeutic Technology Design and Development Lab at MIT, will share her cutting-edge research on soft robotics in biomedical applications.

In the unlikely event, that this has not yet motivated you to sign up right away, there is more:

Leadership workshop

Dr. Helbig's insights can be practiced right away in a workshop.

Talk about your method

Sometimes the methods are just as interesting as the results

Career Session

Some of our more senior young ESAOans talk about their experience after their PhD.

Your Research in 3 Minutes

The world has a short attention span, so make it interesting... Is it weird if I get pizza for dinner again tonight? ... Get to know your peers in 3 minutes and also learn to concisely present your own research.

...And of course:

Special Awesome Social Programme!

Cocktail courses, games night and Coffee-roulette, Sign up now if you haven't yet. Best remote conference, I am willing to bet!

yESAO Slack

Previously only reserved for core team member coordination purposes, we have decided to expand our Slack channel! Now all interested young researchers can join our channel. There, you will find opportunities to network with your peers, see what the yESAO is up to and also start discussing your ideas! Join the community with this link: tinyurl.com/g6u3dwxu

yESAO Coordinator

Two new coordinators will take over the reins of the yESAO this year. Every yESAO member has the opportunity to vote for their favorite coordinator or even run as candidate! Join us on slack or write us on yESAO@esao.org if you are interested!

Well, that's it from us for now, we have to get back to prepare for the yESAO where we will hopefully be seeing you!

Best wishes from the yESAO

Ben and Martin

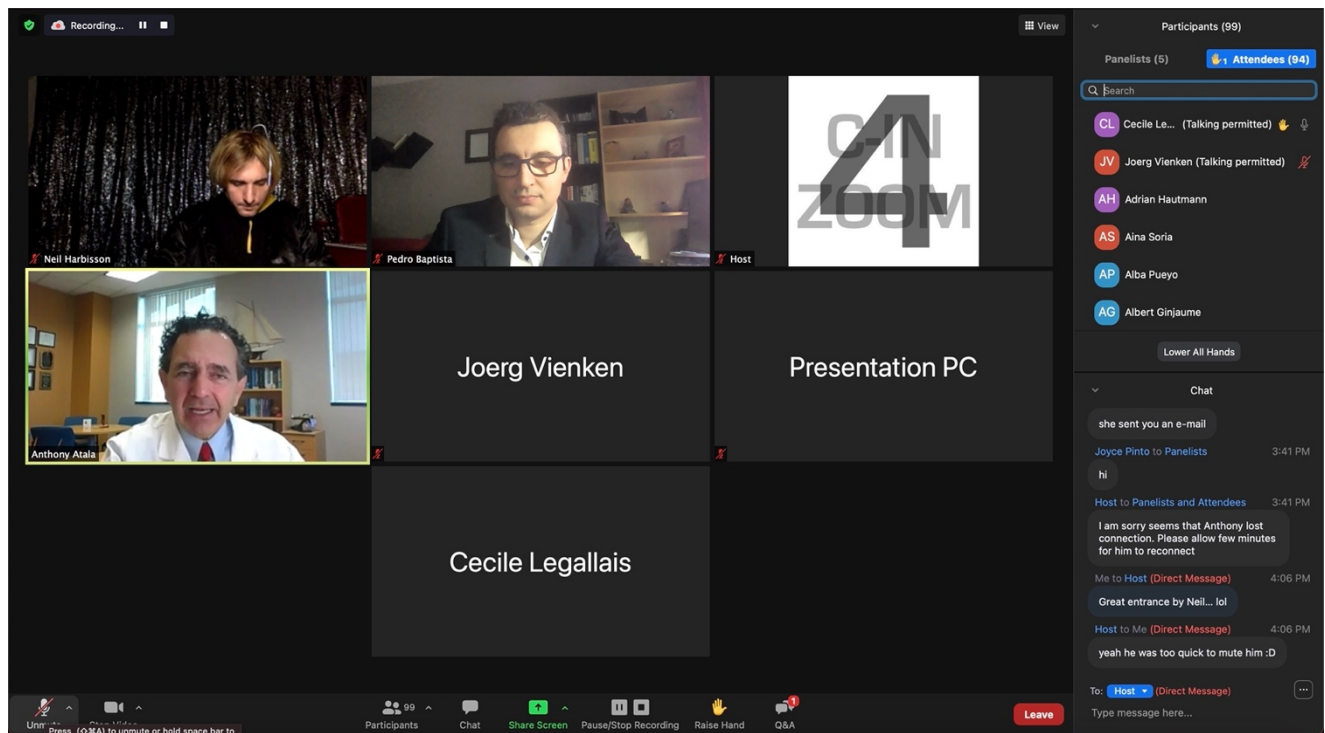
ESAO/TERMIS Winter School 2021 – Jaca (Spain)

Our last Winter School was held virtually over the clouds of Jaca, Spain from February 24-27, 2021 and was organized by Pedro Baptista. The motto of this year's school was "***The Bionic Human: Biomaterials, (Bio)Artificial and Bioengineered Organs, and Cybernetics for the Future of Regenerative Medicine***" and covered the fundamentals in biomaterial science, stem cells and organoids that are making possible the creation and implantation of more complex structures like (bio)artificial and bioengineered organs, and cybernetic parts, enabling the future of regenerative medicine and the generation of Bionic Humans.

This was also the first Winter School co-organized by ESAO and TERMIS, bringing together members from these two societies into one single program, providing a broad view of regenerative medicine and implantable medical parts/devices/organs. There was also a special session organized by

KIDNEW, the Kidney Health Initiative and The European Kidney Health Alliance that went in-depth into the need of new kidney dialysis innovations and implantable (bio)artificial kidneys.

The organizing committee managed to attract world-class speakers from Europe and other continents who gave talks on the state-of-the-art of these different fields.



A good example of this was the first two plenary speakers, Dr. Anthony Atala from the Wake Forest Institute for Regenerative Medicine in the USA and Neil Harbisson, the first legally recognized cyborg from the UK. They gave very impactful talks that generated quite a lot of enthusiasm and interest from the audience, measured by a large number of questions.

The meeting counted with a record number of registrations for a Winter School at 89 participants. The virtual format certainly contributed significantly to this, but also the fact that this event was co-organized by ESAO and TERMIS made a difference.

The meeting also provided a nice platform for presentation of the work of participants during two poster sessions with 3 prizes, that were won by Sohba Karuthedem George (1st Prize), Tara McGuire (2nd Prize) and Adrian Hautman (3rd Prize).

Finally, I want to thank the Scientific Committee (*Cecile Legallais, Piotr Ladyzinski, Bart Spee, Gloria Gallego-Ferrer, Heinrich Schima, Pedro M. Baptista, Martijn van Griensven, Zuzana Koci and Fokko Wiering*) for putting together such a robust program that certainly made the difference to make this a very successful Winter School.

With my best regards,

Pedro M. Baptista

Report on Working Group: Heart Support

The ESAO WG heart is proud to present its special symposium on Ventricular Assist Devices for congenital heart disease during the 47th ESAO Congress @ Brunel University London, Uxbridge, UK (online) on Thursday September 9th from 9.00 to 10.30 British summer time.

- Epidemiology of congenital heart disease (Bart Meyns, KULeuven)
- Experience with pediatric VADs (Daniel Medart, Berlin Heart)
- VAD development for Fontan Circulation (Marcus Granegger, MedUni Wien)
- Animal model and pumping strategies in Fontan circulation (Joeri Van Puyvelde, KULeuven)
- VAD's for grown up congenital heart disease (GUCh) (Fabrizio De Rita, Freeman Hospital Newcastle)

Tom Verbelen and Simon Sonntag

Short report about activities of International Federation for Artificial Organs (by IFAO-Secretary-Treasurer Thomas Groth)

IFAO is the roof organization of continental societies from United States (ASAIO), Japan (JSAO) Asia-Pacific region (APSAO) and Europe (ESAO). The main task of IFAO is to promote transcontinental collaboration in the field of artificial organs, which is related to support of organization of joint IFAO-Continental Society meetings every second year and IFAO Sessions at the annual congresses of continental societies.

This year IFAO was involved in organization and sponsoring of the biannual joint congress of the American Society for Internal Artificial Organs (ASAIO). The IFAO-ASAIO Congress 2021 had to be organized as a hybrid meeting due to travel restrictions for foreigners to United States. The Vice Chairman of IFAO Prof. Heinrich Schima organized the IFAO Session at the meeting on "Worldwide Approaches to Enhanced Monitoring and Control of Blood Pumps" with Dr. Hayward from Sydney, Australia (ESAO), Dr. Maw from Vienna, Austria (ESAO), Dr. Nishimura, from Ehime, Japan (JSAO) and Dr. Timms from Houston, US. Because of the pandemic situation this session had to be pre-recorded and was then placed online. The presentations can be still viewed at <https://asaio.org/conference/>



The next biannual congress of IFAO will be organized together with ESAO in Bergamo in September 2023 with Prof. Andrea Remuzzi as congress president. We are looking forward to this European and worldwide event and hope that situation with pandemic will improve that the congress can be held on site without the currently necessary Covid-caused limitations.

IFAO is also indebted to other members of IFAO Board and colleagues from member societies for the organization of IFAO Sessions at the upcoming ESAO 2021 Congress with a renal topic "Roadmapping Innovative Kidney Replacement Therapies" organized by Dr. Wieringa & Dr. Stamatialis as chair persons. Also during the upcoming congress of Japanese Society for Artificial

Organs, Dr. Stamatialis and Dr. Yamashita from Tokyo will organize an IFAO online Session on portable/ wearable and implantable artificial kidneys.

IFAO has also joined the activities of ESAO in organizing monthly webinars, which started in Spring 2021 with great success. This will continue with support of IFAO in the future series starting in September. Our sister societies ASAIO and JSAO help to disseminate the information about webinars to their members. More details about upcoming webinars can be found at ESAO website and in the report of WG Education written by Gloria Gallego Ferrer.

If you have any questions about activities of IFAO you can contact Thomas Groth (thomas.groth@pharmazie.uni-halle.de).

Update and news about the ESAO/IFAO Webinars

Last spring (March 2021), we launched the first series of ESAO/IFAO Webinars, organized by the ESAO through its Working Group Education, our International Federation (IFAO), and with support of the ESAO Office. They were (and are) offered to all members of the ESAO, IFAO and sister Societies (ASAIO and JSAO).

The organizing committee, Prof. Thomas Groth (IFAO), and ESAO Board Members, Prof. Viktoria Weber (ESAO President Elect), Prof. Tom Verbelen (ESAO Treasurer), MSc. Alessandra Molteni (Board Governor) and Prof. Gloria Gallego-Ferrer (ESAO Board Member/Chair of the WG Education), **is very grateful to all the speakers**. With their generosity, they offered us lectures at a very high level of research and clinical practice. The sessions required **chairs** that dedicated their time to drive the sessions. Thanks.

We are also very happy because of the **very participative attendants we had**. They very enthusiastically interacted with the speakers on **Zoom using the Chat, Q&A panel and microphones**.

We are very privileged because we can count on **very professional support from the ESAO Office in the organization of the Webinars**. Our special mention goes to Anita Aichinger, Karin Strobl, Norbert Exler and Jens Hartmann, and the others that contributed to make it possible.

We do not want to forget the **help** of Mrs. Y.-T. Lu in the **design of Flyers** in the beginning of the organization. They are nice and we are happy to continue using them.

Twitter announcements provided by **@Artificial Organs** and personal accounts of ESAO members are very helpful to increase the number of attendants to the webinars. So, thanks to all the social media users.

The efforts of ESAO-Office allowed ESAO members to have the privilege of accessing the recordings of the webinars whenever they want. Please, find them in the **Member area on the ESAO website**. This area will be continuously expanded, and **for the moment, you can find the recordings of the past ESAO-IFAO webinars** as well as all contributions to the ESAO Winter School 2021 that our ESAO Secretary P. Baptista organized last winter. **You can access this area via the button in the upper right corner of the navigation bar "Members' Area" on our website <https://www.esao.org/>.**

Please, find here a **summary of the topics and speakers of the first series that will last until October 2021**.

ESAO-IFAO Webinars I: "Artificial Organs & Regenerative Medicine: Clinical Challenges Emerging Technologies Improved Medical Care". Monthly on 3rd Thursday, 12 p.m. CET (or CEST).

Date	Title	Speaker
March 18th 2021	Research focused to improve prognosis for hemodialysis patients.	 Prof. Bernd Stegmayr Department of Public Health and Clinical Medicine. Umea University. Sweden
	Developing cellular models for use in precision medicine.	 Mr. Tino Vollmer Charite University. Berlin. Freiburg University. Germany
April 15th 2021	Emerging applications of therapeutic apheresis to modulate inflammation.	 Prof. Viktoria Weber Center for Biomedical Technology. Danube University Krems. Austria
May 20th 2021	Long-term monitoring of Cardiac Assist Devices: Important tools for patient safety, therapeutic decisions and research.	 Prof. Heinrich Schima Center for Medical Physics and Biomedical Engineering / Department of Cardiac Surgery. Medical University of Vienna. Austria
	The necessity of improved patient surveillance: Available and future tools.	
	Interaction between the circulation and the pump - Beat to beat monitoring insights during exercise and daily living.	 Ph.D. Christoph Gross Center for Medical Physics and Biomedical Engineering / Department of Cardiac Surgery. Medical University of Vienna. Austria
	Interpretation and Prediction of complications from routine Pump-Log-File-Recordings.	 MS Thomas Schlöglhofer Center for Medical Physics and Biomedical Engineering / Department of Cardiac Surgery. Medical University of Vienna. Austria
June 17th 2021	Application of micro-machining for evaluation of mechanical reaction of cell in vitro.	 Prof. Shigehiro Hashimoto Biomedical Engineering Laboratory. Kogakuin University. Tokyo. Japan

September

16th 2021

LVAD therapy: clinical perspectives.



Dr. Steven Jacobs

Experimental Cardiac Surgery
Department. KU Leuven.
Belgium

LVAD for FONTAN: animal research.



Dr. Joeri Van Puyvelde

Experimental Cardiac Surgery
Department. KU Leuven.
Belgium

October

21st 2021

Membrane Innovations for improved
blood purification therapies.



Prof. Dimitrios Stamatialis

Bioartificial organs -
Department of Biomaterials
Science and Technology -
Technical Medical Centre.
University of Twente.
Enschede. The Netherlands

And... what's next?

We will soon announce the ESAO/IFAO Webinars second series (Nov 2021 – June 2022) with very interesting renowned speakers on Artificial Organs topics (clinicians, academic and corporate professionals). It is our intention to incorporate improvements from the lessons we have learnt after the first experience, in order to offer you the best of us!

We are looking for recommendations on potential speakers. Please feel free to let us know if you have any.

Follow us in the ESAO web page.

Yours sincerely,

The ESAO/IFAO Webinars Organizing Committee.

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