



NEWSLETTER

Message from the President

Welcome to the April 2024 ELSO newsletter.

The big event this month is the 12th EuroELSO Annual Meeting, to be held in Krakow, Poland, for the first time. Details can be found at the EuroELSO congress website: <https://euroelso-congress.com/>.



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As ever, it promises to be a great meeting. EuroELSO was the first regional chapter to be formed and remains the largest of them. A great amount of ECMO equipment is manufactured in Europe and our relationship with our colleagues there is of great importance to the wider organization.

On that note, it is worth reflecting on how ELSO has endeavored to enhance international engagement and participation. ELSO was formed in the USA back in 1989 and it is perhaps not surprising to anyone that most of ELSO's activities occurred there for many years. However, the world has changed and there are now four local chapters to facilitate the needs of those regions, whether it be education in other languages, such as Spanish or Japanese for example, or addressing equipment or staffing shortages that may hamper ECMO utilization in specific jurisdictions but not others. There is also a dedicated Global Representative on the ELSO Board of Directors. At present, this is Thomas Mueller from Germany, whose deep thinking, wisdom, non-American perspective, and enormous ECMO experience are of invaluable help to the Board.

When ELSO initiates a new official publication, whether it be a new guideline or textbook, those leading the project need to ensure appropriate representation from around the world, with at least one expert included from each of the regional chapters so that different opinions and practices are canvassed.



I think this has done a lot to strengthen international collaboration in the field and is an approach we will continue to develop as time goes on. If you see a need for more robust regional representation with specific projects, then please liaise with your local Chapter Chair and let him or her know your thoughts. As always, if anyone in the ECMO community anywhere in the world wants to get more involved with our society, then please visit <https://www.elseo.org/aboutus/getinvolved.aspx>.

I hope to see you in Poland,

Graeme MacLaren, President, ELSO

Registration Now Open!
ELSO 35TH ANNUAL MEETING

September 28 - October 2, 2024
Huntington Place
Detroit, Michigan, USA

The promotional banner features a nighttime photograph of the Detroit skyline, with several skyscrapers illuminated in blue and white lights, reflected in the water. The ELSO logo is positioned in the bottom left corner of the banner.



CONFERENCES

Event: 12th Annual EUROELSO Conference

Location: Krakow, Poland

Dates: April 24th -27th, 2024

Registration Information: <https://euroelso-congress.com/>

Event: 34th Specialist Education in Extracorporeal Membrane Oxygenation (SEECMO) Conference

Location: Marina Del Rey, California

Dates: June 1st - 2nd, 2024

Registration Information: <https://ucla.cloud-cme.com/course/courseoverview?P=5&EID=6162>

Event: 10th Annual AP ELSO Conference

Location: Beijing, China

Dates: June 20th - 23rd, 2024

Event: 35th Annual ELSO Conference

Location: Huntington Place, Detroit, MI

Dates: September 28th - October 1st, 2024

Registration Information: <https://web.cvent.com/event/dd3b3aaa-5f8b-4677-bc04-4c8339df04f8/summary>

Event: 6th LATAM Conference

Location: Buenos Aires Argentina

11/14/2024 - 11/16/2024

Registration Information: <http://www.elsolatam2024.org>

The latest information on ELSO & Collaborative Meetings can be found [here](#).

COMMITTEE ROUNDUP

ELSO Conference Committee

Plans for the 35th Annual ELSO conference in Detroit are well underway! The convention center is fabulous – expansive, but with a cozy feel. The conference committee is positive, hardworking, diverse and effective.

We have a speaker from Ford opening the conference on September 28. His strategic communications team has been ideating a special session for us. Henry Ford built his first car in Detroit. They will use the theme of innovation and collaboration to compare and contrast where we are now in the automotive industry and the world of ECMO. We will also hear new perspectives from ECMO patients who are also physicians.

New this year are sessions for perfusionists by perfusionists and for specialists by specialists. We will have more pediatric sessions, including pediatric cardiac ECMO. Practical sessions “Nuts and Bolts” will be mixed with scientific sessions. Experts from infectious disease, interventional cardiology and ethics will also join us to broaden our discussions.

“The Program, Pump and Patient: Leveraging Multidisciplinary Expertise” preconference has something for everyone and is coming together nicely.

An event like no other will be held at the Detroit Institute of Art (DIA) on Monday September 30. We will have access to the entire building and all the collections, plus food from areas all over the world in different areas of the museum. The ability to roam the museum will allow for conversations with colleagues from around the world in a stunning setting. This will be a night to remember!



The latest information on ELSO & Collaborative Meetings can be found [here](#).

**35TH ANNUAL ELSO CONFERENCE
DETROIT, MI
SEPTEMBER 28TH - OCTOBER 1ST, 2024**



Detroit Institute of Art

The Detroit Institute of Arts is the #1 ranked art museum in the United States.



Left: Downtown Detroit, Right: Conference Committee Chair Natalie Rintoul, George Mychaliska, and ELSO Director Ryan Barbaro.

Images are provided by Christine Stead and Peter Rycus

Education Committee/ELSO Academy

In early April, 90+ learners participated in simulation and cannulation courses at ELSO headquarters in Ann Arbor, Michigan.

Increasingly there is interest for some participants to do both simulation and then cannulation. ELSO is organizing courses to make this more feasible twice a year; April and November in 2024.

Below some faculty from the April courses are pictured with Dr. Bartlett. Dr. Bartlett often comes to visit with students, which is a nice opportunity for good Q&A with the Father of ECMO.



ELSO – Adult ECMO Certification (E-AEC) Exam

ELSO has outlined standardized educational criteria and launched an online application process via ELSO Academy for ECMO clinicians who have demonstrated satisfactory completion of criteria listed on our website. This journey is designed to be inclusive of the entire ECMO interprofessional team. Certification is valid for three years; upon which time a renewal can be pursued to maintain certification. For additional information, please visit: <https://www.elseo.org/Education/certificationexam.aspx>



ELSO Foundations

ELSO Foundations: Adult ECMO Training Course is a self-paced ECMO course consisting of 53 modules, covering over 80 learning objectives which are anchored in the foundational concepts that will allow practitioners to develop, strengthen, and refine clinical skills related to ECMO patient care skills. More than 1600 people have taken the ELSO Foundations Course.

ELSO Foundations: Neo/Peds ECMO Training Course is under development.

UPCOMING COURSES

ELSO Extracorporeal Membranous Oxygenation (ECMO) Adult Simulation Course

Dates: May 8th-9th, 2024 (Session 1) May 10th-11th, 2024 (Session 2)

Location: ELSO Headquarters

Address: 3001 Miller Road Ann Arbor, MI, USA



ELSO Neonatal and Pediatric ECMO Training Course

Date: June 3rd, 2024

Location: Virtual

Time: 2:00PM - 4:00PM EST

ECMO Cannulation Workshop (1-Day Workshop)

Dates: June 21st, June 22nd and June 23rd, 2024

Location: ELSO Headquarters

Address: 3001 Miller Road Ann Arbor, MI, USA

ELSO Extracorporeal Membranous Oxygenation (ECMO) Neo/Peds Simulation Course

Dates: October 17th - 18th, 2024 (Session 1) October 19th - 20th, 2024 (Session 2)

Location: ELSO Headquarters

Address: 3001 Miller Road Ann Arbor, MI, USA

ELSO Extracorporeal Membranous Oxygenation (ECMO) Adult Simulation Course

Dates: November 7th-8th, 2024 (Session 1) November 9th-10th, 2024 (Session 2)

Location: ELSO Headquarters

Address: 3001 Miller Road Ann Arbor, MI, USA

All non-ELSO courses/events can be found [HERE](#).



Quality Committee - Award of Excellence



Applications for the Center for Excellence in Life Support and the Path for Excellence in Life Support wrapped up for this application cycle. Site visits are going on now for selected centers.

If you are thinking of applying for next year, please take a look at "[Before you apply](#)". We have developed a tool that should help any center review their program and how they may answer specific questions. Click [HERE](#) to find the "Award Evaluation and Improvement Tool".

Announcements for 2025 winners will be available in the coming months.

Publications Committee

ELSO has a growing list of publications available.

- The ELSO Red Book – 6th Edition
- ECMO Specialist Training Manual – 4th Edition (5th Edition in development)
- ECPR and Resuscitative ECMO
- Post-Cardiotomy ECLS and other Temporary Mechanical Circulatory Supports in Adult Patients, with Roberto Lorusso as Senior Editor and a robust team of international authors.
- Neonatal and Pediatric ECMO Simulation Scenarios – developed in partnership with IPSS
- A Korean translation of the ELSO Red Book – 5th Edition
- Spanish translations of the ELSO Red Book – 4th Edition and ECMO Specialist Training Manual – 4th Edition

Visit our website for the full list of available [HERE](#).



Registry Committee

Big changes are coming to the Registry! The look and feel of entering data in the registry will be greatly enhanced. ELSO has invested in upgrades to the Registry infrastructure which will improve the data entry process. This update is scheduled to be rolled out in April 2024. Updated instructions and xml examples can be found on the website under the registry tab.

We estimate that the Registry will re-open by Friday, April 19. You will notice some improvements for those of you that enter data. We will also release the new International Summary reports to provide the first view of 2023, which has some improvements as well.

You will be asked to reset your password when you login.

We continue to make improvements to the ELSO Registry based on your feedback, security, and data structural considerations.

Data Use Agreements

All center signed Data Use Agreements can be found within the manage center details, located under the manage tab for all ELSO center administrators. If you have not submitted your center's Data Use Agreement, please do so as soon as possible.

Research Committee

Research initiatives are forming now! Please contact research@elso.org for any suggestions you might have for the committee. Please email any thoughts or suggestions to research@elso.org.



Nominations & Membership Committee (N&M)

Nominations for upcoming Standing Committee Chairs and a Liaison role are upon us. Please be on the lookout for a mass email soon for nominees to serve on the ELSO Steering Committee – a global leadership body. Open roles:

- Coordinator Liaison
- Respiratory Therapist Liaison
- Education Committee Chair
- Innovation & Technology Committee Chair
- Publications Committee Chair

Email your nomination candidates to nominations@elso.org by May 1st 2024.

FELSO Award Nominations

Do you know someone who has a lifetime of achievement in delivering ECMO care to patients, educating about ECMO, researching ECMO, developing ECMO technology or contributing to ELSO's mission? If so you may want to nominate the ECMOlogist in your life for the Fellowship of The Extracorporeal Life Support Organization "FELSO"

FELSO nominations are now being accepted. Application can be found [HERE](#).

Remember, that self nominations are not accepted. Please do not inform those being nominated that they are up for consideration.

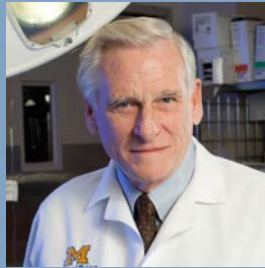
ELSO Communities



WhatsApp communities have taken off! Several have ~1,000 participants. The participation and real-time collaboration are exceeding expectations. If you have a question or need advice, please join one of the discussions. Help comes from so many people. Please also contribute your own practices and advice to help your ELSO colleagues.

To join a community visit the ELSO [website](#). You will be required to download WhatsApp on your phone. Communities are designed to be a support for our members that want to connect, collaborate, and support each other on a topic.

BEDSIDE WITH BARTLETT



Robert Bartlett, MD
*Founder, Board of Directors Emeritus
ELSO Professor Emeritus of Surgery University of Michigan*

Case Study

A 60-year-old man is in cardiogenic shock 3 days post myocardial infarction. He needs to go on VA support pending cardiac improvement or replacement. He is considered a candidate for transplantation if necessary. Several years ago, he had an aorto-bifemoral vascular graft for distal aortic occlusion. It would not be wise to try to cannulate the femoral artery on either side because of the vascular graft. What is the best mode of access for VA support?

What cannulation strategy should be considered?

VA access is easy to establish through the neck or subclavian approach. For many years we used the carotid artery in adults as the preferred mode of arterial access. Usually, the collateral circulation to the brain is good when the carotid is occluded low in the neck. The first step is to occlude the carotid manually with the patient awake and determine if there are any changes in brain function. If not, I would use the carotid and jugular vein for access. If carotid occlusion causes changes in brain function the alternative is to go to the subclavian artery. This requires careful dissection by an experienced surgeon to avoid damage to nerves and other structures. If the subclavian artery is used with a vascular graft, blood flow to the right arm will be excessive and should be partially occluded distal to the graft.



SURVEY ALLEY

Surveys may include survey-based research questionnaires and related activities; they may also appear on ELSO's WhatsApp communities. Items do not infer ELSO endorsement. Please participate in surveys you find interesting.

PERCEPTIONS OF SPECIALIST PALLIATIVE CARE ENGAGEMENT IN VV-ECMO PATIENTS

This is a brief survey for attending physicians working with ECMO patients regarding their perceptions on the appropriate integration of specialist palliative care into the care of patients requiring ECMO support and perceptions thereof. This survey is approved by the IRB at Baylor College of Medicine and is expected to take less than 5 minutes to complete.

The link is here: <https://redcap.link/palliativeECMOperceptions>

[Astrid Grouls, MD - Baylor College of Medicine & St. Luke's Hospital](#)





ELSO CHAPTER UPDATES: ECMO AROUND THE WORLD

SWAAC ELSO UPDATES

SWAAC ELSO is working hard on updating their bylaws. This work is being led by Poonam Malhotra, current Chair. A big thank you to the Steering Committee for doing this work. These updates will serve the chapter for years to come!



The Crossing Boundaries video was such a nice documentary of the history of ELSO and the launch of the SWAAC ELSO region, along with other noteworthy global achievements. Please take a look at the documentary when you have a few minutes - it is worth the watch! Congratulations to the team that put this together and starting off 2024 with such a successful chapter meeting!



APELSO Updates

Asia-Pacific Extracorporeal Life Support Organization (APELSO) Conference is going to be held in June 20 – 23, 2024, in Beijing, China. The conference chair is Professor Xiaotong Hou, Beijing Anzhen Hospital, Capital Medical University, Beijing, China. The detail of the conference including the program and registration information will be announced soon on the website. We are also planning for the APELSO Conference in Japan, 2025, which will be announced later. APELSO is a diverse organization with an extremely diverse range of cultures and peoples across the Asia-Pacific region. We have a large number of ECMO cases and lots of research activities and educational courses. Welcome to the APELSO conference, let's learn about ECMO together and enjoy our cultures.

By Shingo Ichiba, MD, PhD, APELSO Chair





EUROELSO Updates

We welcome all with an interest in adult or pediatric ECMO to join us for EuroELSO ECMO to join us for EuroELSO in Krakow, Poland from April 24th -27th, 2024. Krakow is a city renowned for its beautiful medieval architecture including Wawel Castle and the central market place.

The congress itself will be held in the far more modern ICE center just across the river and will encompass the full breadth of ECMO support and the latest in research. For more information, click [HERE!](#) See you soon!



LATAM ELSO Updates

The 6th LAELSO Congress is scheduled to be held in Buenos Aires November 14 to 16, 2024. Hope to see you there!



CHIEF EXECUTIVE OFFICER REMARKS

35 Years

The 2023 Annual Report provides a nice overview of the work that has gone on because of our global community. When you do take a look, I hope you see yourself reflected in the work of the organization. It is only through your collective work that we make progress. Noteworthy highlights from 2023 have been discussed previously, but is worth restating: 100,000 lives saved and over 200,000 patient runs in the ELSO Registry. The world's largest and oldest ECLS registry - it is a wealth of knowledge for advancing care, technology, and improving your own center's performance.

With 2024 under way, we will continue to acknowledge what 35 years of collective work has achieved, while maintaining the pioneering spirit that launched the organization, thanks to Dr. Robert Bartlett. In this coming year, we will increasingly lay down the framework for standards, collaboration, and innovation. There are many scientific questions that must be pursued to advance science and improve outcomes. We have an amazing international and interprofessional group that have established a global standard for education. The neonatal and pediatric standards will be released this year, along with an individual certification exam. Centers will also benefit from a new certification program that is designed to support program requirements and good practice. Research is taking off anew this year with a new committee chair and expansive international nucleus team to help set priorities and get the work done.

Thank you for your persistent efforts - one patient at a time.

Christine Stead, CEO





The Extracorporeal Life Support Organization

Our Mission

Providing global leadership in extracorporeal life support through innovation, advocacy, and advancing knowledge.

Our Vision

ELSO will be the premier organization for the advancement of extracorporeal life support throughout the world.

Guiding Principles

Innovation

Seeking to identify and promote advances for the application of extracorporeal therapies.

Expertise

Bringing together world leaders in the care of critically ill patients for collaboration to advance quality of care through education and publication.

Clinical Support

Maintaining a comprehensive registry of data to assist in reducing morbidity and improving survival of patients requiring extracorporeal therapies.

Community

Fostering communication and collaboration among professionals who apply advanced technologies in the treatment of refractory organ failure.



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