



# e-letter

December 2011

## Announcements

### **Registry Update:**

Active ELSO centers should have received information on how to log into the new web based data entry system! Because the transition took longer than expected the deadline for submitting data has been extended to January 8<sup>th</sup>, 2012.

### **Website Update:**

ELSO is working on a whole new look for our website which will have a member only section, discussion boards, an extensive educational section and much much more! See below for more details.

### **ELSO Research Grants**

Research grant applications for 2012 are now available to all active ELSO centers that wish to apply! The attached separate application contains detailed information.

**Red Book:**

The 4<sup>th</sup> edition of the red book is in its final stages of editing!  
Look for a release date in early 2012.

**H1N1 forms:**

ELSO has stopped collecting the additional short form specifically for H1N1 cases. If you have an H1N1 case that goes on ECMO be sure to code them as 488.1

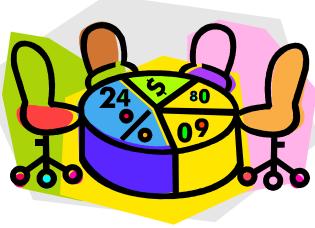
**Facebook:**

ELSO is now on Facebook: [www.facebook.com/ELSO.org](http://www.facebook.com/ELSO.org)

If you use Facebook please visit our site and “like” us! We intend to use Facebook as a way to present information to not only ELSO members but to anyone who is interested in our organization.

**Credentialing Task Force (Logistics & Education Committee):**

An update on the Credentialing Task Force’s activities will be presented at the Keystone Subcommittee meeting. The Task Force is the process of organizing a multidisciplinary group to perform a Job Analysis. The KNAPP consulting firm has been retained to assist in creating a proprietary document summarizing the study. Questions? Contact Mark Ogino, MD. [mogino@cchosp.com](mailto:mogino@cchosp.com).



# MEETINGS

**23rd Annual ELSO Conference in conjunction with the AmSECT  
Pediatric Perfusion Conference  
September 14-16, 2012, Seattle, WA**

**A separate pre-conference workshop  
Simulation-based ECMO Training translated to the Bedside:  
How, When, Where, Who? Really?  
September 13-14, 2012**

**Reception this year will be an evening dinner cruise on Elliott Bay!**

**<http://www.elso.med.umich.edu/meetings.html>**

**The 28<sup>th</sup> Annual CNMC ECMO Symposium  
February 26-March 1, 2012  
Keystone, Colorado  
[www.ecmomeeting.com](http://www.ecmomeeting.com)**

**1<sup>st</sup> Euro-ELSO meeting  
May 11- 13, 2012  
Rome, Italy  
Post-Conference Course, May 13- 14 - “Basic and Advanced  
Extracorporeal Support for Respiratory Failure”**



## EURO-ELSO News!

### SUMMARY OF THE ORGANIZATIONAL MEETING REGARDING EURO ELSO JULY 2, 2011 – PARIS, FRANCE

All the European members and other major ECMO centers in Europe were invited to attend this organizational meeting to discuss establishment of a European “chapter” of ELSO. About 60 representatives of those centers attended. The meeting was hosted by Alain Combs at La Pitie Hospital and directed by Giles Peek. Dr. Bartlett attended to provide the history of ELSO and Dr. Conrad, current chairman of the steering committee of ELSO, attended to represent ELSO. Dr. Bartlett described the history and background of ELSO including the list of activities, the advantages of having a worldwide organization, and the unique aspects of a scientific group with representation from all healthcare professional participants in the activities of the organization. ELSO is managed from a single office by one key person (the executive administrator, Peter Rycus). Dr. Conrad described the governance system of ELSO. ELSO also provides small research grants which can be used to facilitate registry projects. The Steering Committee is strongly supportive of an identifiable European regional ELSO group. He offered information and support from ELSO for a European group.

ELSO has been useful to ECMO centers and practitioners worldwide in several ways. The worldwide Registry is available for quick reference, documentation, publication, and quality assurance for member centers. ELSO provides guidelines and publications for some standardization, and a regular newsletter for notices and information for the worldwide community. ELSO has served as the communications center for ECMO related information. The advantages of a regional European ELSO group could be to provide central coordination of ECMO centers in Europe for scientific and practical communication, triage and referrals, addressing common problems of economics,

devices and supplies, patient transportation, and sharing an annual meeting. One of the major advantages of a European ELSO group would be to conduct clinical research studies in coordination with European intensive care, cardiac, and pediatric organizations.

Much of the discussion at the meeting centered around the Registry. Entry of cases has been time consuming and somewhat difficult in the past. The Registry forms are now on line so that data entry is facilitated. Many major centers have their own established database for ECMO and related cases. Dr. Conrad stated that a high priority of ELSO is to link existing databases to the ELSO Registry so that duplication of data entry can be avoided. There was discussion of an annual meeting directed by Roberto Lorusso. Much discussion has already taken place regarding the timing, locations, and characteristics of a European meeting. The annual worldwide ELSO meeting is in early autumn. The plan for a European meeting would be to hold it in the spring.

Consensus of the meeting was that establishment of a European ELSO group is a good idea which would be to the advantage of European ECMO centers and to ECMO centers worldwide. Other details to be determined are related to governance, finance, center recognition, official policies and recommendations, communication and research coordination.

ELSO is proud to present the EURO-ELSO steering committee members!

Chairman

Dr. Giles Peek

Conference Committee Chairman

Dr. Roberto LoRusso

Research Committee Chairman

Dr. Alain Combes

Logistics and Education Committee Chairman

Dr. Antonio Pesenti

Devices and Techniques Committee Chairman

Dr. Thomas Mueller

Registry

Dr. Bjorn Frenckner

Dear Colleagues,

The Extracorporeal Life Support Organization (ELSO) is pleased to announce the creation of a structured organization entitled Euro-ELSO. As an integral part of ELSO, Euro-ELSO will supervise and undertake scientific initiatives and activities meant to promote multidisciplinary ECLS application, investigation, research, education and training in Europe in the field of extracorporeal support for cardiocirculatory or respiratory failure. This group will also strengthen collaborative efforts between European, North American, and worldwide ECLS centers in improving the outcome of these critically ill patients with cardiorespiratory failure in whom extracorporeal techniques are being applied in increasing frequency. The formation of Euro-ELSO is the first of expanding collaborations around the globe to ECLS centers outside North America.

In order to officially present Euro-ELSO and to promote professional experience exchange and scientific activities in this respect, ELSO will organise the **1st Euro-ELSO meeting** which will be held in **Rome, Italy, from May 11th till May 13, 2012**. The conference location will be at the **Ergife Hotel and Conference Centre**, 10 minutes from the Vatican State and St. Paul's Cathedral. The conference will follow the usual ELSO annual meeting format (half day, full day, half day) preceded by a **Post-Conference Course** (May 13th-May 14th) titled "Basic and Advanced Extracorporeal Support for Respiratory Failure".

Besides invited lectures and a "Lectio Magistralis", there will be space and time for free communications. All scientific works will be collected and published in a Supplement of an international journal, delivered at the congress and to the journal subscribers worldwide.

Based on the great interest and the multidisciplinary approach in ECLS, ELSO expects a large audience and attendance in Rome. ELSO hopes that you will take into deep consideration to attend the conference or other parallel scientific or social activities which will make these events a unique opportunity to discuss and exchange scientific knowledge and experiences about ECLS.

All the details and information about the 1st Euro-ELSO meeting are available on the ELSO website or through direct contacts with the ELSO Office (Peter Rycus [prycus@umich.edu](mailto:prycus@umich.edu)). You may also contact the local congress agency (Conor, Viale Cortina d'Ampezzo, 170 – 00135 Rome, Italy; contact : Giada CELENTANO or Daniela MONTICELLI, [conor@conor.it](mailto:conor@conor.it), +39 06 85305059).

On behalf of ELSO, we look forward to hearing from you, and hope that you will be able to support these collaborative efforts. We also hope you will attend the 1st Euro-ELSO meeting and have the opportunity to enjoy the conference programme and the stay in Rome next May.

Sincerely,

Steve Conrad, MD  
ELSO Chairman

Giles Peek, MD  
Euro-ELSO Steering Committee Chair

Roberto Lorusso MD, PhD  
Euro-ELSO Conference Chair

Heidi Dalton MD  
ELSO Conference Chair



**Euro-ELSO**  
The European Branch of ELSO

# 1<sup>st</sup> Congress

**“Update and  
New Directions on  
ECMO Support in  
Critical Newborn,  
Pediatric, and  
Adult Patients”**

**1<sup>st</sup> Announcement**

*Michelangelo Buonarroti · La Pietà, 1497-1499 (Rome, St. Peter Cathedral)*



**Rome, Italy**

**May 11<sup>th</sup>-13<sup>th</sup>, 2012**

Ergife Hotel & Conference Center

**Post-Conference Course  
May 13<sup>th</sup> - 14<sup>th</sup>**

[www.elso.med.umich.edu](http://www.elso.med.umich.edu)



#### Congress Topics

- Update in Clinical Trials/Registries
- Neonatal, Pediatric, Adult Support
- Cardiac ECMO (cardiogenic shock, cardiac arrest, postcardiotomy, acute pulmonary embolism, bridge to heart tx)
- Respiratory ECMO (ARDS, AECOPD, pre and post Lung Tx)
- ECMO in CPR (Planning Strategies, Pitfalls)
- Cannulation (Access, Cannula Types, Limb Ischemia, Post-Implant Position, Malfunction, New Configurations)
- ECMO Management (monitoring, efficacy, circuit and system check-up)
- LV Unloading (Septostomy, IABP, other strategies)
- Ventilation during ECMO (cardiac and respiratory)
- Recirculation in VV ECMO (Recognition, Assessment, Management, Prevention/Minimization)
- Exchanging Circuit/Pump in ECMO Dependent Patients
- Drug Management (Inotropics, Vasodilators, Antibiotics) during ECMO
- IABP Support on ECMO (during, after, both)
- ECMO in special situations (pregnancy, trauma, sepsis, oncology)
- CO<sub>2</sub> Removal (devices and strategies)
- Renal failure and Dialysis during ECMO
- ECMO in H1N1 Pandemic
- Complications (prevalence, outcome, management, prevention)
- Simulation/Educational Activities to start/to train for ECMO Program
- ECMO Patient Transport
- New Devices/New Technology (Cannulae, Pumps, Heating Systems, Oxygenators, Circuit Surface, Cooling Systems)
- Anticoagulation Protocols on ECMO
- Awake/Mobilized ECMO Patient
- ECMO/Shock Team
- Indications/Weaning-Withdrawal
- Ancillary ECMO for other Therapies (tracheal, lung, neurosurgery, oncology, PTCA, TAVI)
- Organ Recovery/Bridge to other Therapies
- ECMO for Organ Donation
- Cerebral Protection during ECMO
- Infection during ECMO
- Ethical/Economical Issues
- Update in new extracorporeal life support systems
- Recommendations and Guidelines
- Ongoing Research and Future Needs

#### Special Sections

- Is my Team/Unit ready for an ECMO implantation in emergency?
- ECMO preparation and application in crisis (team governance, instrument management, procedural timeline and performance)
- Reporting ECMO issues (decision to implant, course, cessation) to patient's relatives: another duty for a team approach
- Nutritional Support during ECMO
- Appearance of white lungs on VA ECMO: things I should know and do

#### Keynote Addresses

#### Congress Faculty

Most distinguished experts from Europe and outside, from ELSO and ECMO centres, opinion leaders in extracorporeal life support systems.

#### Who Should Attend the Congress

Cardiac Surgeon, Cardio-Anesthesiologists, Anesthesiologists, Intensivists, Cardiologists, Thoracic Surgeons, Respiratory Specialists, Emergency Care Personnel, Perfusionists, Nurses.

#### Scientific Communications

Free papers will be allowed to be sent. Selected presentations will be presented at conference sections or as posters. Invited papers and selected abstracts will be published in a Supplement of an international journal.

#### The Educational Corner

The Exhibition Area will include a dedicated space where Institutions and Companies dealing with education and training in ECLS and ECMO will show up their specific products and programmes.

#### Post-Conference Course

One-day course (May 13<sup>th</sup>-14<sup>th</sup>) on "Practical aspects of extracorporeal support in adult respiratory failure".

4<sup>th</sup> Edition of the "ELSO Red Book" At the meeting ELSO will present the 4<sup>th</sup> edition of the "Red Book".





**Euro-ELSO**  
The European Branch of ELSO

1<sup>st</sup> Congress

### Social Programme

Congress participants will be offered unique opportunities to enjoy history and art beauty of Rome.

Fixed number of participants allowed (first come, first served basis).

Information to come at conference website.



### Conference Information

General Information (conference location, hotels), Conference Details (registration fee, registration forms, abstract submission) at [www.elso.med.umich.edu](http://www.elso.med.umich.edu)



### Conference Secretariats:

#### La Conor office

Viale Cortina d'Ampezzo, 170  
00135 Rome, Italy  
Phone +39 06 85305059  
Fax +39 06 99701344  
mail: [conor@conor.it](mailto:conor@conor.it)

#### ELSO office

2800 Plymouth Rd. - Building 300, Room 303  
Ann Arbor, MI - 48109 - 2800 - USA  
Phone: +1 734-998-6601 - Fax +1 734-998-6602  
Contact information:  
Peter Rycus, MPH - mail: [prycus@umich.edu](mailto:prycus@umich.edu)



# SIMULATION NEWS

ECMO Simulation is becoming an important component in the training of ECMO-related competency. As more ECMO centers begin exploring this new area, there is wide variation in ideas, techniques, and possibilities.

In order to better disseminate information regarding ECMO Simulation, ELSO has created the ECMO Simulation Network. This network will be in the form of a discussion board which can be accessed through the new ELSO website.

Our experts in the field of ECMO simulation and moderators for this forum will be Mark Ogino, MD (ELSO), Brian Bridges, MD (Vanderbilt), Gary Oldenburg (Johns Hopkins), and Jeff Riley (Mayo Clinic). Our hope is to create an interactive forum for discussion dedicated to ECMO Simulation.

We are in the process of building a contact list of interested ECMO Centers. If you are interested in being a part of our email group-list, please feel free to email one of the moderators below. Also, be sure to check out the ECMO Simulation discussion board once the ELSO website becomes active.

In addition, we are planning for an ECMO Simulation Symposium, which will be hosted by Johns Hopkins. As more information becomes available, we will send out a follow-up email to everyone on the group-list.

Sincerely,

Brian Bridges, MD  
Vanderbilt University School of Medicine  
[brian.c.bridges@vanderbilt.edu](mailto:brian.c.bridges@vanderbilt.edu)

Gary Oldenburg, RRT  
Johns Hopkins  
[goldenbu@jhmi.edu](mailto:goldenbu@jhmi.edu)

Mark Ogino, MD  
Chair, ELSO Logistics and Education Committee  
[mogino@cchosp.com](mailto:mogino@cchosp.com)

Jeff Riley, CCP  
Mayo Clinic  
[Riley.Jeffrey@mayo.edu](mailto:Riley.Jeffrey@mayo.edu)



# *Award of Excellence*

The ELSO Award for Excellence in Life Support  
Application for 2012  
is now available for download!

<http://www.elso.med.umich.edu/Award.html>

**The Application Deadline is April 15th**

*Absolutely no late applications will be accepted!!!*

If your centers' Award expires in 2012, you must apply for renewal by April 15th to assure continuous designation as a Center of Excellence.

**NEW!!**

The ELSO Award Committee will be providing a workshop at the Keystone ECMO Meeting.

*“How to Fill Out an ELSO Award Application –  
All Your Questions Answered”*

Monday – February 27th, 2012  
After the Morning Session 1015 – 1200

ELSO is proud to showcase those centers who received the award of excellence at the September 2011 Scottsdale meeting!

Children's Hospital of Boston  
Boston, Massachusetts

Children's National Medical Center  
Washington, DC

University of Wisconsin Hospital  
Madison, Wisconsin

Rady Children's Hospital  
San Diego, California

Duke University Hospital  
Durham, North Carolina

Cohen Children's Medical Center at North Shore Long Island Jewish  
Medical Center  
New Hyde Park, New York

University of Michigan  
Ann Arbor, Michigan

Advocate Hope Children's Hospital  
Oak Lawn, Illinois

University of Minnesota Medical Center, Fairview  
Minneapolis, Minnesota

Children's Hospital of Michigan  
Detroit, Michigan

University Medical Center  
Tucson, Arizona

Children's Healthcare of Atlanta at Egleston  
Atlanta, Georgia

Karolinska University Hospital, ECMO Centrum Karolinska  
Stockholm, Sweden

Lucile Salter Packard Children's Hospital at Stanford  
Palo Alto, California

University of Iowa Hospitals and Clinics  
Iowa City, Iowa

Riley Hospital for Children at Indiana University  
Indianapolis, Indiana

Phoenix Children's Hospital  
Phoenix, Arizona

Cincinnati Children's Hospital Medical Center  
Cincinnati, Ohio

Children's Hospital of Pittsburgh of UPMC  
Pittsburgh, Pennsylvania

Women and Children's Hospital of Buffalo  
Buffalo, New York

Texas Children's Hospital  
Houston, Texas

Primary Children's Medical Center  
Salt Lake City, Utah

Nationwide Children's Hospital  
Columbus, Ohio

Seattle Children's Hospital  
Seattle, Washington



# TRAININGS

## \*\*\*\*\*ECMO TRAINING COURSES\*\*\*\*\*

**Training courses are also listed on ELSO's web page and if you would like yours listed just let us know!**

### **Venovenous ECMO for Adult Respiratory Failure**

#### **An ELSO Course**

April 11-14, 2012 (tentative)

Atlanta, GA

This intense four day course is designed for physicians and specialists caring for adult patients with severe acute respiratory failure who may be candidates for Extracorporeal Respiratory Support. Common diagnoses considered for adult VV ECLS support include: H1N1, other viral or bacterial pneumonias, burn and inhalation injury, traumatic lung injury, pulmonary contusion, pulmonary embolism, post-shock or sepsis associated ARDS, or other forms of reversible acute lung injury or illness.

Course content includes indications and contraindications, cannulation techniques, initiation of support, patient and circuit physiology of VV ECMO, programmatic design and management, and all aspects of patient management and decision making for patients on VV ECMO. Complementing the twelve hour didactic course is an eighteen hour high fidelity simulation lab with an ECMO circuit utilizing centrifugal pump technology. All learners will participate in a six hour “ECMO Essentials 101” simulation workshop before the didactic sessions to review the fundamentals of bedside ECMO, such as, a circuit check, equipment components, alarms, pressure monitoring, stopcocks and pigtails, drawing samples from the circuit, de-airing the circuit, and hand cranking the pump. The goal is to immerse the learner in ECMO terminology and concepts before the didactic course to enhance the learning process. In the conference simulation workshop, small groups will participate in scenarios reviewing emergency procedures and highlighting VV physiology with a learner to instructor ratio of 2:1. Simulation education

will allow participants to develop skills in common bedside procedures and to learn key assessments for decision making by “hands on” experience. The course is appropriate for centers setting up new programs, or for existing centers expanding into adult services.

Space is limited to a maximum of 36 participants!

Registration per person is \$2,000.00

Registration includes the ELSO Red Book and ECMO Specialist Training Manual



## ELSO Website Development

ELSO has been and continues to serve the Extracorporeal Community primarily as a registry for membrane oxygenation cases. The organization has over 200 member centers around the world. According to ELSO statistics we have over 45,000 ECLS cases in the database.

One of our goals in the revamp of the new ELSO website is to expand the mission as a resource to all ECMO centers. In the age of evidenced based practice we want to make sure that centers performing this life saving therapy have access to the resources (in print and an appropriate contact list) to allow them to do it better. For centers that already have a great and established program we invite you to share what you know works.

There is disparity across our field in the manner in which therapy is administered as well as the equipment that is used. We wish to better establish the critical elements and strive towards the ever elusive "standard of practice." You may be the master of Neonatal VV ECMO with the best results in the registry, but perhaps you have limited experience with Argatroban. Please join us in sharing your policies and procedures, check lists, training materials, Powerpoints, videos, etc. Some of the materials can be restricted to your center's team access only. We envision an interactive portion of the new website that allows you to click on a facility on a map or a search window for specific topics. We've already had some great response from a similar request on an ECMO topic mail list. We are hoping for a deluge of your resources for the rollout of our new website tentatively scheduled for the Keystone Conference in February.

If you are interested in participating, please contact me directly at my email below. If you are not the point person at your facility, please pass this along to them, or give me their contact info, and I'll do the dirty work.

Happy Holidays!

Dave Clements RN, CCP  
ELSO Website Development Team  
[david.clements@providence.org](mailto:david.clements@providence.org)



# SURVEYS



At the request of several centers, the steering committee has decided to include links to center surveys in ELSO's periodic e-letter. Each time we will describe the purpose of the study, who is asked to participate, and who is collecting the data. All surveys will be linked to "survey-monkey" which will collect the data. If you have a survey you would like to submit, please send the information to ELSO via Peter Rycus, MPH ([prycus@umich.edu](mailto:prycus@umich.edu)).



# OPPORTUNITIES

**If you or your institution have specific needs for coordinators, specialists, directors, etc. ELSO “e-letter” will post them here as well as on our web site!!**

Institution Name: University of Michigan Health System

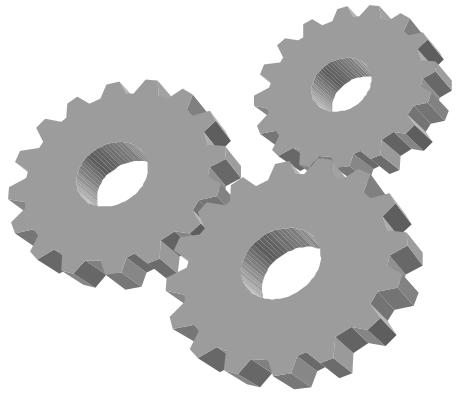
Job Title: ECMO Registered Nurse

Contact Person: Paula Baldridge

Contact Phone: 734-936-5183

Contact Email: pbaldrid@med.umich.edu

Web Link: <http://umnursing.org>



## **ELSO Corporate Member Announcements**

**This section will allow ELSO's corporate members an opportunity to pass on important information.**

**Currently no announcements.**