

# *8<sup>th</sup> International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion*

**JUNE 13-16, 2012, GALATASARAY UNIVERSITY, ISTANBUL, TURKEY**

<http://pennstatehershey.org/web/pedscpb/home>



**Important Dates (2012)**

January 1, 2012	Conference & Hotel registration begins
January 1, 2012	Abstract Submission Begins - Online Only
February 28, 2012	Final day for abstract submissions
March 5, 2012	Exhibitor booth registration deadline
	Early registration ends
March 15, 2012	Notification of accepted abstracts
April 1, 2012	Final day for manuscript submissions being considered for conference awards
April 2-June 12, 2012	Late registration
June 13-16, 2012	On-site registration (only if space is available)

## International Faculty

**Conference Founder**

Akif Ündar, PhD

**Honorary Co-Chairs**

Aydın Aytaç, MD, Istanbul, Turkey

John A. Waldhausen, MD, Hershey, USA

William S. Pierce, MD, Hershey, USA

**Local Conference Chair**

Atıf Akçevin, MD, Istanbul, Turkey

**Local Honorary Co-Chairs**

Sait Aslamaci, MD, Ankara, Turkey

Tayyar Sarioğlu, MD, Istanbul, Turkey

**Planning/Scientific Committee:**

Tijen Alkan-Bozkaya, MD, Turkey

İhsan Bakır, MD, Turkey

Yves Durandy, MD, France

Huriyet Ersayin-Kantas, FCCP, UK

Colleen E. Gruenwald, PhD, Canada

Giovanni Battista Luciani, MD, Italy

John L. Myers, MD, USA

David Palanzo, CCP, USA

Linda B. Pauliks, MD, MPH, USA

Chitra Ravishankar, MD, USA

Eugen Sandica, MD, Germany

Kyung Sun, MD, PhD, MBA, Korea

Rıza Türköz, MD, Turkey

Bonnie Weaver, RN, CCRN, USA

**International & Local Members, Moderators & Wet Lab Instructors**

David Anderson, MD, UK

Emre Belli, MD, France

Christos Calaritis, CCP, Canada

Jean-Yves Chevalier, MD, France

Chris Chin, MD, UK

Yves Durandy, MD, France

Huriyet Ersayin-Kantas, FCCP, UK

Colleen E. Gruenwald, PhD, Canada

Giovanni Battista Luciani, MD, Italy

Thomas Markmann, Germany

John L. Myers, MD, USA

David Palanzo, CCP, USA

Linda B. Pauliks, MD, MPH, USA

Kerem Pekkan, PhD, USA

Feng Qiu, MD, China

Chitra Ravishankar, MD, USA

Marina Rubatti, MD, France

Eugen Sandica, MD, Germany

Kyung Sun, MD, PhD, MBA, Korea

Serdar Ural, MD, USA

Bonnie Weaver, RN, CCRN, USA

Wei Wang, MD, China

Sung Yang, PhD, Korea

Jeffrey D. Zahn, PhD, USA

**Local Members – Türkiye**

Mehmet A. Ağırbaşı, MD

Alp Alayunt, MD

Tijen Alkan-Bozkaya, MD

İhsan Bakır, MD

Leyla Çakır, CP

Ali Ekber Çiçek, BS, CCP

Sertaç Çiçek, MD

Taner Çiçek, CP

Ali İhsan Dokucu, MD

Ersin Erek, MD

Çağdaş Güleç, CP,

Sertaç Haydın, MD

Ali Rıza Karacı, MD

Ender Ödemiş, MD

Tufan Paker, MD

Ahmet Şaşmazel, MD

Halil Türkoğlu, MD

Ayda Türköz, MD

Rıza Türköz, MD

Yusuf K. Yalçınbaş, MD

**Conference Coordinator:**

Heather Stokes

## **Scientific Program (Draft)**

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### **Wednesday , June 13, 2012**

**1:00pm – 5:00pm      Registration**

### **Thursday, June 14, 2012**

**7:00am – 8:00am      Registration/Breakfast**

**8:00am – 10:00am      WELCOME - Atif Akçevin, MD, Turkey & Akif Ündar, PhD, USA**

**PLENARY SESSION #1: Managing the single ventricle patient from Fetus to Definite Treatment (20 min. each)**

**Moderators: Giovanni Battista Luciani, MD, Italy & John L. Myers, MD, USA**

- 1. Congenital Heart Disease: Incidence and Risk Factors- Prenatal HS diagnosis (Serdar Ural, MD, USA).**
- 2. HLHS- Surgical approach (John L. Myers, MD, USA)**
- 3. The Hybrid procedure for complex cases of HLHS or other single ventricle physiology (David Anderson, MD, UK)**
- 4. Neonatal heart transplantation (Chitra Ravishankar, MD, USA)**
- 5. Echocardiographic assessment of single ventricle heart (Linda B. Pauliks, MD, MPH, USA)**

**Discussion – 20 minutes**

**10:00am – 11:00am      Break / Posters / Exhibitions**

**11:00am – 11:45am      KEY NOTE LECTURE: A 40-YEAR ODYSSEY IN MECHANICAL CIRCULATORY SUPPORT. (WILLIAM S. PIERCE, MD, HERSHEY, PA, USA)**

**Introduction: John L. Myers, MD, USA**

**11:45am – Noon      Presentation of Young Investigators' Awards**

**Noon – 1:00pm      Lunch**

**1:00pm – 3:00pm      PLENARY SESSION #2: Pediatric MCS – Devices & Outcomes (20 min. each)**

**Moderators: William S. Pierce, MD, USA & Kyung Sun, MD, PhD, MBA, Korea**

- 1. The Berlin Heart Experience. (Eugen Sandica, MD, Germany)**
- 2. Characteristics of a non-occlusive pressure-regulated blood roller-pump (Yves Durandy, MD, France)**
- 3. New Pediatric VAD: ROTASSIST 2.8 (Thomas Markmann, Germany)**

4. TBD – First uses of a new diagonal pump in extracorporeal support systems for children and infants

5. TBD

Discussion – 20 minutes

**3:00pm – 3:45pm**      **Break / Posters / Exhibitions**

**3:45pm – 6:00pm**      **Regular Slide Presentations #1 (Selected from abstracts)**  
9 slide presentations (15 min. each)

**8:00am – 6:00pm**      **Poster Presentation #1**

**7:00pm – 10:00pm**      **GALA DINNER ON BOAT**

**Friday, June 15, 2012**

**7:00am – 8:00am      Registration/Breakfast**

**8:00am – 10:00am      PLENARY SESSION #3: Extracorporeal Life Support (20 min. each)**  
**Moderators: David Anderson, MD, UK & Chitra Ravishankar, MD, USA**

- 1. The use of ECMO utilizing the Rotaflow pump in pediatric patients (Colleen E. Gruenwald, PhD, Canada)**
- 2. Pediatric Single cannula veno-venous extracorporeal membrane oxygenation A twenty-year clinical experience (Jean-Yves Chevalier, MD, France)**
- 3. Anticoagulation during ECLS (Christos Calaritis, CCP, Canada)**
- 4. TBA (Eugen Sandica, MD, Germany)**
- 5. Pediatric ECLS: Penn State Hershey experience from the bedside**

**(Bonnie Weaver, RN, CCRN, USA)**

**Discussion – 20 minutes**

**10:00am – 10:45am      Break / Posters / Exhibitions**

**10:45am – Noon      MINI-SYMPOSIUM #1: Surgery**  
**Moderator: John L. Myers, MD, USA**

- 1. TBA (Emre Belli, MD, France)**
  - 2. TBA (Giovanni Battista Luciani, MD, Italy)**
  - 3. Studies on pulse vs. non-pulse at Korea Artificial Organ Center. (Kyung Sun, MD, PhD, MBA, Korea)**
- Discussion**

**Noon – 1:00pm      LUNCH**

**1:00pm – 3:00pm      PLENARY SESSION #4: Cardiopulmonary Perfusion (20 min. each)**  
**Moderators: Akif Ündar, PhD, USA**

- 1. The use of blood and strategies of blood conservation in infant CPB (Colleen E. Gruenwald, PhD, Canada)**
  - 2. TBA (David Palanzo, CCP, USA)**
  - 3. TBA (Huriyet Ersayin-Kantas, FCCP, UK)**
  - 4. TBA (Selen Onan, MD, Turkey)**
  - 5. Evaluation of neonatal oxygenators with or without integrated arterial filters (Feng Qiu, MD, China)**
- Discussion – 20 minutes**

**3:00pm – 3:45pm      Break / Posters / Exhibitions**

**3:45pm – 4:45pm      MINI-SYMPOSIUM #2: Anesthesia**  
**Moderator: Yves Durandy, MD, France**

- 1. Principles of neonatal cardiac anaesthesia. (15min)**  
**(Chris Chin, MD, UK)**
- 2. Multidisciplinary pediatric simulation training. (15min)**  
**(Chris Chin, MD, UK)**
- 3. TBD**

**Discussion – 15 minutes**

**4:45pm – 5:45pm      MINI-SYMPOSIUM #3: Myocardial Protection during CPB (15 min. each)**  
**Moderator: Tayyar Sarioğlu, MD, Turkey**

- 1. Myocardial protection during Neonatal/Pediatric CPB**  
**(Rıza Türköz, MD, Istanbul, Turkey)**
- 2. Is there any rationale for the choice of a time interval between cardioplegia injections? (Yves Durandy, MD, France)**
- 3. Relation between warm ischemic time and Peak level of troponin following pediatric CPB (Marina Rubatti, MD, France)**

**Discussion – 15 minutes**

**8:00am – 5:45pm      Poster Presentation #2**

**Saturday, June 16, 2012**

**7:00am – 8:00am**      **Registration/Breakfast**

**8:00am – 10:00am**      **PLENARY SESSION #5: Engineering (20 min. each)**  
**Moderators: Kerem Pekkan, PhD, USA & Jeffrey D. Zahn, PhD, USA**

- 1. CFD – Neonatal and Pediatric applications. (Kerem Pekkan, PhD, USA)**
  - 2. Recent progress in measurement of blood physical properties under microfluidic environments. (Sung Yang, PhD, Korea)**
  - 3. TBA (Wei Wang, MD, China)**
  - 4. TBA (Jeffrey D. Zahn, PhD, USA)**
  - 5. TBA**
- Discussion – 20 minutes**

**10:00am – 10:45am**      **Break / Posters / Exhibitions**

**10:45am – Noon**      **Parallel Sessions:**

**Pediatric MCS & CPB in Turkey**

**10:45am – Noon MINI-SYMPOSIUM #4: Pediatric/Neonatal MCS & CPB in Turkey  
(15 min. each)**

- 1. TBD - CPB**
- 2. TBD - MCS**
- 3. TBD – Outcomes**
- 4. National Pediatric Cardiovascular Research Center in Türkiye: An update  
Akif Ündar, PhD**

**Wet-labs:**

**Instructors: Leyla Çakır, CP, Ali Ekber Çiçek, CP, Taner Çiçek, CP, Halime Erkan, RN, CP,  
Çağdaş Güleç, CP, Huriyet Ersayın-Kantas, FCCP, David Palanzo, CCP,**

**Neuromonitoring; Near-infrared spectroscopy (NIRS)**

**ECLS circuits; VAD's; Ultrafiltration; Pulsatile perfusion**

**Neonatal/Pediatric CPB Circuit - step-by-step circuit set-up**

**Neonatal/Pediatric oxygenators with integrated arterial filters**

**Noon – 1:00pm**      **LUNCH**

**1:00pm – 3:00pm**      **Regular Slide Presentations #2 (Selected from abstracts)**  
**8 slide presentations (15 min. each)**



<b>3:00pm – 3:45pm</b>	<b>Break / Posters / Exhibitions</b>
<b>3:45pm – 5:00pm</b>	<b>Regular Slide Presentations #3 (Selected from abstracts) 5 slide presentations (15 min. each)</b>
<b>8:00am – 5:00pm</b>	<b>Poster presentation #3.</b>
<b>5:00 pm</b>	<b>CLOSING REMARKS</b>

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# INTERNATIONAL SOCIETY FOR PEDIATRIC MECHANICAL CARDIOPULMONARY SUPPORT

*"If the course of just one child's life is improved as a result of this organization, we have reached our goal."*

Established 2010

Akif Ündar, PhD  
Founder and President

## Mission

The mission of this society is to focus on the current problems associated with pediatric cardiac patients during and after acute or chronic cardiac support. The society will bring together as many distinguished clinicians, bioengineers, and basic scientists as possible to precisely define current problems and suggest novel approaches and solutions.



International Conference Web Site:

<http://pennstatehershey.org/web/pedscpb/home>

International Society Web Site:

<http://www.cvent.com/EVENTS/Info/Summary.aspx?e=3b84e6a4-9dac-4c76-963c-0bd7045dff56>