

**2nd International Webinar on  
Minimal Invasive Extracorporeal  
Technologies**

**LIVE MiECT  
UPDATE MEETING**



**29 - 30 NOVEMBER 2019**

Thessaloniki, Greece  
Porto Palace Hotel

Watch free at [www.miectis.org](http://www.miectis.org) / Live discussion



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## 2<sup>nd</sup> MiECT Update Meeting Thessaloniki, November 29-30, 2019

### Symposium President



**Kyriakos Anastasiadis**  
Professor of Cardiac Surgery  
Head of Cardiothoracic Department  
Deputy Head of the School of Medicine  
Aristotle University of Thessaloniki  
AHEPA University Hospital  
Thessaloniki, Greece  
Executive Board MiECTiS

### Symposium Secretary



**Polychronis Antonitsis**  
Ass. Professor of Cardiac Surgery  
Aristotle University of Thessaloniki  
Cardiothoracic Department,  
AHEPA University Hospital  
Thessaloniki, Greece  
Secretary MiECTiS

**Congress Venue:** Porto Palace Hotel, Thessaloniki, Greece

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## Faculty

### **Aamer Ahmed (UK)**

Honorary Associate Professor  
Department of Anaesthesia, Glenfield Hospital, Leicester

### **Gianni Angelini (UK)**

Professor of Cardiac Surgery  
Head, Bristol Heart Institute

### **Helena Argiriadou (Greece)**

Ass. Professor of Anaesthesiology  
Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

### **Robert Baker (Australia)**

Professor, Cardiac Surgery Research and Perfusion  
Flinders University Medical Centre, Adelaide  
Chair, International Consortium for Evidence-Based Perfusion AmSECT

### **Adrian Bauer (Germany)**

Clinical Perfusionist.  
MediClin Heart Center Coswig

### **Christophe Baufreton (France)**

Professor of Cardiac Surgery  
Department of Cardiac Surgery, University Hospital of Angers

### **Mark Bennett (UK)**

Consultant Anaesthesiologist  
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Steering Committee MiECTiS

### **Thierry Carrel (Switzerland)**

Professor of Cardiovascular Surgery, University of Bern  
Chairman, Clinic for Cardiovascular Surgery, Hospital of Bern  
Executive Board MiECTiS

### **Yeong-Hoon Choi (Germany)**

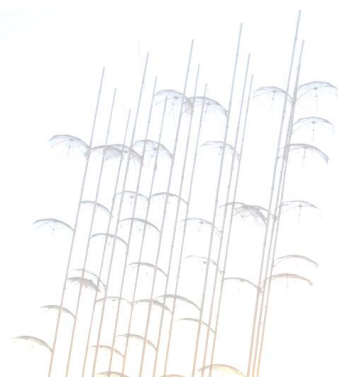
Professor of Cardiac Surgery  
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### **Ignazio Condello (Italy)**

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### **Filip De Somer (Belgium)**

Professor, Clinical Perfusionist  
Department of Interventional and Surgical Cardiology, University of Gent





## Faculty

### **Apostolos Deliopoulos (Greece)**

Clinical Perfusionist

Cardiothoracic Department, AHEPA University Hospital, Thessaloniki

### **Marco Di Eusanio (Italy)**

Professor of Cardiac Surgery

Chief of Department of Cardiac Surgery, Lancisi Cardiovascular Center

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### **Balthasar Eberle (Switzerland)**

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### **Aschraf El-Essawi (Germany)**

Cardiac Surgeon

Department of Thoracic and Cardiovascular Surgery, Braunschweig

Steering Committee MiECTiS

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Assistant Professor of Cardiac Surgery

University of Milano-Bicocca, San Gerardo Hospital, Monza

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Clinical Perfusionist

Maastricht University Medical Center

### **Benoit Genette (Switzerland)**

Product Manager & Sr. Clinical Specialist Blood Management Therapies EMEA,

Medtronic Inc.

### **Robert Groom (Kenya)**

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Professor of Cardiovascular Surgery

Faculty, Department of Cardiovascular Surgery

Ankara City Hospital Campus, Ankara

### **Can Ince (The Netherlands)**

Professor

Department of Translational Physiology, University of Amsterdam

### **Hansjorg Jenni (Switzerland)**

Clinical Perfusionist

Clinic for Cardiovascular Surgery, University Hospital of Bern



## Faculty

### **Alexander Kadner (Switzerland)**

Professor of Cardiac Surgery  
Clinic for Cardiovascular Surgery, University Hospital of Bern

### **Bob Kiaii (Canada)**

Professor of Cardiac Surgery  
Chief of Cardiac Surgery, London Health Sciences, Ontario  
President-Elect ISMICS

### **Andreas Liebold (Germany)**

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Department of Cardiac Surgery, University of Ulm

### **Valerio Mazzei (Italy)**

Cardiac Surgeon  
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### **Marco Moscarelli (Italy)**

Consultant Cardiac Surgeon  
Anthea Hospital, Bari

### **Frank Merkle (Germany)**

Organizational Head  
Academy for Perfusion and Steinbeis Transfer Institute, Cardiovascular Technology,  
German Heart Institute, Berlin

### **Narain Moorjani (UK)**

Consultant Cardiac Surgeon  
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### **John Murkin (Canada)**

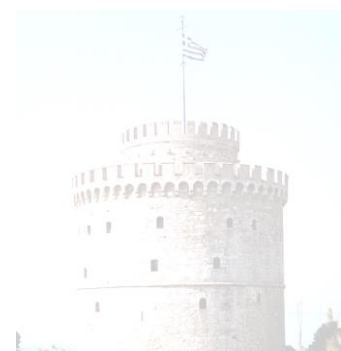
Professor of Anesthesiology  
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President MiECTiS

### **Farouk Oueida (Saudi Arabia)**

Consultant Cardiac Surgeon  
“Saud Al Babtain” Cardiac Centre

### **Prakash Punjabi (UK)**

Professor, Consultant Cardiac Surgeon  
National Heart and Lung Institute, Imperial College, London  
Editor Perfusion Journal





## Faculty

### **Vadim Popov (Russia)**

Professor of Cardiac Surgery  
Chief of Cardio-Vascular Surgery  
Vishnevsky National Medical Research Center of Surgery, Moscow

### **Marco Ranucci (Italy)**

Professor of Anaesthesiology  
Head, Cardiothoracic Anaesthesiology Department, San Donato Hospital, Milan

### **Barney Reeves (UK)**

Professor of Health Services Research  
Bristol Trials Centre, Bristol Medical School, University of Bristol

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Manager, Perfusion Services and ExVivo Therapies  
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Vice President MiECTiS

### **Oz M. Shapira (Jerusalem)**

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### **Pascal Starinieri (Belgium)**

Clinical Perfusionist  
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### **Marco Stehouwer (The Netherlands)**

Clinical Perfusionist,  
St Antonius Hospital, Nieuwegein

### **Wim van Boven (Switzerland)**

Consultant Cardiac Surgeon  
Heart & Rhythm Centre, Zurich  
Consultant Cardio-thoracic Surgeon  
Amsterdam University Medical centers, the Netherlands

### **Alexander Wahba (Norway)**

Professor of Thoracic Surgery  
St. Olavs University Hospital, Trondheim  
President EBCCP



## Scientific Programme

### Friday 29<sup>th</sup> November 2019

16:00 - 16:15

**Welcome – introduction to the Meeting**

Kyriakos Anastasiadis, President

16:15 - 18:15

**MiECC: state-of-the-art**

**Moderators:** K. Anastasiadis, J. Murkin, G. Angelini

**MiECC as therapy**

K. Anastasiadis

**The future of perfusion; the role of MiECT**

F. Merkle

**Modular MiECC; the ultimate solution**

A. El-Essawi

**MiECC: How it worth for my cardiac surgery practice**

V. Popov

**MiECC in the academic literature**

P. Punjabi

**Implementing MiECC in future perfusion guidelines**

R. Baker

**Integrating MiECC in perfusion training programmes**

A. Wahba

**Restarting a MiECC programme**

W. van Boven

**Evolution from closed systems to MiECC**

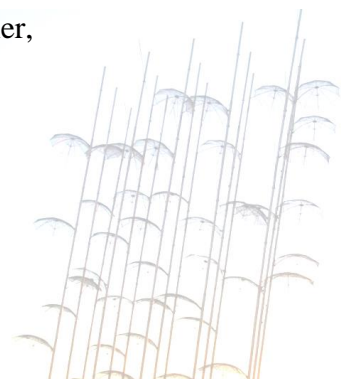
O. Shapira

**Expanding MiECTiS**

P. Antonitsis

**Discussants:** T. Carrel, A. Bauer, R. Groom, A. Kadner,

V. Mazzei, F. Oueida





## Scientific Programme

### Friday 29<sup>th</sup> November

18:15 - 19:15

#### **MiECC; Research & Development**

**Moderators:** A. El-Essawi, C. Serrick, M. Bennett  
**Representatives from perfusion products companies**  
Medtronic, Terumo, Getinge, LivaNova, Eurosets

19:15 - 20:00

#### **MICS-MiECC; the future**

**Moderators:** S. Gunaydin, P. Starinieri

#### **Why MICS on MiECC?**

S. Gunaydin

#### **Minimally invasive cardiac surgery protocols**

M. Di Eusanio

#### **MICS on MiECC perfusion**

P. Starinieri

#### **Collaboration between MiECTiS and ISMICS**

B. Kiaii

**Discussants:** V. Popov, F. Formica, P. Antonitsis





## Scientific Programme

### Saturday 30<sup>th</sup> November 2019

**09:00 - 10:00**

**MiECC – Anaesthetic considerations**

**Moderators:** J. Murkin, M. Bennett

**Patient blood management in cardiac surgery**

M. Ranucci

**Patient blood management guidelines; the role of MiECC**

A. Ahmed

**P-O-C coagulation management in MiECC**

E. Argiriadou

**Enhanced recovery during surgery with MiECC**

M. Bennett

**Update on brain monitoring**

J. Murkin

**Discussants:** B. Eberle, C. Baufreton, B. Genette,

K. Anastasiadis, G. Angelini

**10:00 - 11:45**

**MiECC and microcirculation**

**Moderators:** G. Angelini, P. Punjabi

**From minimal invasive extracorporeal circulation  
type I to type III: the perfusionist's view**

H. Jenni

**Attenuation of inflammatory response**

YH Choi

**End-organ protection**

F. De Somer

**Goal-directed perfusion**

C. Serrick

**Assessment of microcirculation in cardiac surgery**

J. Murkin

**Microcirculation in MiECC**

M. Moscarelli





## Scientific Programme

**Saturday 30<sup>th</sup> November 2019**

### **Microcirculation and clinical outcome**

C. Ince

**Discussants:** S. Gunaydin, H. Jenni, A. Deliopoulos, I. Condello,  
M. Stehouwer, Y. Ganushchak

**11:45 - 12:45**

### **COMICS trial**

**Moderators:** G. Angelini, K. Anastasiadis, P. Antonitsis

### **Trial Update**

G. Angelini

**Discussants:** T. Carrel, B. Reeves, N. Moorjani, S. Gunaydin,  
M. Moscarelli, A. Liebold, A. El-Essawi, H. Jenni, C. Serrick

**12:45 - 13:00**

### **Closing remarks of 2<sup>nd</sup> MiECT Update Meeting**

**Kyriakos Anastasiadis**, President

**John Murkin**, President MiECTiS / 4<sup>th</sup> MiECT Symposium



**Sponsors:** CSL Behring / GETINGE / Medtronic Hellas SA

# DESIGNED FOR DURABILITY

## THE IMPORTANCE OF CIRCULARITY

### Avalus™ Bioprosthesis



Deformation-resistant base



Flexible stent posts



AOA™ tissue treatment



Avalus bioprosthesis

### VALVE CIRCULARITY ALLOWS FOR PROPERLY FUNCTIONING LEAFLETS

With a valve designed to maintain circularity, there is less stress on leaflet tissue, and the leaflets can properly function — which could result in increased valve durability.<sup>1,2</sup>

Without valve circularity, a patient is at risk of:<sup>1,3</sup>

- Poor blood flow
- Irregular leaflet motion
- Early valve failure

Circularity at the level of coaptation is central to minimizing early bioprosthetic failure. Lack of circularity puts undue strain on the leaflet tissue through uneven stress distribution. This increases risk of early deterioration resulting in decreased durability.<sup>1,4</sup>

### AOA™ TISSUE TREATMENT MITIGATES CALCIFICATION

Avalus™ leaflets are treated with an anticalcification treatment — AOA™ (alpha amino oleic acid) — to mitigate calcification. The proprietary Medtronic AOA tissue treatment has over 20 years of clinical use on Medtronic surgical valves.\*

\*No clinical data are available which evaluates the long-term impact of AOA treatment in patients.

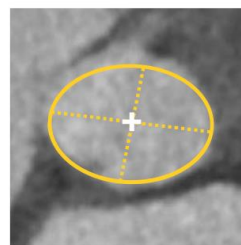
### AVALUS VALVE DESIGN MAINTAINS VALVE CIRCULARITY MAXIMIZES LEAFLET COAPTATION

#### Frame Resists Permanent Deformation

The Avalus™ flexible support frame with firm base is designed to maintain circularity and consistent hemodynamic performance.<sup>2,5</sup> Cerejjo, et al. deduced that there may be a possible relationship between early bioprosthetic calcification and the distortion of the valvular ring.<sup>6</sup>

- Two-part polymer frame minimizes stress zones on leaflets.
- Flexible stent post relieves stress on commissures.

Interior mounted leaflets minimize damaging contact with the frame — a design platform for long-term durability.



#### Supra-annular Placement Maximizes Coaptation

The working portion of the leaflets sits above the native annular level, maximizing leaflet coaptation.<sup>2,5</sup>

