



**ISMCS**

International Society for Mechanical Circulatory Support

**BOLOGNA  
ITALY**

**Royal Carlton Hotel**

**OCTOBER  
21-23  
2019**



**27<sup>th</sup> ANNUAL MEETING**  
**of International Society**  
**for Mechanical Circulatory Support**

**[www.ismcs.org](http://www.ismcs.org)**

# SCIENTIFIC PROGRAM

## OCTOBER 20

- Executive and General Board Meeting
- ISMCS Board Dinner

## OCTOBER 21

Young Investigators pre-Symposium & Awards

Opening Ceremony

### KEYNOTE LECTURE I

Pionering Mechanical Circulatory Support: Current Perspectives

### INVITED LECTURE

How to develop a VAD program, get consence, and improve the running by time

### Engineering Session

MCS development: from design to commercial availability

Invited focused Engineering Lectures

Selected Abstracts (Engineering)

Moderated Posters and Videos

Focused Symposium >Invited Panel

Discussion: Do we need pulsatility?

- The return to the pulse with current centrifugal pumps: the clinical implications
- Who would benefit from physiologically controlled pumps? What do we need ?
- How current technology may provide an adequate pulsatility?

### KEYNOTE LECTURE II

Heart Replacement Therapy: Mechanical, Biological or Regenerative?

### INVITED LECTURE

Low Intermacs profile: surgical or percutaneous interventional treatment ?

Rapid Fire Abstracts (Engineering)

Moderated Posters and Videos

## OCTOBER 22

Sunrise Symposium: New Technologies (short-term)

### Short-term MCS and ECLS Session

Selected Abstracts

### INVITED LECTURES

- ELSO registry report: perspectives
- Cardiogenic shock: ECLS treatment strategies
- Percutaneous VADs: options
- Extracorporeal temporary VAD support: when and how
- Beyond ECLS - Transition to implantable long-term LVAD
- Alternative anticoagulation strategies in MCS

Rapid Fire Abstracts (short-term MCS)

Moderated Posters and Videos

### KEYNOTE LECTURE III

Heart Transplantation vs. Mechanical Circulatory Support: current perspectives

*Lunch MCS Symposium I*

### Program Chair

Antonio Loforte, MD, PhD

S. Orsola Hospital

Department of Cardiothoracic,  
Transplantation and Vascular Surgery  
University of Bologna, Italy

### Program Co-Chair

Francesco Moscato, EngD, PhD

Center for Medical Physics

and Biomedical Engineering

Medical University of Vienna, Austria

## Long-term VAD and TAH session

### Selected Abstracts

#### INVITED LECTURES

- Biocompatibility of current centrifugal pumps: clinical implications
- LVAD hemodynamic optimization
- Minimally-invasive LVAD implantation: should we adopt it as standard?
- The role of temporary RVAD support in implantable LVAD patients
- Continuous-flow implantable BVAD: feasible and reliable?
- Creative solutions for challenging cases
- Concomitant Cardiac Surgery procedures in need at the time of LVAD implantation
- Computational model to analyze mechanical circulatory support work

#### KEYNOTE LECTURE IV

Total Artificial Heart: temporary bridge or definitive solution?

Rapid Fire Abstracts (long-term VAD & TAH)

Moderated Posters and Videos

#### INVITED LECTURES

- Do we still need to support the RV? If yes, when?
- TET and peripheral tools needs in MCS
- The biocompatibility evaluation process in MCS

MCS registries in the world

- INTERMACS/STS
- EUROMACS/IMACS/ISHLT
- MCS SE Asia/Singapore
- J-MACS in Japan
- MCS in India

**Conference Dinner**

## OCTOBER 23

Sunrise Symposium

New Technologies (long-term)

#### KEYNOTE LECTURE V

Artificial Organs in Children: historical and current perspectives

#### INVITED LECTURES

- PEDIMACS Registry: an update
- Total Artificial Heart therapy in pediatrics
- An open window towards permanent support with infant pumps
- LVAD implantation in congenital heart disease
- Heart Transplantation or MCS in congenital heart disease ?

Selected Abstracts (Pediatrics)

Moderated Posters and Videos

#### KEYNOTE LECTURE VI

Bioengineering perspectives in pediatrics

#### INVITED LECTURE

Pediatric VAD outpatients management

### **Lunch MCS Symposium II**

Closing Remarks, new President ceremony and address

### **ISMCS program outline**

- ISMCS/ICCAC MCS proficiency verification course (MPV)  
October 23
- Wet-Lab: VAD/ECLS training implantation  
October 22

# INTERNATIONAL FACULTY

*(preliminarily)*

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A. Amodeo (Rome, Italy)  
E. Angelì (Bologna, Italy)  
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D. Zimpfer (Wien, Austria)