



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

Under the patronage of



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
SCUOLA DI MEDICINA E CHIRURGIA

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

## 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, ENG D, PH D**

Center for Medical Physics  
and Biomedical Engineering  
Medical University of Vienna  
Austria

## ISMCS BOARD OF TRUSTEES

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## ISMCS SCIENTIFIC COMMITTEE

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T. Kaufmann (Aachen, Germany)  
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## LOCAL ORGANIZING COMMITTEE

G. Gargiulo (Bologna, Italy)  
D. Pacini (Bologna, Italy)  
G. Frascaroli (Bologna, Italy)  
E. Angeli (Bologna, Italy)  
S. Martin-Suarez (Bologna, Italy)  
M. Baiocchi (Bologna, Italy)  
M. Masetti (Bologna, Italy)  
L. Potena (Bologna, Italy)  
A. Loforte (Bologna, Italy)  
R. Di Bartolomeo (Bologna, Italy)

## ISMCS PROGRAM OUTLINE

ISMCS/ICCAC MCS Proficiency  
Verification Course 2019

**October 23, 08.00-12.00**

### Chairs

T. Schlöglhofer, D. Christensen

### VAD Coordinator Faculty

J. Beckman, T. Berg, F. Kaufmann  
H. Moody, S. Schroeder, A. Thomas

RHICS 18th Expert Forum  
'Heart Failure Surgical  
Options'

**October 23, 08.00-12.00**

E.M. Delmo Javier  
Secretary General, RHICS Society

# PRELIMINARY SCIENTIFIC PROGRAM

## OCTOBER 20

09.00-12.00 **Executive Board Meeting**

13.00-17.00 **General Board Meeting**

*The meetings will be hosted by  
Società Medica Chirurgica di Bologna  
(Palazzo dell'Archiginnasio - Piazza Galvani, 1)*

## OCTOBER 21

07.45-10.00 **Young Investigators  
pre-Symposium & Awards**

CHAIRS: T. KAUFMANN, T. SCHLÖGLHOFER

10.00-10.30 **Coffee & Poster Exhibition 1**

10.30-11.00 **Opening Ceremony**

CHAIRS: A. LOFORTE, F. MOSCATO, C. SIVATHASAN,  
D. PACINI

11.00-12.00 **H. REUL Session**

CHAIRS: U. STEINSEIFER, M. SLEPIAN, M. MACCHERINI

12.00-12.30 **Keynote Lecture I**

CHAIRS: M. LOEBE, A. LOFORTE

**PIONEERING MECHANICAL CIRCULATORY SUPPORT (USA)**

O.H. FRAZIER

**PIONEERING MECHANICAL CIRCULATORY SUPPORT  
(EUROPE)**

R. HETZER

12.30-13.00 **Round Table I**

**WHY AND HOW TO DEVELOP A VAD PROGRAM,  
GET CONSCIENCE, AND IMPROVE THE RUNNING BY TIME**

CHAIR: J. LONG

M. ONO, C. HAYWARD, L. POTENA, P. MOHACSI,

G. WIESELTHALER, D. CHRISTENSEN

13.00-13.30 **ISMCS Welcome by Authorities**

CHAIRS: R. DI BARTOLOMEO, M. GARGIULO

13.30-14.30 **Lunch MCS Symposium I**

CHAIRS: U. JORDE, M. RINALDI, M. MASSETTI

- Pulsatility: 'Argument for' and 'Biologic Consequences Without'  
M. SLEPIAN
- Haemodynamics of pulsatile and continuous flow pumps  
H. SCHIMA
- The return to the pulse with current centrifugal pumps: clinical implications  
W. DEMBITSKY
- How current technology may provide an adequate pulsatility?  
T. MOTOMURA

14.30-15.00 **Invited Lectures**

**DEVICE DEVELOPMENT**

CHAIRS: A. MOLteni, M. SLAUGHTER, T. TSUKIYA

- MCS development: from design to commercial availability  
U. STEINSEIFER
- Pushing towards a 'mechanical' rotary Total Artificial Heart concept  
D. TIMMS
- Pushing towards a 'biological' Total Artificial Heart concept  
G. GEROSA

15.00-16.00 **Selected Abstracts 1**

**DEVICE DEVELOPMENT**

CHAIRS: A. MOLteni, K. FUKAMACHI, V. TARZIA

16.00-16.30 **Coffee & Poster Exhibition 2**

16.30-17.00 **Keynote Lecture II**

CHAIRS: L. POTENA, M. LOEBE

**HEART REPLACEMENT THERAPY: MECHANICAL,  
BIOLOGICAL OR REGENERATIVE?**

D. TAYLOR / COMMENT BY M. LOEBE

17.00-17.30 **Invited Lectures**

**PARTIAL SUPPORT**

CHAIRS: K. SUNAGAWA, R. WESTENFELD, C. RUSSO

- Surgical or percutaneous interventional treatment?  
B. MEYNS
- Percutaneous VADs: options  
G. LEBRETON
- Novel solutions and applications  
A. FIANE

17.30-18.30 **Selected Abstracts 2**

**PARTIAL SUPPORT**

CHAIRS: T. SIESS, R. WESTENFELD, M. ATTISANI

18.30-19.30 **Poster Exhibition 3**

18.30-19.30 **ISMCS General Assembly**

## OCTOBER 22

08.00-09.00 **Invited Lectures**

### SHORT-TERM MCS AND ECLS

CHAIRS: F. MUSUMECI, A. EL BANAYOSY, A. OUATTARA

- ELSO registry report: perspectives  
R. LORUSSO
- Cardiogenic shock: ECLS treatment strategies  
F. PAPPALARDO
- Beyond ECLS - Transition to implantable long-term LVAD  
D. SAEED
- Donor hearts preservation and assessment with Organ Care System  
S. TSUI
- Extracorporeal Circulation Circuits in Surgery: look at History to get the Present  
L. DI MARCO

09.00-10.00 **Selected Abstracts 3**

### SHORT-TERM MCS AND ECLS

CHAIRS: S. SONNTAG, A. MONTALTO, S. MARTIN-SUAREZ

10.00-10.30 **Rapid fire / Poster**

### SHORT-TERM MCS AND ECLS

CHAIRS: T. TSUKIYA, S. SCIACCA, E. PILATO

10.30-11.00 **Coffee & Poster exhibition 4**

11.00-12.00 **Invited lectures**

### LONG-TERM VAD

CHAIRS: A. LOFORTE, S. SCHUELER, C. AMARELLI

- Concomitant Cardiac Surgery procedures in need during LVAD implantation  
W. DEMBITSKY
- Minimally-invasive LVAD implantation: should we adopt it as standard?  
J. SCHMITTO
- How to deal with preoperative and postoperative RV function  
D. ZIMPFER
- Continuous-flow BVAD: feasible and reliable?  
E. POTAPOV
- LVAD hemodynamic optimization  
N. URIEL

12.00-12.30 **Keynote lecture III**

CHAIRS: C. SIVATHASAN, G. FAGGIAN

### HEART TRANSPLANTATION VS. MECHANICAL CIRCULATORY SUPPORT: CURRENT PERSPECTIVES

M. SLAUGHTER / COMMENT BY M. FRIGERIO

12.30-13.00 **Round table II**

### MCS REGISTRIES IN THE WORLD

CHAIR: B. MEYNS

### INTERMACS/STS, EUROMACS, MCS Asia/Pacific, MCS in Japan

R. KORMOS, T. DE BY, C. SIVATHASAN, J. LONG, M. ONO, F. GRIGIONI

13.00-13.30 **Poster exhibition 5**

13.30-14.30 **Lunch MCS Symposium II**

CHAIRS: C. MAHR, L. KLEIN, M. PILATO

- LVAD therapy: long-term outcomes and challenges  
R. KORMOS
- LVAD adverse events: still a debate  
U. JORDE
- Adult LVAD systems reliability for pediatric population  
A. LORTS
- LVAD concept as monitoring system  
F. MOSCATO
- Telemonitoring and smart systems I  
L. KLEIN

14.30-15.30 **Invited lectures**

### HEMOCOMPATIBILITY

CHAIRS: G. WIESELTHALER, M. SLEPIAN, U. LIVI

- "It's Hemocompatibility", "Not Thrombosis and/or Bleeding"  
M. SLEPIAN
- AVWS and beyond  
C. BARTOLI
- Biocompatibility of current continuous and pulsatile pumps  
I. NETUKA
- Human Interface and Usability associated with MCS  
T. SCHLÖGLHOFER

15.30-16.30 **Selected abstracts 4**

### HEMOCOMPATIBILITY

CHAIRS: J. KARIMOV, U. KERTSCHER, A. IACOVONI

16.30-17.00 **Coffee & Poster exhibition 6**

17.00-17.30 **Keynote lecture IV**

CHAIRS: P. LEPRINCE, M. MORSHUIS, G. GEROSA

### EUROPEAN SPACE AGENCY PROJECTS

T. GHIDINI

17.30-18.00 **Invited lectures**

### TOTAL ARTIFICIAL HEART

CHAIRS: P. LEPRINCE, M. MORSHUIS, G. GEROSA

- Total Artificial Heart: temporary bridge or definitive solution?  
J. COPELAND
- New Total Artificial Heart Systems  
P. LEPRINCE
- The 'Cleveland' TAH concept  
K. FUKAMACHI

18.00-19.00 **Selected abstracts 5**

### LONG-TERM VAD & TAH

CHAIRS: D. TIMMS, M. MASETTI, G. DI GIAMMARCO

20.30 **Conference Dinner (Awards)**

# PRELIMINARY SCIENTIFIC PROGRAM

## OCTOBER 23

08.00-09.00 **Invited lectures**

### PEDIATRICS

CHAIRS: G. GARGIULO, C. PACE NAPOLEONE,  
A. LORTS

- PEDIMACS Registry: outcomes  
C. VANDERPLUYM
- Total Artificial Heart therapy  
in pediatrics  
D. MORALES
- An open window towards permanent  
support with infant pumps  
A. AMODEO
- Pediatric VAD outpatients management  
J. CONWAY
- Heart Transplantation or MCS  
in congenital heart disease?  
A. HASAN

09.00-10.00 **Selected abstracts 6**

### PEDIATRICS

CHAIRS: M. SCHWEIGER, L. GALLETTI, E. ANGELI

10.00-10.30 **Rapid fire / Poster**

### PEDIATRICS

CHAIRS: M. SCHWEIGER, L. CAREDDU, E. PILATO

10.30-11.00 **Coffee & Poster exhibition 7**

11.00-11.30 **Keynote lecture V**

CHAIRS: A. LORTS, M. PADALINO, J. KARIMOV

### HISTORY AND INNOVATIONS IN PUMP DEVELOPMENT FOR CONGENITAL HEART DISEASE

K. DASSE

11.30-12.00 **Invited lectures**

### SIMULATION

CHAIRS: M. SLEPIAN, G. TANSLEY

- CFD blood flow simulation: strengths  
and limitations  
A. REDAELLI
- Impact of LVAD cannulation on blood  
flow and stagnation  
A. ALISEDA
- Challenging solutions in congenital  
heart disease  
M. GRANEGGER

12.00-13.00 **Selected abstracts 7**

### SIMULATION

CHAIRS: M. GRANEGGER, G. TANSLEY

13.00-13.30 **Poster exhibition 8**

13.30-14.30 **Lunch MCS symposium III**

CHAIRS: N. URIEL, I. NETUKA, M. FRIGERIO

- Tips and tricks for VAD placement and removal  
E. POTAPOV
- Technical solutions in congenital  
heart disease  
A. HASAN
- LVAD therapy for all?  
W. DEMBITSKY
- Myocardial Recovery: What Have We  
Learned and Future Directions  
S. DRAKOS
- Telemonitoring and smart systems II  
K. BOURQUE

14.30-15.00 **Keynote lecture VI**

CHAIRS: F. MOSCATO, T. MASUZAWA

### NEUROPROSTHETICS AND BIONICS, FROM FICTION TO SCIENCE

S. MICERA

15.00-15.40 **Invited lectures**

### SMART PUMPING, MONITORING, CONTROL

CHAIRS: H. SCHIMA, F. CONSOLO, A. DI MOLFETTA

- Exercise limits in LVAD patients: insight  
from haemodynamic simulations  
L. FRESIELLO
- In-vitro modelling for pump control  
evaluation: strengths and limitations  
S. GREGORY
- Elimination of driveline: percutaneous  
energy transmission projects  
G. WIESELTHALER
- New Technologies and wearables for MCS  
M. SLEPIAN

15.40-16.40 **Selected abstracts 8**

### SMART PUMPING, MONITORING, CONTROL

CHAIRS: J. KARIMOV, F. CONSOLO, A. DI MOLFETTA

16.40-17.00 **Coffee & Poster exhibition 9**

17.00-18.15 **Invited lectures**

### DEVICES UPDATE

CHAIRS: J. LONG, M. ONO, M. BAIOCCHI

18.15-18.30 **Closing ceremony**

A. LOFORTE, A. EL BANAYOSY

# INTERNATIONAL FACULTY

*(preliminarily)*

A. Aliseda (Washington DC, USA)  
C. Amarelli (Naples, Italy)  
A. Amodeo (Rome, Italy)  
E. Angeli (Bologna, Italy)  
M. Attisani (Turin, Italy)  
M. Baiocchi (Bologna, Italy)  
C. Bartoli (Pittsburgh, PA, USA)  
K. Bourque (Charleston, SC, USA)  
L. Careddu (Bologna, Italy)  
D. Christensen (Philadelphia, PA, USA)  
F. Consolo (Milan, Italy)  
J. Conway (Alberta, Canada)  
J. Copeland (San Diego, CA, USA)  
K. Dasse (Louisville, KY, USA)  
T. De By (Windsor, UK)  
W. Dembitsky (San Diego, CA, USA)  
R. Di Bartolomeo (Bologna, Italy)  
G. Di Giammarco (Chieti, Italy)  
L. Di Marco (Bologna, Italy)  
A. Di Molfetta (Rome, Italy)  
S. Drakos (Salt Lake City, UT, USA)  
A. El Banayosy (Oklahoma City, OK, USA)  
G. Faggian (Verona, Italy)  
A. Fiane (Oslo, Norway)  
O.H. Frazier (Houston, TX, USA)  
L. Fresiello (Leuven, Belgium)  
M. Frigerio (Milan, Italy)  
K. Fukamachi (Cleveland, OH, USA)  
L. Galletti (Bergamo, Italy)  
G. Gargiulo (Bologna, Italy)  
M. Gargiulo (Bologna, Italy)  
G. Gerosa (Padua, Italy)  
T. Ghidini (Milan, Italy)  
M. Granegger (Zurich, Switzerland)  
S. Gregory (Melbourne, Australia)  
F. Grigioni (Rome, Italy)  
A. Hasan (Newcastle, UK)  
C. Hayward (Sidney, Australia)  
R. Hetzer (Berlin, Germany)  
A. Iacovoni (Bergamo, Italy)  
U. Jorde (New York City, USA)  
J. Karimov (Cleveland, OH, USA)  
T. Kaufmann (Aachen, Germany)  
U. Kertscher (Berlin, Germany)

L. Klein (San Francisco, CA, USA)  
R. Kormos (Pittsburgh, PA, USA)  
G. Lebreton (Paris, France)  
P. Leprince (Paris, France)  
U. Livi (Udine, Italy)  
M. Loebe (Miami, FL, USA)  
A. Loforte (Bologna, Italy)  
J. Long (Oklahoma City, OK, USA)  
A. Lorts (Cincinnati, OH, USA)  
R. Lorusso (Maastricht, Netherlands)  
M. Maccherini (Siena, Italy)  
C. Mahr (Seattle, WA, USA)  
S. Martin-Suarez (Bologna, Italy)  
M. Masetti (Bologna, Italy)  
M. Masetti (Rome, Italy)  
T. Masuzawa (Ibaraki, Japan)  
B. Meyns (Leuven, Belgium)  
S. Micera (Pisa, Italy)  
P. Mohacsi (Bern, Switzerland)  
A. Molteni (London, UK)  
A. Montalto (Rome, Italy)  
D. Morales (Cincinnati, OH, USA)  
M. Morshuis (Bad Oeynhausen, Germany)  
F. Moscato (Vienna, Austria)  
T. Motomura (Houston, TX, USA)  
F. Musumeci (Rome, Italy)  
I. Netuka (Prague, Czech Republic)  
M. Ono (Tokyo, Japan)  
A. Ouattara (Bordeaux, France)  
C. Pace Napoleone (Turin, Italy)  
D. Pacini (Bologna, Italy)  
M. Padalino (Padua, Italy)  
F. Pappalardo (Milan, Italy)  
E. Pilato (Naples, Italy)  
M. Pilato (Palermo, Italy)  
E. Potapov (Berlin, Germany)  
L. Potena (Bologna, Italy)  
A. Redaelli (Milan, Italy)  
M. Rinaldi (Turin, Italy)  
C. Russo (Milan, Italy)  
D. Saeed (Dusseldorf, Germany)  
H. Schima (Wien, Austria)  
T. Schlöglhofer (Wien, Austria)  
J. Schmitto (Hannover, Germany)

S. Schueler (Newcastle, UK)  
M. Schweiger (Zurich, Switzerland)  
S. Sciacca (Palermo, Italy)  
T. Siess (Danvers, MA, USA)  
C. Sivathanan (Singapore)  
M. Slaughter (Louisville, KY, USA)  
M. Slepian (Tucson, AZ, USA)  
S. Sonntag (Aachen, Germany)  
U. Steinseifer (Aachen, Germany)  
K. Sunagawa (Kyushu, Japan)  
G. Tansley (Griffith, Australia)  
V. Tarzia (Padua, Italy)  
D. Taylor (Houston, TX, USA)  
D. Tchanchaleishvili (Philadelphia, PA, USA)  
D. Timms (Houston, TX, USA)  
S. Tsui (Cambridge, UK)  
T. Tsukiya (Osaka, Japan)  
N. Uriel (Chicago, IL, USA)  
C. VanderPluym (Boston, MA, USA)  
R. Westenfeld (Dusseldorf, Germany)  
G. Wieselthaler (San Francisco, CA, USA)  
D. Zimpfer (Vienna, Austria)

### **VAD Coordinator Faculty**

J. Beckman (Seattle, WA, USA)  
T. Berg (Aachen, Germany)  
F. Kaufmann (Berlin, Germany)  
H. Moody (Louisville, KY, USA)  
S. Schroeder (Lincoln, NE, USA)  
A. Thomas (Portland, OR, USA)

# GENERAL INFORMATION

## CONGRESS VENUE

### Royal Carlton Hotel

Via Montebello, 8 - 40121 Bologna (Italy)

The Hotel is in the centre of Bologna, just a short walk from Piazza Maggiore and the Two Towers.

### How to get to Bologna

#### By Plane

Several airlines connect Bologna with many Italian and foreign cities.

The international airport "G. Marconi" is located just 5 km from the Congress Venue and the city centre, about 15 minutes by taxi.

Taxi: +39 051.372727 - +39 051 4950

#### By Train

The Bologna Central Station is one of the largest railway interconnections in both Italy and Europe. It is a 5 minutes walking from Royal Carlton Hotel.

#### By Car

The Royal Carlton Hotel is in the centre of Bologna, outside the restricted traffic zone.

From motorway A1, A13, A14: from the ring road exit n. 7 (Via Stalingrado) or exit Bologna Fiera direction city centre of Bologna.

To reach the Hotel using satellite navigation, it should be set for Via Milazzo 6 to avoid the restricted traffic zone.

A toll parking is available inside the hotel.

## REGISTRATION

Online registration at [www.noemacongressi.it](http://www.noemacongressi.it)

### Registration fees

#### ISMCS Member

##### EARLY REGISTRATION

€ 350,00 + VAT (€ 427,00 VAT included)

##### LATE REGISTRATION

€ 450,00 + VAT (€ 549,00 VAT included)

#### ISMCS NON Member

##### EARLY REGISTRATION

€ 400,00 + VAT (€ 488,00 VAT included)

##### LATE REGISTRATION

€ 500,00 + VAT (€ 610,00 VAT included)

#### Nurse/Perfusionist/Resident

€ 190,00 + VAT (€ 231,80 VAT included)

#### Student

€ 105,00 + VAT (€ 128,10 VAT included)

#### 1 Day Registration

€ 200,00 + VAT (€ 244,00 VAT included)

#### ISMCS/ICCAC MCS Proficiency Course (MPV)

##### PHYSICIANS

€ 120,00 + VAT (€ 146,40 VAT included)

##### NURSE/ENGINEER

€ 80,00 + VAT (€ 97,60 VAT included)

### Registration fee include

#### Congress

- Access to the Scientific sessions of the Congress
- Congress kit
- Certificate of attendance
- Coffee break and lunch

#### ISMCS/ICCAC MCS Proficiency Course (MPV)

- Access to the Course
- Course kit
- Certificate of attendance
- Coffee break



## HOTEL RESERVATION

It is possible to make an online reservation at [www.noemacongressi.it](http://www.noemacongressi.it) together with the registration at the Congress.

A number of rooms have been booked for Congress participants at the hotels listed below.

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### ROYAL HOTEL CARLTON 4\*

Via Montebello, 8 - 40121 Bologna

Ph.: +39 051 249361

DUS: € 139,00

Double: € 169,00

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### STARHOTEL EXCELSIOR 4\*

Viale P. Pietramellara, 51 - 40121 Bologna

Ph.: +39 051 246178

DUS: € 150,00

Double: € 170,00

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### HOTEL INTERNAZIONALE 4\*

Via dell'Indipendenza, 60 - 40121 Bologna

Ph.: +39 051 245544

DUS: € 139,00

Double: € 169,00

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### HOTEL TRE VECCHI 4\*

Via dell'Indipendenza, 47 - 40121 Bologna

Ph.: +39 051 231991

DUS: € 120,00

Double: € 140,00

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### HOTEL MERCURE BOLOGNA CENTRO 4\*

Viale P. Pietramellara, 59 - 40121 Bologna

Ph.: +39 051 42211

DUS: € 125,00

Double: € 140,00

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Rooms will be assigned on a first-come first-served basis depending on availability. Confirmation will be sent to each applicant.

Please note that tourist tax have to be paid directly at check-out.

## OFFICIAL LANGUAGE

The official language of the Congress is English.

## EXHIBITION AREA

A technical exhibition will take place throughout the Congress. For information, please contact [f.geminiani@noemacongressi.it](mailto:f.geminiani@noemacongressi.it)

## SOCIAL PROGRAM

Conference Dinner will take place on October 22. Further information will follow soon.

Fee: € 45,00 + VAT (€ 54,90 VAT incl.)

# ABSTRACT SUBMISSION

The ISMCS Congress Committee invites participants to submit abstracts of original and unpublished works for oral, poster and/or rapid fire presentations.

All abstracts must be formally submitted via the online abstract submission system.

To submit an abstract, fill in the form at [www.noemacongressi.it](http://www.noemacongressi.it) and follow the instructions.

## Submission deadline

June 14, 2019 (Fri) 11.59 pm

Italian time (GMT +1)

Abstracts received after this date will not be accepted.

**Language:** English only

## Types of Presentation

All authors should be prepared to do an oral or poster presentation. However, if you would like to be excluded from oral presentations, please check the appropriate box in the Abstract Submission Form.

The Scientific Program Committee of the ISMCS 2019 reserves the right to assign a different presentation format from the one selected by the presenting author.

- **Free Paper Presentation:** a selection of abstracts will be accepted for oral presentation during the Free Paper sessions. Presenters will be given 8 minutes to present their research findings and 2 minutes for discussion.
- **Poster Presentation:** participants are also encouraged to submit their work as a poster presentation that promotes direct exchange of ideas between presenter and delegates. Posters will be set up in a dedicated area.

## Abstract Receipt Confirmation

Upon successful submission, authors will receive an automated acknowledgment via email. Lack of acknowledgment will indicate that the abstract was not received.

## Notification of Acceptance

The Presenting Author of each abstract accepted for publication will be notified by email **by the end of July, 2019**.

If the presenting author is unable to present the abstract, a co-author can take his/her place.

## Withdrawal

Submitted abstracts cannot be withdrawn unless with valid reason(s) approved by the Scientific Committee.

## Originality of Abstracts

Submitted abstracts must describe unpublished work.

## Publication

Abstracts will be published exactly as submitted. Any abstract considered unsuitable for reproduction will not be published. In cases of abstracts with extremely poor English, the Abstract Selection Committee reserves the right to modify the submitted text. The Abstract Selection Committee however will make every effort in these instances not to alter the meaning of the text and will contact the submitting authors prior to publication.

All abstracts accepted for presentation (either oral or poster) will be published only if payment of registration has been made **by September 6, 2019**.

All accepted abstracts will be encouraged to send a full manuscript for Artificial Organs ISMCS Official Journal.

## **Awards**

Following tradition a number of awards are to be presented at the 27th Annual Meeting of the ISMCS in Bologna.

### **Helmut Reul Young Investigator Award**

This award is open to young investigators below 35 years old, who have submitted at least one successful abstract.

The top 5 scorers of the abstracts will make their presentations on Day 1, after the Opening Ceremony. The judges appointed by the Board will select the award winner. The winner will receive US \$1,000.

### **Sezai Award**

The award is granted to the individual who contributes to the most innovative paper. There is no age restriction for this award. The winner will receive US \$500

### **Asia Pacific ISMCS**

#### **Young Investigator Award**

This award is open to young investigators below 35 years old from Asia Pacific to promote rotary blood technology in Asia Pacific. The award will be based on scores given by the Organizing Committee.

### **ISMCS Poster Award**

The best poster will be decided upon the judges selected from the Board members.

### **ICMT Award**

This prestigious award is bestowed to the Company that has given the most significant contribution to the advancement of the field.

## **Abstracts and Conference Proceedings published by ISMCS Official Journal**

Artificial  
Organs



## ENDORSED BY



## ORGANIZING SECRETARIAT

**N O E M A**

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