



**EUMS**

**MCS - CRM**

Paris - Vienna - Hannover



**ISMCS**

**16<sup>th</sup>**

**EUROPEAN MECHANICAL  
CIRCULATORY SUPPORT SUMMIT**

**INTERNATIONAL SOCIETY FOR  
MECHANICAL CIRCULATORY SUPPORT**

Multidisciplinary Approach  
Heart Failure - Device Therapies

*Final program*

MAY  
24 - 27  
2022

WITH SUPPORT OF THE JOURNAL

Artificial  
Organs



Conference center Schloss Herrenhausen  
**HANNOVER GERMANY**

[www.congresseums.com](http://www.congresseums.com)



Dear Colleagues and friends,

We are pleased to welcome you to EUMS-ISMCS joint scientific conference with the common goal to share knowledge and mutually discuss evidence, experiences, trends, perspectives and visions for the future mechanical circulatory support.

Yours faithfully, on behalf of the whole scientific and local committee,

**Prof. Dr. Jan D. Schmitto**

*(President of the EUMS-Society 2022)*

### SCIENTIFIC COMMITTEE

J. Bauersachs, Hannover - GER  
A. El Banayosy, Oklahoma City - USA  
G. Dogan, Hannover - GER  
L. Fresiello, Enschede - NLD  
A. Haverich, Hannover - GER  
J. Karimov, Cleveland - USA  
G. Laufer, Vienna - AUT  
A. Loforte, Bologna - ITA  
F. Moscato, Vienna - ITA  
P. Leprince, Paris - FRA  
J. D. Schmitto, Hannover - GER  
T. Schoegelhofer, Vienna - AUT  
M. Slepian, Tucson - USA  
G. Tansley, Gold Coast - AUS  
D. Zimpfer, Vienna - AUT

### LOCAL ORGANIZATION COMMITTEE

J. Bauersachs, Hannover - GER  
D. Berliner, Hannover - GER  
E. Deniz, Hannover - GER  
G. Dogan, Hannover - GER  
J. Hanke, Hannover - GER  
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K. Stelter, Hannover - GER  
A. Schöde, Hannover - GER  
J. D. Schmitto, Hannover - GER

### LOGISTICS ORGANISATION AND PARTNERSHIP

OVERCOME

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### LOCATION: CONFERENCE CENTER SCHLOSS HERRENHAUSEN

Herrenhauser St. 5 - 30419 HANNOVER, Germany

## MONDAY, MAY 23

9:00-13:00 Workshop: Hands-on-animal-training: VAD-implantation in cooperation with CORZA Medical at the campus of Hannover Veterinary School of Medicine, Hannover

## TUESDAY, MAY 24

|                | AUDITORIUM<br>Lower level | ROOM 4<br>Ground floor                               | ROOM 6<br>Lower floor                         | BOARDROOM<br>Upper level                       | EXHIBITION<br>Upper level |
|----------------|---------------------------|--|---|--|---------------------------|
| 09:30<br>11:00 |                           | Role<br>of the VAD<br>Coordinator<br>+<br>Management |   | 10.00 - 12.00<br>ISMCS<br>Executive<br>meeting |                           |
| 11:00<br>12:00 |                           |  |   |  |                           |
| 12:00<br>12:15 | Coffee Break              |  |   |  |                           |
| 12:15<br>13:15 |                           | Technical<br>supervision<br>in times<br>of COVID-19  |   |  |                           |
| 13:15<br>14:00 | Lunch Break               |  |   |  |                           |
| 14:00<br>15:00 |                           |  | 13.00 -16.00<br>ISMCS<br>Board<br>of Trustees |  |                           |
| 15:00<br>17:45 |                           | Driveline<br>Infection /Patient<br>Management        |   |  |                           |

# WEDNESDAY, MAY 25

|                | AUDITORIUM<br>Lower level                         | ROOM 1<br>Ground floor | ROOM 2<br>Ground floor | ROOM 3<br>Ground floor | ROOM 4<br>Ground floor  | ROOM «ECHO»<br>Lower level                    | EXHIBITION<br>Upper level |            |
|----------------|---|------------------------|------------------------|------------------------|---|---|---------------------------|------------|
| 09:00<br>10:30 | EUMS<br>ISMCS-ESAO                                | Trainings<br>Village   | Trainings<br>Village   | VAD-Village            |   |   | Exhibition                |            |
| 10:30<br>11:00 | Coffee Break                                      |                        |                        |                        |   | Coffee Break                                  |                           |            |
| 11:00<br>13:00 | RVAD<br>and<br>BIVAD                              | Trainings<br>Village   | Trainings<br>Village   | VAD-Village            | Patientag:<br>Leben mit einem<br>Herzunterstüt-<br>zungssystem            |   | Exhibition                |            |
|                |   |                        |                        |                        | 12.30-13.30<br>Patientag:<br>Rund um das<br>Herzunterstüt-<br>zungssystem |   |                           |            |
| 13:15<br>14:15 | Cytosorbents<br>lunch<br>symposium                |                        |                        |                        |   |   |                           |            |
| 14:15<br>15:15 | Short-term<br>support                             | Trainings<br>Village   | Trainings<br>Village   | VAD-Village            |   |   | Exhibition                |            |
| 15:15<br>16:45 | Recovery  | Trainings<br>Village   | Trainings<br>Village   | VAD-Village            | 15:00-16:00<br>Patientag: VAD<br>als Brücke zur<br>Transplantation        | 15:30-17:00<br>Echo-course on<br>VAD-patients | Exhibition                |            |
| 16:45<br>17:15 | Coffee Break                                      |                        |                        |                        |   |   |                           |            |
| 17:15<br>19:15 | Joint<br>EUMS-ISMCS<br>Opening<br>Ceremony        |                        |                        |                        |   |   |                           | Exhibition |
| 19:30<br>22:00 | Welcome cocktail reception in the exhibition area |                        |                        |                        |   |   |                           |            |

THURSDAY, MAY 26

|                | AUDITORIUM<br>Lower level   | ROOM 1<br>Ground floor | ROOM 2<br>Ground floor | ROOM 3<br>Ground floor | ROOM 4<br>Ground floor              | EXHIBITION<br>Upper level |
|----------------|---|------------------------|------------------------|------------------------|-------------------------------------|---------------------------|
| 07:30<br>08:30 | Abbott symposium  |                        |                        |                        |                                     |                           |
| 08:30<br>10:00 | VAD Session   | Trainings Village      | Trainings Village      | VAD-Village            |                                     | Exhibition                |
| 10:00<br>10:30 | Coffee Break  |                        |                        |                        |                                     |                           |
| 10:30<br>12:00 | Pro/Cons Debates 1 ISMCS  | Trainings Village      | Trainings Village      | VAD-Village            | Rapid-Fire Abstract Session         | Exhibition                |
| 12:15<br>13:15 | Carmat lunch symposium  |                        |                        |                        |                                     |                           |
| 13:15<br>14:45 | Interdisciplinary session EUMS / ISMCS and EACTAIC Perioperative management of ventricular assist devices | Trainings Village      | Trainings Village      | VAD-Village            | 13.30 -14.30 ISMCS General Assembly | Exhibition                |
| 14:45<br>15:15 | Coffee Break  |                        |                        |                        |                                     |                           |
| 15:15<br>16:45 | Acute session: short term   |                        |                        |                        |                                     |                           |
| 16:45<br>18:30 | VAD updates   | Trainings Village      | Trainings Village      | VAD-Village            |                                     | Exhibition                |

# FRIDAY, MAY 27

|                | AUDITORIUM<br>Lower level            | ROOM 1<br>Ground floor | ROOM 2<br>Ground floor | ROOM 3<br>Ground floor | ROOM 4<br>Ground floor                              | ROOM<br>«Echo»<br>Lower level                | BOARDROOM<br>Upper level                      | EXHIBITION<br>Upper level |
|----------------|--------------------------------------|------------------------|------------------------|------------------------|---|--|---|---------------------------|
| 08:30<br>10:00 | MCS under the hood                   | Trainings Village      | Trainings Village      | VAD-Village            | 09:30 - 11:45<br>Joint-EUMS<br>Perfusionist Meeting |  |   | Exhibition                |
| 10:00<br>10:30 | Coffee Break                         |                        |                        |                        |   |  | Coffee Break                                  |                           |
| 10:30<br>12:30 | TAH update                           | Trainings Village      | Trainings Village      | VAD-Village            | 13:30 - 15:30<br>Joint-EUMS<br>Perfusionist Meeting | 11:00 - 12:00<br>Echo-course on VAD patients |   | Exhibition                |
| 12:45<br>13:45 | Abiomed lunch symposium              |                        |                        |                        |   |  |   |                           |
| 13:45<br>14:45 | Market development and Future of MCS | Trainings Village      | Trainings Village      | VAD-Village            |   |  |   | Exhibition                |
| 14:45<br>15:15 | Coffee Break                         |                        |                        |                        |   |  |   |                           |
| 15:15<br>16:45 | Future Technologies                  | Trainings Village      | Trainings Village      | VAD-Village            | 15:30 - 18:00<br>Joint EUMS<br>KFO Meeting          |  |   | Exhibition                |
| 16:45<br>17:45 | EUMS-ISMCS Closing ceremony          |                        |                        |                        |   |  |   |                           |
| 18:00<br>19:00 |                                      |                        |                        |                        |   |  | ISMCS Strategy meeting for board members only |                           |

09:30 CEST  
12:00

**VAD COORDINATOR MEETING  
ROLE OF THE VAD COORDINATOR AND MANAGEMENT**

*Chairs: S. Mariani, Maastricht - BEL, A. Schöde, Hannover - GER*

Room 4

- Welcome and Overview *J. D. SCHMITTO, HANNOVER - GER*
- The Role of the VAD Coordinator: US Perspective *J. WU, SAN FRANCISCO - USA*
- The Role of the VAD Coordinator: EU Perspective *A. SCHÖDE, HANNOVER - GER*
- Anticoagulation Practices in LVAD Patients *F. MÜLLER, HOMBURG - GER*
- Special patients - special databases *S. FISCHER, HANNOVER - GER*
- Inflow Cannula Position as Risk Factor for Hemocompatibility Related Adverse Events in LVAD Patients *T. SCHLÖGLHOFER, VIENNA - AUT*

10:00 CEST  
12:00

**ISMCS EXECUTIVE MEETING**

BOARDROOM

12:15 CEST  
13:15

**VAD COORDINATOR MEETING  
TECHNICAL SUPERVISION IN TIMES OF COVID-19**

*Chairs: A. El Banayosy, Oklahoma City - USA, T. Schlöglhofer, Vienna - AUT, J. Wu, San Francisco - USA*

Room 4

- Enhanced technical patient management: logfiles, acoustic analysis and more *F. KAUFMANN, BERLIN - GER*
- Telemonitoring VAD patients COVID-19 *V. LAUENROTH, BAD OEYENHAUSEN - GER*
- "Patients first" - digital LVAD patient and first responder engagement software *J. HAJJ, CHARLESTON - USA*

13:00 CEST  
16:00

**ISMCS BOARD OF TRUSTEES**

Room 6

15:00 CEST  
17:45

Room 4

**VAD COORDINATOR MEETING  
DRIVELINE INFECTION /PATIENT MANAGEMENT**

***Chairs:*** *A. Loforte, Bologna - ITA, H. Niehaus, Hannover - GER, F. Müller, Homburg - GER*

- Driveline Infections: Surgical remediation and alternatives  
*J. HANKE, HANNOVER - GER - K. HOMANN, HANNOVER - GER*
- Driveline management with cold plasma therapy  
*L. TRENDL, BAD ROTHENFELDE - GER*
- Cardiac Rehabilitation of LVAD patients  
*K. VANDERSMISSEN, LEUVEN - BEL*
- Staying Active on an LVAD  
*S. KORE, MANCHESTER - GBR*
- Palliative Care in LVAD patients  
*A.-M. OPPELAAR, UTRECHT - NLD*
- Alternative ways of carrying backpacks for VAD patients  
*F. FATTEICHER - GER*





09:00 CEST  
10:30

## EUMS-ISMCS-ESAO

**Chairs:** *B. Glasmacher, Hannover - GER - S. Jacob, Leuven - BEL - U. Steinseifer, Aachen - GER*

- HEMO compatibility the Big Picture : now and in the future *M. SLEPIAN, TUCSON - USA*
- Visualize hemolysis with ghost cells – a feasibility study for mechanical hemolysis detection *B. SCHUERMANN, AACHEN - GER*
- Key note lecture: on control strategies *H. SCHIMA, VIENNA - AUS*
- Hemodynamic limitations and challenges in LVAD technology *L. FRESIELLO, ENSCHEDE - NLD*
- 3D-planing of complex operations *S. SONNTAG, MUNICH - GER*
- Treatment of biofilm-infested implants - A tissue-saving approach *H. ROTERING, MÜNSTER - GER*
- RVAD in pulmonary hypertension: experimental and preliminary clinical experience *T. VERBELEN, LEUVEN - BEL*

AUDITORIUM

ALL DAY

## EUMS TRAININGS – VILLAGE

ROOM 1-2

ALL DAY

## VAD VILLAGE

ROOM 3

*Coffee break in the exhibitors' area*

11:00 CEST  
13:00

## RVAD AND BVAD

**Chairs:** *A. Loforte, Bologna - ITA, E. Potapov, Berlin - GER, J. Riebandt, Vienna - AUT,*

- Key note lecture: the use of isolated RVADs *E. RAME, PHILADELPHIA - USA*
- The failing RV in the setting of LVAD *O. SOLIMAN, GALWAY - IRL*
- Clinical experiences with (oxy) RVADs *S. MARIANI, MAASTRICHT - NLD*
- Combination of pulsatile and continuous flow devices in challenging cases - proof of concept *J. GARBADE, BREMEN - GER*
- Pulsatile RVAD: from short term to permanent pulsatile VAD *A. RUHPARWAR, ESSEN - GER*
- Universal Ventricular Assist device (UVAD) *J. KARIMOV, CLEVELAND - USA*
- An in vitro model to study suction events in ventricular assist device patients: validation with clinical data *M. ROCCHI, LEUVEN - BEL*
- Machine learning based blade design optimisation of the NeoVAD *L. NISSIM, BATH - GBR*
- A new algorithm for anticoagulation management with the HearMate *F. CONSOLO, MILANO - ITA*

➤ **Discussions**

AUDITORIUM

13:15 CEST  
14:15

## THE ROLE OF CYTOSORB-THERAPY IN HIGH-RISK CARDIAC SURGERY PATIENTS Lunch symposium with the support of Cytosorbents

**Chairs:** *F. Pappalardo, Alessandria - ITA, L.C. Napp, Hannover - GER*

AUDITORIUM

- Cytokine absorption in Aortic dissections *H. JAKOB, ESSEN - GER*
- Reduction of bleeding complications in ticagrelor and rivaroxaban loaded patients *S. GEIDEL, HAMBURG - GER*
- ECMO plus CytoSorb – it needs an individualized approach *A. MONTISCI, BRESCIA - ITA*

### ➤ *Discussions*

14:15 CEST  
15:15

## SHORT-TERM SUPPORT

**Chairs:** *A. El Banayosy, Oklahoma City - USA, J. Hanke, Hannover - GER, J. Karimov, Cleveland - USA*

AUDITORIUM

- Transition from ECLS to durable MCS: when and how? *A. LOFORTE, BOLOGNA - ITA*
- Assessing the right ventricle on VA-ECMO *D. DONKER, UTRECHT - NLD*
- De-escalate and ambulate: from ECMO to Impella *L.C. NAPP, HANNOVER - GER*
- Experience from short - to longterm tx in Middle East *A. SIMON, RIYAD - SAU*

15:15 CEST  
16:45

## RECOVERY

**Chairs:** *G. Laufer, Vienna - AUT, U. Tegtbur, Hannover - GER, Y. Barac, Haifa - ISR*

AUDITORIUM

- Update recovery: actual status, knowledge and future outlook *M. BONIOS, SALT LAKE CITY - USA*
- Weaning protocol *J. MULZER, BERLIN - GER*
- Cardiac Recovery in LVAD patients: Oeynhausen experience *R. SCHRAMM, BAD OEYNHAUSEN - GER*
- Berlin Health C-MIC microcurrent device *P. GÖTTEL, BERLIN - GER*
- Physiology of LV long axis shortening *J. BERG, LUND - SWE*
- Mechanical circulatory support for HFpEF *B. KUBAN, CLEVELAND - USA*
- Update on Barostimulation for the treatment of heart failure *M. KNAUT, DRESDEN - GER*
- Syntach: A Novel Minimally Invasive Cardiac Support System *K. SOLEM, LUND - SWE*

### ➤ *Discussions*

15:30 CEST  
17:00

## ECHO-COURSE ON VAD PATIENTS

ROOM "Echo"

*Coffee break in the exhibitors' area*

17:15 CEST  
19:30

## JOINT EUMS-ISMCS OPENING CEREMONY

**Chairs:** *El Banayosy, Oklahoma City - USA, P. Leprince, Paris - FRA, J. D Schmitto, Hannover - GER*

- EUMS-ISMCS Joint Meeting *P. LEPRINCE, PARIS - FRA  
A. LOFORTE, BOLOGNA - ITA*
- Welcome address *B. THÜMLER, MINISTER OF SCIENCE AND CULTURE, STATE OF LOWER SAXONY, HANNOVER - GER*
- Welcome address *T. HERMANN, MAYOR OF THE CITY OF HANNOVER - GER*
- Welcome address *M. MANNS, PRESIDENT OF HANNOVER MEDICAL SCHOOL - GER*
- Welcome address *A. HAVERICH, CHIEF OF CARDIAC SURGERY, HANNOVER - GER*
- ISMCS President key lecture *A. EL BANAYOSY, OKLAHOMA CITY - USA*
- EUMS President key lecture *J. D SCHMITTO, HANNOVER - GER*
- Hemolytic footprint of rotodynamic blood pumps *A. ESCHER, VIENNA - AUT*
- Artificial pulse: effect on pump washout and thrombogenicity of the HeartMate 3 *D. DE ZELICOURT, ZURICH - CHE*
- Development of Heart reimplacement therapy *J. LONG, OKLAHOMA CITY - USA*
- History of MCS *G. WIESELTHALER, VIENNA - AUT*

➤ **Discussions**

19:30 CEST  
22:00

## WELCOME COCKTAIL

EXHIBITION AREA

07:30 CEST  
08:30

**ABBOTT BREAKFAST SYMPOSIUM  
WITH SUPPORT OF ABBOTT**

AUDITORIUM

**Chairs:** *P. Leprince, Paris - FRA, J. D. Schmitto, Hannover - GER*

- The evolution of LVAD therapy and an exciting perspective on the future *R. KORMOS, AUSTIN - USA*
- HeartMate 3 and its growing body of evidence: establishing LVAD therapy as standard of care *J. GARBADE, BREMEN - GER*
- Ongoing clinical trials: a key to further increase adoption of LVADs *H. ROBBE, BRUSSELS - BEL*
- Recognizing advanced HF: joining forces to improve referral practice *F. GUSTAFSSON, COPENHAGEN - DNK*

08:30 CEST  
10:00

**VAD SESSION**

AUDITORIUM

**Chairs:** *G. Dogan, Hannover - GER, R. Kormos, Austin - USA, H. Reichenspurner, Hamburg - GER*

- Current Guidelines for VAD-therapy *P. MOHАСCI, GRAZ - AUT*
- Indication and patient selection *D. BERLINER, HANNOVER - GER*
- EUROMACS update *T. DE BY, WINDSOR - GBR*
- INTERMACS update *F. PAGANI, ANN ARBOR - USA*
- Early-VAD study update *C. KNOSALLA, BERLIN - GER*
- Is there a sex gap in long-term outcomes of comparable patients supported with left ventricular assist devices? *T. LI, HANNOVER - GER*
- 18F-FDG PET/CT analyses in patients with left ventricular assist devices – longitudinal vascular burden of inflammation and impact on cerebrovascular events *J. HUPE, HANNOVER - GER*

ALL DAY

**EUMS TRAININGS – VILLAGE**

ROOM 1-2

ALL DAY

**VAD VILLAGE**

ROOM 3

*Coffee break in the exhibitors' area*

10:30 CEST  
12:00

**PRO/CONS DEBATES - EUMS / ISMCS**

AUDITORIUM

**Chairs:** *E. Rame, Philadelphia - USA, K. Toda, Osaka - JPN*

- Debate 1
  - Early VAD in chronic heart failure – PRO *D. ZIMPFER, VIENNA - AUT*
  - Early VAD in chronic heart failure – CON *J. BAUERSACHS, HANNOVER - GER*
- **Discussions**
- Debate 2
  - Impella not ECMO *R. DOWLING, HERSHEY - USA*
  - ECMO not Impella? *N. KAPUR, BOSTON - USA*
- **Discussions**
- Debate 3
  - TAH *I. KNESEVICZ, LJUBLJANA - SVN*
  - HM6 or Centrifugal TAH *M. STRUEBER, MEMPHIS - USA*
- **Discussions**

10:30 CEST  
12:00

## RAPID-FIRE ABSTRACTS SESSION

**Chairs:** *L. Fresiello, Enschede - NLD, J. Karimov, Cleveland - USA, G. Tansley, Gold Coast - AUS*

- A device strategy-matched comparison analysis among different INTERMACS profiles: single center experience  
*R. CARAFFA, PADOVA - ITA*
- The effect of RVAD implantation site on the risk of right intracardiac thrombosis  
*K. Y. THUM, MELBOURNE - AUS*
- Cold Atmospheric Plasma (CAP) Treatment Options For Foreign Body Associated Infections In Patients With Left Ventricular Assist Devices  
*L. HILKER, KARLSBURG - GER*
- A Genetic Algorithm-based Optimization Framework For Control Parameters Of Ventricular Assist Devices  
*K. MAGKOUTAS, ZÜRICH - SWI*
- The R-wave amplitude to detect acute preload changes in patients with a ventricular assist device  
*S. A. DUAL, PALO ALTO - USA*
- Effect of pulsatile mechanical circulatory support on cardiac mechanics  
*M. BARROS ROTTERDAM - NLD*
- 30 day survival after temporary right ventricular assist devices implantation: a systematic review  
*O. SOLIMAN, GALWAY - IRE*
- A pulsatile mock circulatory loop for the evaluation of cardiac assist device haemocompatibility  
*T. SING, GOLD COAST - AUS*
- Minimally Invasive Aortic Valve Replacement with an Expandable Bioprosthesis after LVAD Implantation as Redo Surgery  
*A. F. POPOV, SIEGBURG - GER*
- Numerical hemocompatibility evaluation of a novel total artificial heart – The Shuttlepump  
*K. NARAYANASWAMY, VIENNA - AUT*
- Cardiac ventricular fibrosis in patients with advanced biventricular heart failure undergoing durable mechanical circulatory support  
*M. J. BONIOS, ATHENS - GRC*

ROOM 4

12:15 CEST  
13:15

## THE FUTURE OF ADVANCED HEART FAILURE - CARMAT'S VISION Lunch symposium with the support of Carmat

**Chairs:** *El Banayosy, Oklahoma City - USA, J. D Schmitto, Hannover - GER*

- CARMAT's approach to the treatment of advanced heart failure  
*S. PIAT, CARMAT*
- Timing and Indications for Aeson® implantation  
*G. DOGAN, HANNOVER - GER*
- Surgical technique for the implantation of Aeson®  
*A. VINCENTELLI, LILLE - FRA*
- Aeson® acquired hemocompatibility  
*C. MILANO, DURHAM - USA*

AUDITORIUM

13:15 CEST  
14:45

## INTERDISCIPLINARY SESSION EUMS/ISMCS AND EACTAIC Perioperative management of ventricular assist devices

**Chairs:** *M. Freundt, Hershey - USA, M. Jüttner, Hannover - GER, E. de Waal, Utrecht - NLD*

AUDITORIUM

- Welcome
- Preoperative optimization of the patients scheduled for LVAD implantation *C. STOPPE, WÜRZBURG - GER*
- Coagulation disorders prior to LVAD implantation *I. BIRSCHMANN, BAD OEYNHAUSEN - GER*
- Right heart Failure: risk stratification and strategies *V. VON DOSSOW, BAD OEYNHAUSEN - GER*
- Intraoperative general and hemodynamic management *N. MARCZIN, LONDON - GBR*
- Vasoplegia after LVAD implantation *E. DE WAAL, UTRECHT - NLD*
- Strategies for Early Postoperative Recovery *E. TSCHERNKO, VIENNA - AUT*
- Anesthesia for non-VAD surgeries in VAD patients *J. F. KARSTEN, HANNOVER - GER*

13:30 CEST  
14:30

## ISMCS GENERAL ASSEMBLY

Room 4

*Coffee break in the exhibitors' area*

15:15 CEST  
16:45

## ACUTE SESSION: SHORT TERM

**Chairs:** *P. Leprince, Paris - FRA, B. Kuban, Cleveland - USA*

AUDITORIUM

- Has short-term mechanical circulatory support an impact on post-heart transplant vasoplegia? *F. LOPEZ VALDIVIEZO, BARCELONA - ESP*
- What device for which patients? *A. EL BANAYOSY, OKLAHOMA CITY - USA*
- Left ventricle unloading improves the in-hospital survival of pediatric congenital heart disease patients supported with veno- arterial extracorporeal life support *P. MEANI, MAASTRICHT - NLD*
- Refractory CS: from last 3CT meeting *A. MEBAZZA, PARIS - FRA*
- Is surgical approach using an external ventricular assist device better than ECMO in refractory cardiogenic shock? *G. CALADO RIBEIRO, CAMPINAS - BRE*

16:45 CEST  
18:15

## VAD UPDATES

**Chairs:** *A. Popov, Siegburg - GER, G. Tansley, Gold Coast - AUS, D. Zimpfer, Vienna - AUT*

AUDITORIUM

- magAssist Update *C-H. Hsu, SUZHOU - CHN*
- The MI-VAD Pump: a novel approach to permanent cardiac assist *S. KUSHWAHA, MINNEAPOLIS - USA*
- Corwave *T. SNYDER, CLICHY - FRA*
- InvivoPower: Invivopower link: a novel transcatheter energy transfer technology for long-term mechanical circulatory support *B. BERN, MÖLN DAL - SWE*
- RAP-Pump *H. HORN - GER*
- Vadovation *J. LONG, OKLAHOMA CITY - USA*
- Adjucor: ReBEAT - Introducing a novel biventricular mechanical circulatory support device that avoids blood contact *U. STOCK, LONDON, GBR*
- CH Biomedical update *F. LIN, TORRANCE - USA*
- Evaheart updates *R. DOWLING, HERSHEY - USA*



08:30 CEST  
10:00

## MCS UNDER THE HOOD

**Chairs:** *L. Fresiello, Enschede - NLD, P. Ivak, Prague – CZE, D. Zimpfer, Vienna - AUT*

- Intelligent systems for long term cardiac monitoring *S. DUAL, STANFORD - USA*
- Proteins, Biomarkers and New Devices *C. BARTOLI, PHILADELPHIA - USA*
- Non-invasive monitoring of HeartMate 3 LVAD patient *S. SECER, HAMBURG - GER*
- Establishment of a national Heart Failure-Network *T. KEMPF, HANNOVER - GER*
- Microembolic signal monitoring in patients with HeartMate 3 and HeartWare *K. RAVENBERG, HANNOVER - GER*
- Markers of neutrophil extracellular traps (NETs) in patients with left ventricular assist device a prognostic factor for cerebrovascular events? *M. GABRIEL, HANNOVER - GER*

AUDITORIUM

ALL DAY

## EUMS TRAININGS – VILLAGE

ROOM 1-2

ALL DAY

## VAD VILLAGE

ROOM 3

*Coffee break in the exhibitors' area*

10:30 CEST  
12:30

## TAH UPDATE

**Chairs:** *G. Dogan, Hannover - GER, M. Morshuis, Bad Oeynhausen - GER, D. Wiedemann, Vienna - AUT*

- Carmat *P. LEPRINCE, PARIS - FRA*
- Real heart *I.-L. PERKINS, VÄSTERÅS, REAL HEART - SWE*
- Bivacor *D. TIMMS, HOUSTON, BIVACOR - USA*
- Cleveland Clinic Total Artificial Heart *J. KARIMOV, CLEVELAND - USA*
- Biological TAH: padua project *G. GEROSA, PADUA - ITA*
- TAH-HeartMate 6 *P. IVAK, PRAGUE - CZE*
- The ShuttlePump - a novel pulsatile valveless total artificial heart *T. BIEREWIRTZ, BERLIN - GER*
- Heart Hackathon - An international student team competition developing the next generation of artificial hearts *S. GREGORY, MELBOURNE - AUS*
- Experiences with the HeartMate 3 Modular Driveline Cable and Driveline Exchange *A. MERZAH, HANNOVER - GER*
- SynCardia *S. LANGFORD, SYNCARDIA*

AUDITORIUM

➤ **Discussions**

11:00 CEST  
12:00

ROOM "Echo"

## ECHO-COURSE ON VAD PATIENTS

12:45 CEST  
13:45

AUDITORIUM

## ANY NEWS ON THE VALUE OF PMCS SUPPORT STRATEGIES?

### Lunch symposium with the support of Abiomed

**Chairs:** J. D. Schmitto, Hannover - GER, D. Zimpfer, Vienna - AUT

- Escalation & de-escalation strategies with pMCS & corresponding value of SOP's  
L.C. NAPP, HANNOVER - GER
- Bridge to decision or bridge to device – How can pMCS be supportive?  
A. BERNHARDT, HAMBURG - GER
- What about PCCS – any options to support myocardial recovery? M. OEZKUR, MAINZ - GER
- How to support in Cardiac Surgery with pMCS – single center experience  
A. EL BANAYOSY, OKLAHOMA CITY - USA,

13:15 CEST  
14:45

AUDITORIUM

## MARKET DEVELOPMENT AND FUTURE OF MCS

**Chairs:** P. Leprince, Paris - FRA, A. Loforte, Bologna - ITA, J. D. Schmitto, Hannover - GER

- Market development J. LONG, OKLAHOMA CITY - USA
- Outcome variation through centers N. URIEL, NEW YORK - USA
- Robotic left ventricular assist device implantation Z. KHALPEY, TUCSON - USA
- Xenotransplantation – Where we are today? A. HAVERICH, HANNOVER - GER
- Wish list for future VAD-therapy J. D SCHMITTO, HANNOVER - GER

➤ **Discussions**

*Coffee break in the exhibitors' area*

15:15 CEST  
16:45

AUDITORIUM

## FUTURE TECHNOLOGIES

**Chairs:** L. Fresiello, Enschede - NLD, M. Granegger, Vienna - AUT, J. Hanke, Hannover - GER

- Impella 5.5 and BTR: update session C. NIX, AACHEN, ABIOMED - GE
- Procyrion J. HEURING, HOUSTON - USA
- NuPulse V. JEEVERNANDAM, CHICAGO - USA
- EMKA Medical R. GLOCKER, ASCHAFFENBURG - GER
- Corolla Y. FELD, TEL AVIV - ISR
- Future outlook: relevance of electrical microcurrent in recovery J. MÜLLER, BERLIN - GER
- Pulsecath O. MALCHIN, ARNHEM - NED
- HFpEF devices M. GRANEGGER, VIENNA - AUT

➤ **Discussions**





15:30 CEST  
17:00

## JOINT SESSION EUMS-KFO MEETING

AUDITORIUM

**Chairs:** *J. Bauersachs, Hannover - GER, S. Cebotari, Hannover - GER*

- Molecular imaging of the failing Heart and device-related complications

*J. DIEKMANN, HANNOVER - GER*

- Ex-vivo cardiac surgery using the Organ Care System

*A. MARTENS, HANNOVER - GER*

- Protein based therapie for myocardial infarction

*K.C. WOLLERT, HANNOVER - GER*

- Iron deficiency aggravates heart failure

*T. KEMPF, HANNOVER - GER*

- Overview of existing large animal models in Hannover

*T. MEYER, MEDIMPLANT*

16:45 CEST  
17:45

## EUMS-ISMCS CLOSING CEREMONY

AUDITORIUM

**Chairs:** *A. El Banayosy, Oklahoma City - USA, A. Loforte, Bologna - ITA, J. D Schmitto, Hannover - GER*

- Awards

*P. LEPRINCE, PARIS - FRA*

- Presentation of EUMS 2023 (Paris, France)

*A. EL BANAYOSY, OKLAHOMA CITY - USA*

- Presentation of ISMCS 2023 (USA)

- Closing words of the Joint-EUMS-ISMCS-Conference-2022

*J. D SCHMITTO, HANNOVER - GER*

18:00 CEST  
19:00

## ISMCS STRATEGY MEETING

BOARDROOM

10:30 CEST  
12:30

Seminarraum 4

## LEBEN MIT EINEM HERZUNTERSTÜTZUNGSSYSTEM

**Chairs:** Günes Dogan Oberarzt, Facharzt für Herzchirurgie  
Alexandra Schöde VAD-Koordinatorin Medizinische Hochschule Hannover

- In Begrüßung durch JAN D. SCHMITTO, PRÄSIDENT EUMS SOCIETY
- Die Entwicklung des VAD-Programmes in Hannover: Innovationen und Pionierarbeiten JAN D. SCHMITTO
- Mein Leben mit dem Herzunterstützungssystem "Heartware HVAD" RENE FIEBIG
- 10 Jahre nach minimal-invasiver LVAD-Implantation ("HVAD") in Hannover JÖRG BÖCKELMANN
- "The one and only" – Erfahrungen eines "MVAD"- Patienten HERMANN LAUKART
- "First in man"! Erinnerungen und Erlebnisse in ca. 8 Jahren mit "HM 3" KURT-JOSEF MÜLLER
- Ambulante Nachsorge nach VAD-Implantation HEIDI NIEHAUS MEDIZINISCHE HOCHSCHULE HANNOVER

12:30 CEST  
13:30

Seminarraum 4

## RUND UM DAS HERZUNTERSTÜTZUNGSSYSTEM

**Chairs:** Jasmin S. Hanke, Medizinische Hochschule Hannover  
Katharina Homann, VAD - Koordination Medizinische Hochschule Hannover

- HM 3 Aufbau und Funktion HOLGER KASTNING FIRMA ABBOTT
- A-Arbeits- und Erwerbsfähigkeit, Schwerbehinderten-, Transportausweis nach Implantation, Umgang mit den Krankenkassen ANJA VAJEN KLINCK FALLINGBOSTEL
- Fahrdienst Südheide- alles rund um die Transporte von VAD- Patienten STEPHAN STREUBEL KT SÜDHEIDE
- Alternative Lösungen und innovative Möglichkeiten zum Tragen von VAD-Systemen FANNY FATTEICHER FIRMA MEDITX
- Professionelle Rehabilitation nach VAD-Implantation SUSANNE BRUNNER CHEFÄRZTIN KARDIOLOGIE KLINIK FALLINGBOSTEL

15:00 CEST  
16:00

Seminarraum 4

## VAD ALS BRÜCKE ZUR TRANSPLANTATION

**Chairs:** Ezin Deniz MD Medizinische Hochschule Hannover  
Silke Feueriegel VAD-Koordination Medizinische Hochschule Hannover

- 10 Jahre Support mit VAD und anschließender Herztransplantation HANS VEEGER
- Reisen und Leben mit einem VAD und nach Herztransplantation ALGIRD DIKSCHAT
- "Pulslos-leben e.V." - Verein für VAD-Patienten und Angehörige JÖRG BÖCKELMANN
- Verabschiedung durch GÜNES DOGAN MEDIZINISCHE HOCHSCHULE HANNOVER



09:30 CEST  
11:45

Seminarraum 4

## PERFUSION SESSION 1

**Chairs:** Günes Dogan Oberarzt, Facharzt für Herzchirurgie  
Sebastian Tiedge, Medizinische Hochschule Hannover

- Kommunikation in interprofessionellen Teams - Wie können wir Fehler vermeiden?  
*C. MACKE, HANNOVER - GER*
- Heater Cooler Unit - Endlich eine saubere Lösung  
*M. BONGERT, DORTMUND - GER*
- First clinical experiences with the CARL - System  
*C. BENK, FREIBURG - GER*
- Lebensrettende extrakorporale Lebenserhaltung und linksventrikuläre Entlastung: ein Widerspruch in sich?  
*J. GEHRON, GIESSEN - GER*
- Mobilität und Bewegungsfreiheit für Patienten mit angeborenem Herz  
*F. MÜNCH, ERLANGEN - GER*
- Fallvorstellung und diskussion  
*A. MERZAH, HANNOVER - GER*

13:30 CEST  
15:30

Seminarraum 4

## PERFUSION SESSION 2

**Chairs:** Jasmin S. Hanke, Medizinische Hochschule Hannover  
Frank Münch, Universität Erlangen

- Qualifikation und Verantwortlichkeiten eines klinischen Perfusionisten - heute und in Zukunft  
*A. BAUER, COSWIG - GER*
- In Silico Analyse der Einflüsse auf die innere und äußere Strömung einer ECMO-Kanüle  
*M. BONGERT, DORTMUND - GER*
- Korreliert die computergestützte ECMO-Simulation mit der klinischen Realität?  
*D. BUCHWALD, BOCHUM - GER*
- vv is not va! Pathophysiological differences between ECMO types  
*A. BAUER, COSWIG - GER*
- Herausforderungen und Fallstricke bei ECLS/ECMO-Transporten  
*S. TIEDGE, HANNOVER - GER*
- Fallvorstellung: Herausforderung in ECMO Transport  
*A. MERZAH, HANNOVER - GER*





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## ■ GENERAL INFORMATION

### CONGRESS VENUE

CONFERENCE CENTER HERRENHAUSEN:

Veranstaltungen und Betriebs GmbH,

Ph.: +49 511 763744-0

### LOGISTICAL ORGANIZATION AND REGISTRATION

OVERCOME: 13-15, rue des Sablons - 75116 PARIS, France

Ph: +33(0)1 40 88 97 97 - Fax: +33 (0)1 43 59 76 07 - E-mail: [eums@overcome.fr](mailto:eums@overcome.fr)

### REGISTRATION

|                               | On site registration |
|-------------------------------|----------------------|
| Physician/Engineer            | 550 €                |
| Nurse/Perfusionist/Resident   | 250 €                |
| Virtual fee – all conferences | 300 €                |
| Daily virtual fee             | 100 €                |
| Congress Dinner               | 100 €                |

### ACCOMMODATION

A limited number of rooms at preferential rates have been booked for the EUMS delegates.

For individual reservations, you can book directly online through your registration profile

For company and or third party reservations, please send your request to:

OVERCOME – HOUSING DEPARTMENT

Ph : +33(0)1 40 88 97 97

e-mail: [eumshousing@overcome.fr](mailto:eumshousing@overcome.fr)

### EXHIBITION

From Wednesday, May 25, a large exhibition will take place in the Ballroom (upper floor) hosting industry partners.

Startups will be waiting for you close to the auditorium (lower floor).

### TRANSPORTATION



16th European Mechanical Circulatory support Summit” 38342AF valid from 17/05/2022 to 03/06/2022

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