



EUMS

MCS - CRM

Paris - Vienna - Hannover



ISMCS

16th

**EUROPEAN MECHANICAL
CIRCULATORY SUPPORT SUMMIT**

**INTERNATIONAL SOCIETY FOR
MECHANICAL CIRCULATORY SUPPORT**

Multidisciplinary Approach
Heart Failure - Device Therapies

SAVE THE DATE

DECEMBER

1 - 4

2021

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HANNOVER GERMANY

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16th EUROPEAN MECHANICAL CIRCULATORY SUPPORT SUMMIT

INTERNATIONAL SOCIETY FOR MECHANICAL CIRCULATORY SUPPORT

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E. Rausch, Hannover - GER
A. Schöde, Hannover - GER
J. D. Schmitto, Hannover - GER

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Dear Colleagues and friends,

We are pleased to announce you this year EUMS and ISMCS societies will hold a joint scientific conference with the common goal to discuss and share knowledge on mechanical circulatory support.

The conference will take place in Hannover (Germany) from December 1 to 4, 2021.

We look forward to welcoming you in Hannover.

Yours faithfully,

The scientific committee

WEDNESDAY, DECEMBER 1, 2021

16.00 – 16.30 CET

JOINT EUMS-ISMCS OPENING CEREMONY

Chairs: A. El Banayosy, Oklahoma City – USA, A. Loforte, Bologna – ITA, P. Leprince, Paris – FRA, J. Schmitto, Hannover – GER

- EUMS-ISMCS Joint Meeting *P. Leprince, Paris – FRA, A. Loforte, Bologna - ITA
M. Slepian, Tucson - USA*
- Discussions on directions EUMS-ISMCS group
- ISMCS President key lecture *A. El Banayosy, Oklahoma City - USA*
- EUMS President key lecture *J. Schmitto, Hannover - GER*
- Welcome address President of Hannover Medical School *M. Manns, Hannover - GER*
- Welcome address Chief of Cardiac Surgery *A. Haverich, Hannover - GER*

16.30 – 18.30 CET

HELMUT REUL YOUNG INVESTIGATORS SESSION AND GIANT OF MCS

Chairs: P. Leprince, Paris – FRA, U. Steinseifer, Aachen – GER, V. Tchantchaleishvili, Rochester – FRA

- The Development from Heart valves to TAH *A. Carpentier, Paris - FRA*
- History of MCS in Europe *G. Wiesenthaler, Vienna - AUT*

18.30 – 21.30 CET

WELCOME COCKTAIL IN THE EXHIBITION AREA

08:30 – 10:00 CET
MCS UNDER THE HOOD

Chairs: L Fresiello, Leuven – BEL, I. Netuka, Prague – CZE, D. Zimpfer, Vienna – AUT

- Hemocompatibility in MCS - The Platelet Perspective 2021 and Beyond
- Proteins, Biomarkers and New Devices
- Non-invasive monitoring of HeartMate 3 LVAD patients
- HFpEF devices
- Discussion

*M. Slepian, Tucson - USA
C. Bartoli, Philadelphia - USA
T. Schlöglhofer, Vienna - AUT
M. Granegger, Vienna - AUT*

10:30 - 12:30 CET
PRO/CONS DEBATES - EUMS - ISMCS

Chairs: A. Haverich, Hannover – GER, F. Moscato, Vienna – AUT, G Wieselthaler, San Francisco - FRA

- Debate 1
 - Early VAD in chronic heart failure – PRO
 - Early VAD in chronic heart failure – CON
- Debate 2
 - Impella and/or ECMO?
 - Impella and/or ECMO?
- Debate 3
 - TAH
 - HM6 or Centrifugal TAH

*D. Horstmanshof, Oklahoma City - USA
J. Bauersachs, Hannover - GER*

*G. Lebreton, Paris - FRA
N. Kapur, Boston - USA*

*I. Knezevic, Ljubljana - SVN
M. Strueber, Memphis - USA*

13:30 - 15:00 CET
RECOVERY

Chairs: E. Birks, Louisville – USA, G. Laufer, Vienna – AUT, M. Morshuis, Bad Oeynhausen - GER

- Update recovery: actual status, knowledge and future outlook
- Weaning protocol
- Sport medicine/ Medication to support weaning
- Biomechanics of recovery
- Future outlook: relevance of bio-markers in recovery
- Discussion

*S. Drakos, Salt Lake City - USA
J. Mulzer, Berlin - GER
U. Tegthuber, Hannover - GER
D. Burkhoff, New York - USA
F. Al Rashid, Essen - GER*

15:30 - 17:00 CET
SHORT-TERM SUPPORT

Chairs: A. El Banayosy, Oklahoma City – USA, J. Karimov, Cleveland - USA, S. Mariani, Hannover – GER

- Transition from ECLS to durable MCS: when and how?
- Assessing the right ventricle on VA-ECMO
- De-escalate and ambulate: from ECMO to Impella
- Switch off the electricity: toward a pneumatic ECMO
- Emergency and ambulatory ECMO
- Discussion

*A. Loforte, Bologna - ITA
D. Donker, Utrecht - NLD
C. Napp, Hannover - GER
O. Marseille, Aachen - GER
C. Schmid, Regensburg - GER*

17:00 - 18:30 CET

FUTURE TECHNOLOGIES I

Chairs: J. Bauersachs, Hannover – GER, G. Lebreton, Paris – FRA, U. Steinseifer, Aachen – GER

- Impella 5.5 and BTR: update session
- Intelligent systems for long term cardiac monitoring
- Cardiobridge
- Procyron
- NuPulse
- SyntachK.
- EMKA Medical
- Corolla
- Berlin Health
- Pulsecath

T. Siess, Aachen, Abiomed - GER
S. Dual, Stanford - USA
T. Walker, Hechingen - GER
J. Heuring, Houston - USA
V. Jeevernandam, Chicago - USA
Solem, Lund - SWE
R. Glocker, Aschaffenburg - GER
Y. Feld, Tel Aviv - ISR
J. Muller, Berlin - GER
O. Malchin, Arnhem - NED

GALA DINNER

FRIDAY, DECEMBER 3, 2021

09:00 - 10:30 CET

ACUTE SESSION: SHORT TERM

Chairs: P. Leprince, Paris – FRA, R. Lorusso, Maastricht – NLD, A. Loforte, Bologna – ITA, B. Kuban, Cleveland – USA

- Engineering challenges
- What device for which patients?
- Refractory CS: from last 3CT meeting
- Covid and short term support: what did we learn?
- Other etiologies than AMI and post cardiectomy
- Discussion

C. Nix, Aachen, Abiomed - GER
A. El Banayosy, Oklahoma City - USA
A. Mebazza, Paris - FRA
A. Combes, Paris - FRA
G. Lebreton, Paris - FRA

10:30 - 12:30 CET

RVAD and BVAD

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

- Key note lecture: the use of isolated RVADs
- The failing RV in the setting of LVAD
- Clinical experiences with (oxy) RVADs
- Rotary pump for RVAD
- Pulsatile RVAD trial sponsor
- Universal ventricular assist device

E. Rame, Philadelphia - USA
O. Soliman, Galway - IRL
R. Lorusso, Maastricht - NLD
J. Lavee, Tel Aviv - ISR
B. Schmack, Essen - GER
J. Karimov, Cleveland - USA

10:30 - 12:30 CET

TAH UPDATE

Chairs: G. Dogan, Hannover - GER, M. Slepian - USA, D. Wiedemann, Vienna - AUS

- Carmat
- Syncardia
- Real heart
- Bivacor
- Cleveland heart
- Biological TAH: padua project

P. Leprince, Paris - FRA
G. Tenderich, Hawaii - USA
I.-L. Perkins, Västerås, Real Heart - SWE
D. Timms, Sydney, Bivacor - AUS
J. Karimov, Cleveland - USA
G. Gerosa, Padua - ITA

15:30 - 17:00 CET

MARKET DEVELOPMENT AND FUTURE OF MCS

Chairs: P. Leprince, Paris – FRA, J. Long, Oklahoma City – USA, J. Schmitto, Hannover – GER, U. Steinseifer, Aachen – GER, N. Uriel, New York – USA

- Impact of device withdrawal - the bad, the ugly and the good ?
- Market development
- Outcome variation through centers
- Discussion

*M. Slepian, Tucson - USA
J. Long, Oklahoma City - USA
N. Uriel, New York - USA*

17:00 - 19:00 CET

VAD UPDATES

SATURDAY, DECEMBER 4, 2021

09:00 - 10:30 CET

EUMS-ISMCS-ESAO

Chairs: U. Steinseifer, Aachen – GER, Jacobs - BEL, M. Slepian, Tucson – USA

- Is antiplatelet necessary for HMII patients?
 - Con
 - Pro
- HEMO compatibility the Big Picture : now and in the future
- Discussion
- Key note lecture: on control strategies
- Hemodynamic limitations and challenges in LVAD technology
- ESAO communication
- ESAO communication

*I. Netuka, Prague - CZE
C. Bartoli, Philadelphia - USA
M. Slepian, Tucson - USA*

*H. Schima, Vienna - AUS
L. Fresiello, Leuven - BEL*

11:00 – 12:30 CET

WHAT IS THE NEXT STEP?

Chairs: E. Rame, Philadelphia – USA, M. Slepian, Tucson – USA, G. Laufer, Vienna – AUT

- Keynote lecture: what we expect from the future?
- Xenotransplantation: Where we are today?
- Total bioartificial heart: science or fiction?
- Robotics
- How far can we go with miniaturization?
- Mechanical circulatory support for HFpEF

*J. Schmitto, Hannover - GER
B. Reichart, Hannover - GER
G. Luraghi, Milan - ITA
Z. Khalpey Tucson - USA
U. Steinseifer, Aachen - GER
B. Kuban, Cleveland - USA*

12:30 – 13:30 CET

EUMS-ISMCS CLOSING CEREMONY

Chairs: A. El Banayosy, Oklahoma City – USA, A. Loforte, Bologna – ITA, J. Schmitto, Hannover – GER, M. Slepian, Tucson – USA

- Awards
- Presentation of EUMS 2022 (Paris, France)
- Presentation of ISMCS 2022 (USA)
- Closing ceremony

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

WEDNESDAY, DECEMBER 1, 2021

13:00 – 14:30 CET

VAD Coordinator meeting

Role of the VAD Coordinator and management

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

- The Role of the VAD Coordinator: US Perspective
- The Role of the VAD Coordinator: EU Perspective
- Anticoagulation Practices in LVAD Patients
- Special patients - special databases

E. Davis, Utah - USA
S. Boschi, Bologna - ITA
F. Müller, Homburg - GER
S. Fischer, Hannover - GER

14:45 – 15:45 CET

VAD Coordinator meeting

Technical supervision in times of COVID-19

Chairs: E. Davis, Utah – USA, T. Schlöglhofer, Vienna - AUT

- Enhanced technical patient management: logfiles, acoustic analysis and more

F. Kaufmann, Berlin - GER

- Telemonitoring VAD patients COVID-19

V. Lauenroth, Bad Oeynhausen - GER

- VAD STAT App – Algorithm based assessment tool for low frequency MCS providers

T. Robbins, Philadelphia - USA

THURSDAY, DECEMBER 2, 2021

10:00 – 12:30 CET

VAD Coordinator meeting

Driveline Infection /Patient Management

Chairs: H. Niehaus, Hannover – GER, F. Müller, Homburg - GER

- Driveline Infections: Surgical remediation and alternatives
- Driveline management with cold plasma therapy
- Non-durable MCS strategies – impact of the new US allocation
- Cardiac Rehabilitation of LVAD patients
- Staying Active on an LVAD
- Palliative Care in LVAD patients
- Alternative ways of carrying backpacks for VAD patients

A. Schöde - K.Homann, Hannover - GER
R. Bach, Bad Rothenfelde - GER
J. Hajj, Charleston - USA
K. Vandersmissen, Leuven - BEL
S. Kore, Manchester - GBR
A.-M. Oppelaar, Utrecht - NLD
F. Fatteicher -GER

13:30 – 16:00 CET

Rapid-fire abstracts session

13:30 – 16:00 CET

VAD-Patient-Meeting

- Welcome and overview
- My >5 years with the MVAD
- >7 years with Heartmate 3 - report of the worldwide first HM3-patient
- Almost 10 years support with HVAD
- Outpatient management
- Staying Active on an LVAD
- Cardiac Rehabilitation of LVAD patients
- Alternative ways of carrying backpacks for VAD patients

J. Schmitto, Hannover - GER
R. Laukart, Hannover - GER
K. Müller, Hannover - GER
J. Böckelmann, Hannover - GER
H. Niehaus, Hannover - GER
U. Tegtbur, Hannover - GER
S. Brunner, Bad Fallingb. - GER
F. Fatteicher - GER

09:00 – 10:30 CET
Echo-course on VAD-patients

09:00 – 10:30 CET
Joint session EUMS-KFO311
Perfusionist meeting

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

- RNA-based therapies for heart failure *T. Thum, Hannover - GER*
- Molecular imaging of the failing heart and device-related complications *F. M. Bengel, Hannover - GER*
- Cell-therapy for pulmonary arterial hypertension and heart failure alternativ *U. Martin, Hannover - GER*
- Ex-vivo cardiac surgery using the OCS-system *A. Martens, Hannover - GER*
- Protein based therapies 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, Hannover - GER*

11:00 - 12:30 CET
Joint session EUMS/ISMCS and EACTAIC
Interdisciplinary session LVAD implantation
Perioperative management of ventricular assist devices

Chairs: N. Marczin, GBR, R. Schramm, Bad Oeynhausen - GER

- Welcome address *J. Schmitto, Hannover - GER*
- Preoperative optimization of the patients scheduled for LVAD implantation *C. Stoppe, Würzburg - GER*
- Surgical implantation techniques and recommendations *J. Hanke, Hannover - GER*
- Coagulation disorders prior to LVAD implantation *H. Berg Ravn, Odense - DEN*
- Intraoperative hemodynamic management *N. Marczin, Harefield - GBR*
- Vasoplegia after LVAD implantation *E. de Waal, Utrecht - NLD*
- Strategies for early postoperative recovery *E. Tschernko, Vienna - AUT*

15:30 – 17:00 CET
Rapid-fire abstracts session

