### SUNDAY, 27 SEPTEMBER, 2015

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<tr>
<td>07:45-18:00</td>
<td>REGISTRATION AND INFORMATION DESK</td>
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<td>08:45-12:00</td>
<td>YOUNG INVESTIGATOR’S PRE-SYMPHOSUM</td>
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<td>12:00-12:45</td>
<td>OPENING CEREMONY</td>
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<td>Moderators: Bojan Biočina, Ulrich Steinseifer</td>
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<td>12:45-13:15</td>
<td>KEYNOTE LECTURE I</td>
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<td>XENOTRANSPLANTATION: TO PUMP OR TO PIG (recent developments for heart</td>
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<td>transplantation)</td>
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<td>David K. Cooper, USA</td>
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<td>13:15-14:15</td>
<td>HELMUT REUL SESSION</td>
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<td>Moderators: Bojan Biočina, Ulrich Steinseifer</td>
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<td>14:15-14:45</td>
<td>BREAK</td>
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<td>14:45-16:15</td>
<td>SESSION I ENGINEERING / NEW DEVICES</td>
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<td>Moderators: Geoffrey Tansley, Georg Wieselthaler</td>
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### Invited Lecture:

- **NEW CHINESE PUMP**
  - Chen Chen, China

- **PADUA TOTAL ARTIFICIAL HEART**
  - Gino Gerosa, Italy
Selected Abstracts:

MINIVAD: A PRE-CLINICAL UPDATE OF CALON CARDIO’S NOVEL VENTRICULAR ASSIST DEVICE
Graham Foster

A TWO-STAGE ROTARY BLOOD PUMP DESIGNED TO REDUCE BLOOD TRAUMA
Bente Thamsen

HEMOCOMPATIBILITY EVALUATION OF THE NEW MT-MAG CENTRIFUGAL PUMP
ACCORDING TO ISO 10993-4
Hans Peter Wendel

AORTIX- DESIGNING A MINIMALLY INVASIVE AXIAL ROTARY BLOOD PUMP USING
COMPUTATIONAL FLUID DYNAMICS FOR OPTIMAL FLOW AND LOW HEMOLYTIC
POTENTIAL
Sascha Groß-RHardt

PRECLINICAL EVALUATION OF THE HYDRODYNAMICALLY LEVITATED AXIAL FLOW BLOOD
PUMP
Tomonori Tsukiyama

HYDRAULIC FORCE BALANCE FOR IMPROVEMENT OF A LEVITATION PERFORMANCE OF
AN IMPELLER IN A HYDRODYNAMICALLY LEVITATED CENTRIFUGAL BLOOD PUMP
Ryo Kosaka

IN VITRO INVESTIGATION ON THE REGIONAL AUTOREGULATION RESPONSES TO A
ROTARY PUMP IN SERIES CONFIGURATION
Amin Rezaienia

16:15-16:30 RAPID FIRE SESSION
Moderator: Christoph Nix

16:30-16:45 BREAK

16:45 - 17:30 SATELLITE SYMPOSIUM: HeartWare:
AN UPDATE ON THE INTERIOR DESIGN AND TECHNOLOGY OF NEXT GENERATION
DEVICE AND COMPONENTS

16:45-16:50 WELCOME
S. Mueller, Country Manager, EEME & South America

16:50-17:05 PUMP PERIPHERALS
M. Ashenuga, Senior Global Product Manager

17:05-17:20 IMPELLER TECHNOLOGY
Ertan Taskin, Principal CFD Scientist

17:20-17:30 QUESTION & ANSWERS
17:30-18:15  PANEL DISCUSSION: NEEDS AND SOLUTIONS  
厅Lavandula

LEARNING FROM THE PROBLEMS, SETTING OUT SOLUTIONS: CRITICAL NEEDS, CLINICAL AND TECHNOLOGICAL SOLUTIONS

Aly El-Banayosy (USA)  
James Long (USA)  
Heinrich Schima (Austria)  
Mark Slaughter (USA)  
Ulrich Steinseifer (Austria)  
Richard Wampler (USA)

TOPICS: hemocompatibility, adverse events, transcutaneous energy transfer, frailty, physiological control, implantation techniques, diagnostic and maintaining...

18:15-19:15  DART COMPETITION  
厅Laurea

19:15-21:00  WELCOME RECEPTION  
Abakus Bar & Terace

MONDAY, 28 SEPTEMBER, 2015

07:30-18:00  REGISTRATION AND INFORMATION DESK

08:00-09:45  SESSION II  ENGINEERING PHYSIOLOGIC CONTROL  
厅Lavandula

Moderators: Francesco Moscato, Benjamin C. Sun

Invited lecture:

WHO WOULD BENEFIT FROM PHYSIOLOGICALLY CONTROLLED PUMPS?  
Heinrich Schima, Austria

THE RETURN OF THE PULSE CENTRIFUGAL PUMPS AND PULSATILITY  
Walter Dembitsky, USA

OFF PUMP LVAD IMPLANTATION TECHNIQUE  
Igor Gregoric, USA

CONTROL STRATEGIES AND CHALLENGES WITH SPEED MODULATION OF ROTARY BLOOD PUMPS  
Matthias Kleinheyer

PRESENTATION OF THE ISRBP SCHOLARSHIP 2014  
Masahiro Osa

PULSATILE FLOW REGULATION OF EXTRACORPOREAL MAGNETICALLY LEVITATED ROTARY BLOOD PUMP FOR ACUTE HEART FAILURE  
Diyar Saeed

REDUCING THE PREVALENCE OF DE NOVO AORTIC VALVE INSUFFICIENCY IN PATIENTS SUPPORTED WITH HEARTWARE HVAD PUMP THROUGH THE ACTIVATION OF INTERMITTENT LOW SPEED SOFTWARE (ILS)  
Jo Pauls

IN-VITRO COMPARISON OF PHYSIOLOGICAL CONTROL SYSTEMS FOR ROTARY LEFT VENTRICULAR ASSIST DEVICES  
Masahiro Osa
NUMERICAL EVALUATION OF A STARLING-LIKE PHYSIOLOGICAL CONTROLLER FOR LEFT-RBPS BASED ON ESTIMATED STROKE WORK
Eric Wu

HEMODYNAMIC ANALYSIS OF LEFT AND RIGHT SUBCLAVIAN ARTERY GRAFTING OF THE HVAD USING CLOSED-LOOP MULTISCALE CFD SIMULATIONS
Michael Neidlin

09:45-10:15 BREAK

09:45-10:00 SATELLIET SYMPOSIUM: EVAHEART
Hall Lavandula
LVAD-DRIVEN ACQUIRED VON Willebrand SYNDROME AND ITS CLINICAL IMPLICATION
Tadashi Motomura, USA

10:15-10:45 KEYNOTE LECTURE II
Hall Lavandula
MYOCARDIAL RECOVERY ON VAD
O. Howard Frazier, USA

10:45-12:15 SESSION III: BLEEDING AND THROMBOSIS
Hall Lavandula

Invited lecture:
POC GUIDED MANAGEMENT OF HEMOSTASIS IN MECHANICAL CIRCULATORY SUPPORT
Klaus Goerlinger, Germany

ANTICOAGULATION PROTOCOL IN VENTRICULAR ASSIST DEVICE
Georg Wieselthaler, USA

Selected Abstract:
ACQUIRED VON WILLEBRAND SYNDROME
Mate Petričević
MULTI-SPECIES IN VITRO ASSAYS FOR SHEAR-DEPENDENT TOTAL BLOOD DAMAGE TESTING OF VENTRICULAR ASSIST DEVICES
Chris Hoi Houn Chan
IN VITRO STUDY FOR BLOOD COAGULATION REACTION VELOCITY UNDER SHEARFIELD USING A RHEOMETER
Osamu Maruyama
CENTRIFUGAL-FLOW LVADS CAUSE LESS VON WILLEBRAND FACTOR DEGRADATION THAN AXIAL-FLOW LVADS
Carlo Bartoli
MODULATION OF PLATELET STIFFNESS AS A MEANS OF REDUCING THROMBOTIC COMPLICATIONS IN MECHANICAL CIRCULATORY SUPPORT
Marvin Slepian
INVESTIGATING THE INVERSE RELATIONSHIP BETWEEN SHEAR STRESS AND EXPOSURE TIME AND THEIR RELATIVE EFFECTS ON VWF DEGRADATION UNDER VAD-RELATED HYPER SHEAR CONDITIONS
Shuo Yang
ALTERED PLATELET ACTIVITY STATE IN A HEARTMATE II LVAD PATIENT: A CASE REPORT
Phat Tran

12:15-13:15 LUNCH BREAK
12:15c13:15  SATELLITE SYMPOSIUM: Thoratec
THE HEARTMATE 3: FROM DESIGN TO TRIAL

Design and function of the HeartMate 3
Walter Dembitsky, USA

Results of the HeartMate 3 CE mark trial
Jan Schmitto, Germany

Early Clinical experience with HeartMate 3
Yuri Pya, Kazakhstan

13:15c14:45  SESSION IV ENGINEERING MODELLING AND DIAGNOSTICS
Hall Lavandula

Moderators: Marvin Slepian, Minoru Ono

Invited lecture:
USING COMPUTATIONAL MODELING TO ANALYZE AND OPTIMIZE MECHANICAL CIRCULATORY SUPPORT
Tim Kaufmann, Germany

THE RELEVANCE OF LOADING CONDITIONS ON OPTIMIZATION OF PUMP FLOW IN CONTINUPUS FLOW LEFT VENTRICULAR ASSIST DEVICES
Maja Čikes, Croatia

Selected Abstracts:
ROTARY BLOOD PUMP VIBRATION AND HEMOCOMpatibility
J. Ryan Stanfield

NOVEL CANNULA FOR CARDIOPULMONARY BYPASS TO REDUCE THE RISK FOR STROKE IN HIGH RISK PATIENTS
Ralf Borchardt

COMPUTATIONAL HEMOLYSIS ESTIMATION BASED ON VISCOELASTIC DEFORMATION OF RED BLOOD CELLS
Lutz Pauli

A MATHEMATICAL METHOD OF CFD HAEMOLYSIS MODEL COEFFICIENTS OPTIMISATION TO ENABLE MORE ACCURATE PREDICTION OF ABSOLUTE HAEMOLYSIS PERFORMANCE IN VADS
Alessandra Molteni

THE REAL-TIME OPTICAL MONITORING OF THROMBUS FORMATION INSIDE THE BLOOD PUMP DURING EXTRACORPOREAL CIRCULATION USING HYPERSPECTRAL IMAGING IN ACUTE ANIMAL EXPERIMENTS
Tatsuki Fujiwara

NUMERICAL SIMULATION OF LVAD HEMODYNAMICS IN LESS SICK PATIENTS
Francesco Moscato

14:45-15:15  BREAK
14:45-15:15  SATELLITE SYMPOSIUM: MAQUET  
ECMO CENTER SETUP: CONCEPTS AND PHILOSOPHIES ACCORDING TO AVAILABLE TECHNOLOGY—WHAT DOES THE FUTURE HOLD?  
Tilmann Schwab, Switzerland  
Bojan Stević, Serbia  

15:15-16:45  SESSION V  
CLINICAL ECLS AND ACUTE SUPPORT  
Moderators:  
Bojan Biočina, Thorsten Siess  

Invited lecture:  
CARDIOGENIC SHOCK DIFFERENT TREATMENT FOR DIFFERENT STAGES  
Aly El-Banayosy, USA  

PUMP MINIATURIZATION: THE BRIGHT AND DARK SIDES FROM AN ENGINEERING VIEWPOINT  
Ulrich Steinseifer, Germany  

Selected Abstracts:  
BRIDGE TO BRIDGE BY EXTRACORPOREAL LIFE SUPPORT IN INTERMACS LEVEL 1 PATIENTS  
Simon Schopka  
IMPELLA 5.0 AS A BAIL-OUT PROCEDURE AFTER EXTRACORPOREAL SUPPORT  
David Schibilsky  
SMALL BODY SIZE IS NOT A PREDICTOR OF WORSE SURVIVAL OR HIGH COMPLICATION RATE OF CURRENT IMPLANTABLE VENTRICULAR ASSIST DEVICES  
Minoru Ono  
DURABLE LVAD THERAPY IN PATIENTS WITH COMPLEX ADULT CONGENITAL HEART DISEASE – A PROMISING ALTERNATIVE TO LONG TERM WAITING FOR A HEART TRANSPLANT  
Neil Wrightson  
VENTRICULAR ASSIST DEVICE INFECTIONS: A TROPICAL ASIAN CENTRE EXPERIENCE  
Lili Joycelyn Tan  

16:45-18:15  REGIONAL FORUM + PANEL DISCUSSION  
Moderators:  
Davor Miličić, Cumaraswamy Sivathasan  
Bojan Biočina, Croatia  
Ivan Knežević, Slovenija  
Suha Kucukaksu, Turkey  
Emilija Nestorović, Serbia  
Aleksandar Nikolić, Montenegro  
Yuri Pya, Kazakhstan  
Zoltán Szabolcs, Hungary  

20:00-24:00  GALA DINNER  
Palm Terrace, Hotel Excelsior
### TUESDAY, 29 SEPTEMBER, 2015

**07:30-15:00** REGISTRATION AND INFORMATION DESK

**08:00-09:40** SESSION VI  ENGINEERING  Hall Lavandula

**Moderators:** Toru Masuzawa, Suha Kucukaksu

#### Invited Lecture:

**PUMP THROMBUS IN ROTARY BLOOD PUMPS SUPPORTING THE LEFT AND RIGHT CIRCULATION**  
Daniel Timms, USA

**HEMOCOMPATIBILITY OF AXIAL VS. CENTRIFUGAL PUMPS**  
Benjamin C. Sun, USA

**TRASCUTANOUS ENERGY TRANSFER IN ROTARY BLOOD PUMPS: OPPORTUNITIES AND THREATS?**  
David Budgett, New Zealand

#### Selected Abstracts:

**FIBROBLAST BEHAVIOR ON ROUGH SURFACE TITANIUM IMPLANTS: POSSIBILITY OF BIOCOMPATIBLE MODIFICATION AT INTERFACE WITH LVAD**  
Kenji Suzuki

**DEVELOPMENT OF ROBUST CONTROL SYSTEM OF A MINIATURIZED MAGLEV CENTRIFUGAL BLOOD PUMP**  
Chengke Yin

**INVESTIGATION OF THE REQUIREMENTS FOR A MAGLEV DRIVE OF A ROTARY PISTON TOTAL ARTIFICIAL HEART**  
Johannes Wappenschmidt

**EFFECT OF IMPELLER GEOMETRY ON ROTATIONAL STABILITY IN A MONOPIVOT CENTRIFUGAL BLOOD PUMP**  
Masahiro Nishida

**TELEPHONE INTERVENTION PROTOCOL FOR IMPROVED VENTRICULAR ASSIST DEVICE OUTPATIENT MANAGEMENT**  
Thomas Schlöglhofer

**TISSUE INTEGRATION OF A SUTURE-LESS INFLOW CANNULA USING MELT ELECTROSPUN BILAYER SCAFFOLDS**  
Sam Liao

**DESIGN AND OPTIMIZATION STUDY OF MINIATURE MOTOR FOR CENTRIFUGAL BLOOD PUMP RELIGAHEART® ROT**  
Maciej Darlak

**DESIGN AND CFD SIMULATION OF AN INNOVATIVE INTRA-AORTIC AXIAL PUMP FOR HEART ASSIST; LIFEHEART-I**  
Elif Oran

**10:00-10:30** BREAK

**10:30-11:00** KEYNOTE LECTURE III  Hall Lavandula

**NANOTECHNOLOGY IN MEDICINE**  
Patrick Hunziker, Switzerland
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<td>SESSION VII  MISCELLANEOUS</td>
<td>Hall Lavandula</td>
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<td>HEMOLYSIS IN LVAD PATIENTS</td>
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<td>Ulrich Jorde, USA</td>
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<td>INDICATIONS FOR DESTINATION THERAPY</td>
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<td>Davor Miličić, Croatia</td>
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<td>EUROMACS, A GROWING REGISTRY FOR PATIENTS WITH MECHANICAL CIRCULATORY SUPPORT</td>
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<td>IMPACT OF OUTFLOW GRAFT ANASTOMOSIS SITE DESIGN ON AORTIC VALVE REGURGITATION AFTER LEFT VENTRICULAR ASSIST DEVICE IMPLANTATION</td>
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<td>Kei Iizuka</td>
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<td>IN VITRO SIMULATION OF PATHOPHYSIOLOGIC EVENTS TO TEST VENTRICULAR ASSIST DEVICES</td>
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<td>Anastasios Petrou</td>
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<td>CHANGES IN MITRAL VALVE REGURGITATION UNDER LONG-TERM MECHANICAL CIRCULATORY SUPPORT WITH CENTRIFUGAL TYPE CONTINUOUS-FLOW LVAD</td>
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<td>Takeshi Katsube</td>
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<td>REDUCED CONTINUOUS-FLOW LVAD SPEED DOES NOT DECREASE VON WILLEBRAND FACTOR DEGRADATION</td>
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<td>Carlo Bartoli</td>
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<td>ROTARY BLOOD PUMPS AS LEFT VENTRICULAR ASSISTENCE FOR END-STAGE HEART FAILURE: IS BECOMING THE PRIMARY OPTION?</td>
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<td>Marco Bugetti</td>
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<td>EVALUATION OF THE AACHEN COUETTE SHEARING DEVICE USING TRANSIENT CFD ANALYSIS</td>
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<td>12:15-13:30</td>
<td>LUNCH BREAK</td>
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<td>12:30-13:30</td>
<td>GENERAL ASSEMBLY</td>
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<td>13:30-14:00</td>
<td>DEVICE UPDATE</td>
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<td>CURRENT PRACTICE OF THERAPY WITH SynCardia TAH-t</td>
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<td>Sotirios Spiliopoulos, Germany</td>
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<td>14:00-14:15</td>
<td>CLOSING REMARKS</td>
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