

DETAILED SCIENTIFIC PROGRAMME						
Time	Thursday, 1 October 2009	Time	Friday, 2 October 2009	Time	Saturday, 3 October 2009	
<div style="background-color: #f08080; padding: 10px; text-align: center;"> <h2 style="margin: 0;">DAY ONE EVENT STARTS AT 1300</h2> </div>	OPENING CEREMONY		Symposium 2 : Human Interface & Usability / Ergonomics 0800 - 0815 Improving Therapy Adoption using Standardisation: Opportunities with the Human Interface Mr James Lee, WorldHeart, Inc, USA	0800 - 0815	Symposium 6 : Cannula / Inflow Other Tissue Interface Optimisation of Rotary Blood Pumps by CFD Analysis and the Effect on Blood Cell Activation Dr Johannes Mueller, Berlin Heart GmbH, Germany	
	0815 - 0830	Clinical Experience with VAD Peripherals in Respect of Usability and Correlated Safety Professor Heinrich Schima, Medical University of Vienna, Austria	0815 - 0830	The Novel Approach for the Wedge Thrombus Prevention - The Gap and the Washout Flow Around an Inflow Cannula under Varied Left Ventricular Assist Conditions Dr. Takashi Nishimura, The University of Tokyo, Japan		
	0830 - 0845	Graphical User Interface: How User Friendly Does It Need to Be? Dr Thorsten Siess, ABIOMED Europe GmbH, Germany	0830 - 0845	The Effect of Inflow Cannula Tip Configuration on the Flow Field in the Left Ventricle Dr Tomonori Tsukiya, National Cardiovascular Center of Japan, Japan		
	0845 - 0855	HeartMate II: Usability of the System Driver Mr Ben Rodemans, University Utrecht, The Netherlands	0845 - 0900	New Tissue Engineered Inflow Cannula Improves Biocompatibility Dr Yukiko Yamada, Tokyo Women's Medical University, Japan		
	0855 - 0910	Panel Discussion		0900 - 0915	Panel Discussion	
	0910 - 1000	Free Paper Session 2 : Human Interface (HIN) / Pump Miniaturisation (PM) HIN1: From the OR to Virtual House Calls: The HeartAssist5®, The Modern DeBakey VAD Dr George P Noon, Baylor College of Medicine, USA HIN2: Comparison of the HeartMate II and the HeartWare Equipment Dr Anna Lassa Meyer, Hannover Medical School, Germany PM1: Miniaturisation of the PediaFlow™ Pediatric VAD Dr Pratap Khanwilkar, WorldHeart, Inc, USA PM2: Conceptual Design of a Centrifugal Integrated Pump for Heart Recovery Mr Andreas Johann Fritschl, Helmholtz Institute - RWTH Aachen, Germany PM3: The Aachen MiniHLM - A Miniaturised Heart Lung Machine for Neonates with Congenital Heart Defect Mrs Jutta Arens, RWTH Aachen University, Germany	0915 - 0945	Free Paper Session 6 : Pump Engineering C (PE) PE11: Flow Analysis of VAD In- and Outflow Cannula Positioning using a Naturally Shaped Ventricle and Aortic Branch Mr Marco Laumen, RWTH Aachen University, Germany PE12: Development and Validation of a Novel TET System for Powering Implantable Medical Devices Dr Simon C Malpas, Tetcov, New Zealand PE13: Durability Testing of Rotary Blood Pumps for Destination Therapy Dr James C Conti, Dynatec Dalta, USA PE14: Electrical Motor and Contact Bearings of Rotary Blood Pumps: Influence of Elevated Temperatures on Human Blood Mrs Kathrin F. Hamilton, RWTH Aachen University, Germany		
	1000 - 1020	TEA BREAK / EXHIBITION / POSTER		0945 - 1020	TEA BREAK / EXHIBITION / POSTER	
	1020 - 1035	Symposium 3 : Pump Engineering Single Actuator to Drive Left and Right Centrifugal Blood Pump Dr Daniel Timms, Helmholtz Institute - RWTH University, Germany	1020 - 1035	Symposium 7 : Paediatric Circulatory Support Overview of NIH Pediatric Program : Status of CCF PEDI Pump Dr Brian W Duncan, The Cleveland Clinic Foundation, USA		
	1035 - 1050	Development of Hydrodynamic Levitation Centrifugal Blood Pump for High Durability LVAS Dr Ryo Kosaka, National Institute of Advanced Industrial Science and Technology, Japan	1035 - 1050	1050 - 1105	Status of Ensoni CPB System Dr Mark J Garner, Ensoni, Inc, USA Development and Initial Clinical Experience with the Levitronix® PEDIvast Cardiopulmonary Assist System Dr Kurt A Dasse, Levitronix LLC, USA	
	1050 - 1105	Magnetically Suspended Axial Blood Pump Dr Paul Allaire, University of Virginia, USA	1105 - 1120	1105 - 1120	Impella Paediatric Catheter Pump Dr Thorsten Siess, ABIOMED Europe GmbH, Germany	
1105 - 1120	Engineering Aspect of the MedTech Dispo Mag-lev Centrifugal Blood Pump Professor Setsuo Takatani, Tokyo Medical and Dental University, Japan	1120 - 1135	1120 - 1135	Status of Paediatric TinyPump Professor Setsuo Takatani, Tokyo Medical and Dental University, Japan		
1120 - 1130	Through the Looking Glass: Observations of a Novice on the Use and Abuse of CFD in the Design of Blood Pumps Dr Richard Wampler, USA	1135 - 1145	1135 - 1145	Development of the PediaFlow™ Paediatric Ventricular Assist Device: In Vivo Results Dr Pratap Khanwilkar, WorldHeart, Inc, USA		
1130 - 1145	Panel Discussion		1145 - 1200	Panel Discussion		
1145 - 1230	Free Paper Session 3 : Pump Engineering A (PE) PE1: An Ultracompact Magnetically Levitated Pump- Lung for Cardiac / Cardiopulmonary Support Dr Zhongjun J Wu, University of Maryland, USA PE2: Improvement of Hydrodynamic Bearing Performance in Miniaturised Rotary Blood Pumps using CFD Techniques Mr Roland Graefe, Helmholtz Institute, Germany PE3: Investigation of the Frank-Starling-Like Behaviour of the BIVACOR Rotary TAH Dr Daniel L Timms, Helmholtz Institute - RWTH University, Germany	1200 - 1230	1200 - 1230	Free Paper Session 7 : Clinical Issues A (CIS) CIS1: Comparison of Neurological Complications with Pulsatile and Rotary Blood Pumps Dr Tofy Mussivand, University of Ottawa Heart Institute, Canada CIS2: Evaluation of Hospital Readmissions in Left Ventricular Assist Device Recipients Ms Clare Wood, Royal Perth Hospital, Australia CIS3: Single Centre Experience with the Novel HeartWare HVAD Left Ventricular Assist Device Mr Martin Strueber, Hannover Medical School, Germany		
		PE4: Development of the Magnetic Suspension System for the BIVACOR BIVAD/TAH Mr Nicholas Anthony Greatrex, Queensland University of Technology, Australia PE5: The BOVAD : An Easy to Manufacture Device for Permanent Cardiac Assistance Dr Sebastian Schulte Estrup, Ruhr-University Bochum, Germany PE6: Comparison of Pump Characteristics due to Different Fluid Viscosities in the BIVACOR BIVAD/TAH Mr Tim A S Kaufmann, RWTH-Aachen University, Germany			CL5: Assessment of Myocardial Wall Stiffness and Contractility during Continuous Flow LVAD Support: A Model Study Mr Jerson Martina, University Medical Center Utrecht, The Netherlands	
		Thoratec Lunch Symposium Prevention and Management of Complications Associated with Long Term MCS Managing RV Failure as a Late Complication with LVAD Professor Jaap Laphor, University Medical Center Utrecht, The Netherlands Infection Prevention and Management Dr Georg Wiesethaler, Medical University of Vienna, Austria Anticoagulation Management and Current Guidelines Dr James Long, Integris Baptist Medical Center, USA	1230 - 1315	1230 - 1315	LUNCH (1230 - 1330 : AGM Meeting for ISRBP members)	
1300 - 1305	Welcome Speech by Dr C Sivathasan, Congress President					
1305 - 1310	Welcome Speech by Dr Yoshiyuki Taenaka, ISRBP President					
1310 - 1315	Introduction of Keynote Address by Professor Ma Jan, NTU					
1315 - 1355	Keynote Address Research and Innovation in The Lion City Professor Bertil Andersson, Singapore	1315 - 1330	BREAK	1315 - 1330	BREAK	
1355 - 1400	Vote of Thanks by Dr C Sivathasan, Congress President	1345 - 1400	FDA Guidance and Recommendation for MCS Mr James Lee, WorldHeart, Inc, USA	1345 - 1400	Update on the US Clinical Trial with Impeller Recovery Pump Dr. BriJ Miami, Pinnacle Health, USA	
1400 - 1415	HR1: The Effect of a Mag-Lev Rotary Blood Pump on Platelets and Microparticles in an In Vivo Two Week Survival Study Mr Daniel Crandall, Tokyo Medical and Dental University, Japan / Illinois Institute of Technology, USA	1400 - 1415	CE Mark for MCS Mr Hendrik Heinz, Berlin Heart GmbH, Germany	1400 - 1415	Application of Tandem Heart in Management of Advanced Cardiogenic Shock Dr. Igor D Gregoric, Center for Cardiac Support, TH / Cardiovascular Surgery and Transplant Research, USA	
1415 - 1430	HR2: Survival Study After Mid-Term Off-Pump Implantation of Axial Flow Pumps (LVAD) in a Preclinical Chronic Ischemic Heart Failure Model Dr Ali Ghodsizad, The Methodist Hospital, USA	1415 - 1430	Guideline for VAD/TAH in Japan Dr Takashi Yamane, National Institute of Advanced Industrial Science and Technology, Japan	1415 - 1430	Echo Assessment of LVAD Dr Kaiyin Lam, Royal Perth Hospital, Australia	
1430 - 1445	HR3: The Impact of Pulsatile/Non-Pulsatile Flow during Cardiac Assist in Dependency on Outflow Cannula Positioning Mr Tim A S Kaufmann, RWTH-Aachen University, Germany	1430 - 1445	Panel Discussion	1430 - 1445	Pump Replacement Dr James Long, Integris Baptist Medical Center, USA	
1445 - 1500	HR4: Comparative Influence of Pump Speed on Pump Flow Derived Indices in Rotary Blood Pump Recipients Mr Phornphop Naiyanetr, Medical University of Vienna, Austria	1445 - 1515	Free Paper Session 4 : Pump Engineering B (PE) PE7: The Need for a Low-Cost VAD in India Dr Ramchandra Kashinath Bhide, Miraj Medical Centre, India PE8: The Heart Assist 5 (TM) Rotary Blood Flow Pump: An Enhanced Haemocompatibility Flow Device Based on Computational Flow Guided Design Mr Robert Benkowski, MicroMed Cardiovascular, Inc, USA PE9: Experimental Study of an Axial Flow Pump by using Forced Whirling Motion Effect Dr Yasumasa Suzuki, Nihon University / College of Science and Technology, Japan PE10: Blood Compatibility of a Spiral Groove Bearing Mr Andrew Hilton, The University of Nottingham, UK	1445 - 1500	Panel Discussion	
1500 - 1515	HR5: Antibody Conjugation Promotes Endothelial Progenitor Cell Attachment and Haemocompatibility Mr Mark Seow Khoon Chong, National University of Singapore, Singapore					
1515 - 1535	TEA BREAK / EXHIBITION / POSTER		1515 - 1545	TEA BREAK / EXHIBITION / POSTER		
	Symposium 1 : Clinical Application / Bleeding & Thrombosis		Symposium 5 : Physiologic Control	1520 - 1605	Free Paper Session 8 : Clinical Issues B (CIS) CIS4: Bridge to Transplant (BTTx) Outcomes with the VentrAssist-Version 4 LVAD Mr Donald Stephen Esmore, The Alfred, Australia CIS5: Cardiopulmonary Response to Exercise in Patients on a Rotary Blood Pump Compared to Patients with End Stage Heart Failure Professor Luc Jacquet, Saint-Luc University Hospital, Belgium CIS6: An Advanced Extracorporeal Diagonal Flow Pump for Short-Term Mechanical Circulatory Support Dr Joerg S Sachweh, RWTH Aachen University, Germany CIS7: Development of a Disposable Mag-Lev Centrifugal Blood Pump (MedTech Dispo) Intended for Bridge-to-Bridge Applications - In Vitro and Initial In Vivo Evaluations Dr Eiki Nagoka, Tokyo Medical and Dental University, Japan CIS8: Single Centre Experience with Centrifugal Blood Pumps for Acute Mechanical Circulatory Support: A Comparison of Indication, Demography and Clinical Outcome over the Past Decade Dr Joerg Linneweber, Charité Universitätsmedizin Berlin, Germany CIS9: Minimal Invasive LVAD Insertion - The "VCAN"-Concept: First Results from Animal Experiments Dr G. Wiesethaler, Med. Univ. / Ludwig-Boltzmann-Cluster for Cardiovasc. Research, Austria	
1535 - 1550	Cardiologist Application of Continuous Blood Flow Pumps in Heart Failure Patients Associate Professor Torre A Guillermo, Weill Medical College of Cornell University / Methodist DeBakey Heart Center, The Methodist Hospital, USA	1545 - 1600	Fully Autonomous Preload-Sensitive Control of Rotary Blood Pumps Mr Andreas Arndt, Berlin Heart GmbH, Germany			
1550 - 1605	Platelet Function and Von Willebrand Factor in High Shear Stress Regions Professor Dr med Armin Reininger, University Clinic Munich, Germany	1600 - 1615	Control of Rotary Blood Pump for the Defined Training of the Assisted Ventricle Dr Francesco Moscato, Medical University of Vienna, Austria			
1605 - 1615	Successful Treatment of Gastrointestinal Bleeding in Patients Supported by Continuous Flow Left Ventricular Assist Devices Ms Helen Marie Hayes, Royal Perth Hospital, Australia					
1615 - 1625	Panel Discussion	1615 - 1625	Panel Discussion	1605 - 1655	Device Updates	
1625 - 1710	Free Paper Session 1 : Clinical Application (CL) / Bleeding & Thrombosis (BT) CL1: Native Cardiac Output and Pump Flow Changes during Exercise Testing in Patients Implanted with a Rotary Blood Pump Professor Luc Jacquet, University Hospital Saint-Luc, Belgium CL2: HeartWare Continuous-Flow LVADs: Exploring Right Heart Failure and Determinants of a Good Clinical Outcome Dr Jay Baumwool, St Vincent's Hospital, Australia CL3: Postoperative Management in Partial Mechanical Support Professor Bart P Meyns, University Hospitals Leuven, Belgium CL4: Non-Invasive Arterial Blood Pressure in Patients Supported by Continuous Flow Left Ventricular Assist Devices Mr Jerson Martina, University Medical Center Utrecht, The Netherlands BT1: Intra-Pump Thrombosis in Continuous Flow Pumps: Clinical Characteristics and Successful Treatment Professor Chris Hayward, St Vincent's Hospital, Australia BT2: In Vitro Effects of Dipyridamole on Platelet Function Measured with the Novel Multiple Analyzer Dr B Steintechner, Medical University of Vienna, Austria	1625 - 1700	Free Paper Session 5 : Physiologic Control (PHY) PHY1: Prediction of the External Work of the Native Heart from the Dynamic H-Q Curves of the Rotary Blood Pump during Left Heart Bypass Mr Yoshimasa Yokoyama, Tokyo Medical and Dental University / Institute of Biomaterials and Bioengineering, Japan PHY2: Timing of RBP Pulsations in Relation to the Cardiac Cycle to Improve RBP Physiologic Interaction Dr Daniel L Timms, Helmholtz Institute - RWTH University, Germany PHY3: Do RBP's Have Sufficient Inherent Frank-Starling Like Characteristics? - A Study into the Preload Sensitivity of RBPs Dr David Mason, University of Queensland, Australia PHY4: Effect of Alteration in Pump Speed on Pump Output and Risk of Suckdown Professor Chris Hayward, St Vincent's Hospital, Australia PHY5: Comparison of Ventricular Contractility Indices during Assistance Switched by Two Different Rotary Blood Pumps Miss Teima Keiko Sugai, Tohoku University, Japan	1655 - 1705	<ul style="list-style-type: none"> • Berlin Heart GmbH • Circulife, Inc • EvaHeart • HeartWare, Inc • Jarvik Heart, Inc • Levitronix • MicroMed Cardiovascular, Inc • Terumo Heart, Inc • Thoratec Corporation • WorldHeart, Inc 	
1900 - 2130	FUTSAL Match	1930 - Late	Congress Banquet			

POSTER COMMUNICATIONS

1-3 OCTOBER 2009

Bleeding & Thrombosis					
BTP1:	Quantification of Effects upon Blood Cell Elements by a Rotary Blood Pump using Flow Cytometry Miss Hitomi Shibasaki, Tokyo Medical and Dental University, Japan				
BTP2:	Successful Treatment of Gastrointestinal Bleeding in Patients Supported by Continuous Flow Left Ventricular Assist Devices Ms Helen Marie Hayes, Royal Perth Hospital, Australia				
Cannula / Inflow Other Tissue Interface					
CNP1:	An Unusual Cause of Impaired Flow with the Impella Recover LD Dr Erik de Worm, ZNA Middelheim, Belgium				
CNP2:	Chronic Animal Test of an Implanted Ventricular Assist Device System with Newly Developed Axial Flow Turbo Pump Mr Toshihide Mizuno, National Cardiovascular Center Institute, Japan				
CNP3:	The Effect of Pump Obstruction in a Continuous Flow Left Ventricular Assist Device Mr Jerson Martina, University Medical Center Utrecht, The Netherlands				
CNP4:	VAD Inflow Cannula Evaluation in a Mock Circulation Loop Mr Shaun David Gregory, Queensland University of Technology, Australia				
CNP5:	Paclitaxel Releasing Films for Medical Device Surfaces Dr Terry Steele, Nanyang Technological University, Singapore				
CNP6:	A New Inflow Cannula System for Paediatric Blood Pump Mr Shinya Machida, Shibaura Institute of Technology, Japan				
Clinical Issues Related to Rotary Blood Pumps					
CISP1:	CFD-Based Design Optimization of "Plug and Play" TransApical to Aorta VAD Dr Liang Zhong, National Heart Centre, Singapore				
CISP2:	Freedom from Rejection After Pulsatile versus Continuous Flow Ventricular Assist Device Implantation: A Comparative Study Dr Kewal Krishan, Mount Sinai Medical Center, USA				
CISP3:	Extracorporeal Membrane Oxygenation as a Bridge to a Bridge Ms Clare Wood, Royal Perth Hospital, Australia				
CISP4:	500+ Days Support with HeartWare HVAD Ventricular Assist Device on Antiplatelet Therapy Alone Ms Helen Hayes, Royal Perth Hospital, Australia				
CISP5:	HeartWare HVAD Left Ventricular Assist Device Patients in the Community: A Successful Outpatient Programme Ms Helen Hayes, Royal Perth Hospital, Australia				
CISP6:	Implementation of a Versatile Extracorporeal Life Support (ECLS) Cart and a Simplified Workflow in Reducing Inter Hospital Activation Time Ms Anne Hoo Ee, National Heart Centre, Singapore				
CISP7:	Case Study - Role of Axial Flow Pump in Reduction of Pulmonary Hypertension in a Patient with End Stage Heart Disease Dr Tan Teing Ee, National Heart Centre, Singapore				
Information Management / Databases					
INFOP1:	DAVID Multicentre Study: Evaluation of Left Ventricular Assist Devices in Terms of Survival, Quality of Life and Economic Implications Professor Massimo Bonacchi, University of Florence, Italy				
Minimally Invasive Implantation					
MINP1:	Surgical Approaches to Off Pump LVAD Implantation Dr Tofy Mussivand, University of Ottawa Heart Institute, Canada				
Physiologic Control					
PHYP1:	Autoregulatory Capacity of the Continuous Flow Total Artificial Heart Mr Steven M. Parnis, Texas Heart Institute, USA				
PHYP2:	Autonomic Nervous Activities in the Animals Supported by Mag-Lev Centrifugal Blood Pump Mr Ryuki Sakamoto, Institute of Biomaterials and Bioengineering, Japan				
Pump Engineering					
PEP1:	Geometry Optimisation of Chitra Centrifugal Blood Pump for Extracorporeal Circulation using CFD Studies Mr Vinodkumar V, Sree Chitra Tirunal Institute for Medical Sciences & Technology, India				
PEP2:	Development of a Piezoelectric Heart Pump Dr Tao Li, Nanyang Technological University, Singapore				
PEP3:	Evaluation of the Impeller Shroud Performance of an Axial Flow VAD using Computational Fluid Dynamics Mr Boyang Su, Nanyang Technological University, Singapore				
PEP4:	In Vivo Testing of the Redesigned MicroMed Left Ventricular Assist Device Dr Egemen Tuzun, Texas Heart Institute, USA				
PEP5:	Evaluation of the Axial Flow Pump Ventricular Assist Device by the Chronic Animal Experiments Dr Tomonori Tsukiya, National Cardiovascular Center of Japan, Japan				
PEP6:	The Durability Test Method of Continuous-Flow Ventricular Assist Devices Dr Masahiro Nishida, National Institute of Advanced Industrial Science and Technology, Japan				
PEP7:	Development of a Single Path Magnetically Levitated Axial Flow Blood Pump Dr Steven W Day, Rochester Institute of Technology, Rochester, USA				
PEP8:	A Method for Estimating Haemolysis within a Rotary Blood Pump by Computational Fluid Dynamics (CFD) Analysis Ms Saeed Takahashi, Hokkaido University, Japan				
PEP9:	Diagonal Blood Pump with 5-Axis Controlled Maglev Motor Professor Toru Masuzawa, Ibaraki University, Japan				
PEP10:	Prediction of Leakage Flow in Centrifugal Blood Pumps Mr Melvin JB Teo, Nanyang Technological University, Singapore				
PEP11:	Computational Fluid Dynamics Analysis of an Ultra-Miniature Centrifugal Blood Pump "TinyPump" Mr Hideyuki Osawa, Shibaura Institute of Technology, Japan				
PEP12:	Novel Centrifugal Blood Pump Design for Total Artificial Heart Dr Hidekazu Mizuno, Tohoku University, Japan				
PEP13:	Development of a Mixed Flow Paediatric Pump Mr Tatsuhiko Imai, Nihon University, Japan				
PEP14:	Computational Fluid Dynamic Study of a Centrifugal Blood Pump Professor Low Hong Tong, National University of Singapore, Singapore				
Pump Miniaturisation					
PMP1:	Miniaturisation of a Magnetically Levitated Axial Flow Blood Pump Dr Shanbao Cheng, Rochester Institute of Technology, USA				
Others					
OTHP1:	Postoperative Time-Related Changes of Shed Mediastinal Blood during Cardiopulmonary Bypass Dr Ken Nakamura, Jikei University School of Medicine, Japan				
OTHP2:	Use of a HeartWare LVAD to Support the Systemic Ventricle in a Patient with Congenitally Corrected Transposition of the Great Arteries Dr Alasdair J Watson, St Vincent's Hospital, Australia				
OTHP3:	Development of Computer Simulation Techniques to Implant Artificial Hearts: Anatomical Fitting Study of a Total Artificial Heart System Dr Yasuhiro Fukui, Tokyo Denki University, Japan				