18th Congress of the International Society for Rotary Blood Pumps
October 14-16, 2010, Berlin, Germany

Thursday, October 14

13:00 OPENING CEREMONY
R. Hetzer, Berlin, Germany
J. W. Long, Oklahoma City, USA
A. Grütters-Kieslich, Berlin, Germany
N. Quinkert, Berlin, Germany

14:00 HELMUT REUL YOUNG INVESTIGATOR AWARD
Chairs
U. Steinseifer, Aachen, Germany
R. Hetzer, Berlin, Germany

Development of an ultra-durable Heparin-free extracorporeal membrane oxygenation system and its clinical use for pediatric patients
T. Saito, Osaka, Japan

Operability of ventricular assist device-peripherals by untrained paramedics
L. Geidl, Vienna, Austria

Mimicking of cerebral autoregulation by flow-dependent cerebrovascular resistance: a feasibility study
T. A. S. Kaufmann, Aachen, Germany

Pulsatility can be created in rotary pumps by ECG-synchronized rotation speed change mode
A. Masahiko, Osaka, Japan

Experimental and numerical investigation of hydraulic forces and moments for the hydrodynamic suspension of a miniaturised RBP impeller
F. Amaral

BREAK

Session I 15:30 - 18:00
Chairs
T. Schmitz-Rode, Aachen, Germany
E. Potapov, Berlin, Germany

REMOTE MONITORING, TRACKING & MANAGEMENT OF MCS PATIENTS

Current status for out patient care
D. Roefe, Bad Oeynhausen, Germany

**HUMTEC: Medical assistance for patients with chronic heart disease and integration in future home environments**

T. Schmitz-Rode, Aachen, Germany

**In vitro assessment of cardiac recovery supported by rotary blood pump LVAD**

S. Oshima, Tsukuba, Japan

**Comparison between short term MCS and third generation long term MCS as BTT and outcome after heart transplantation**

H. Liden, Göteborg, Sweden

**Further refinement of the contractility index derived noninvasively from pump parameters only**

F. Moscato, Vienna, Austria

**A novel photon propagation model for non-invasive and continuous diagnosis of blood during extracorporeal circulation with rotary blood pumps**

D. Sakota, Tokyo, Japan

### HUMAN INTERFACE & USABILITY / ERGONOMICS

**Intermediate report on the ISRBP usability study**

H. Schima, Vienna, Austria

**Clinical experience with VAD's in respect of human interface**

R. zu Dohna, Berlin, Germany

**Interaction between physical activity and continuous-flow left ventricular assist device function in outpatients**

C. Hayward, Sydney, Australia

**New ease of use Impella ® pump controller: From user inputs through engineering to first clinical uses**

S. Schwandtner, Aachen, Germany

### MODERATED PANEL DISCUSSION

**Next Steps in Rotary Blood Pump Development to Improve Patient’s Comfort**

H. Schima (moderator), R. zu Dohna, C. Hayward, D. Roefe, T. Schmitz-Rode,

End of Scientific Program

### SOCCER TOURNAMENT