

## Program

### Wednesday, October 3rd

#### Tutorials

14:00 -15:45 *Frank O'Connor* Applying JavaScript and its Variations in the Clinic  
16:00 -17:30 *Stephen Rees* An Introduction to Physiological Modelling

### Thursday, October 4th

08:45 - 08:50 **Opening Address** *Stephen Rees*, chairman of ESCTAIC

08:50 - 09:15 Nautilus : a new compact E.C.G based guidance system dedicated to real-time correct positioning of the tip of central venous catheters.

*Șerban Bubenek, Emergency Institute for Cardiovascular Diseases, Bucharest, Romania*

09:15 - 10:30 *Niels Peek* **Predictive methods in Critical Care**

Prognostic models: From development to clinical practice

*Lilian Minne, University of Amsterdam, The Netherlands*

Comparison of different statistical models for Intensive Care length of stay

*Ilona Verburg, University of Amsterdam, The Netherlands*

Prognostic scales ISS-RTS-TRISS and APACHEII in Decision support of treatment children with trauma

*I.Vasilieva, The Russian State Medical University, Russia*

10:30 - 11:00 Coffee break

11:00 - 12:30 *Karim Bendjelid* **Haemodynamic Monitoring**

Monitoring Respiratory Variations of Arterial Pressure: Traps and Pitfalls

*Prof. Dr. Steffen Rex, MD, PhD, Department of Anesthesiology UZ Leuven*

Hemodynamic Monitoring with the Transpulmonary Thermodilution Technique, The best is yet to come

*Karim Bendjelid, Intensive Care Division Geneva University Hospitals, Switzerland*

A lumped parameter delay differential equation model of large arteries that captures reflection phenomena and integrates with modular models of the cardiovascular system

*Sven Zenker, University of Bonn Medical Center, Germany*

12:30 - 14:00 Lunch

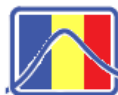
14:00 - 16:00 *Bert Mik* **Cellular Monitoring**

Cellular monitoring: A technological and creative challenge

*Bert Mik, Erasmus University, the Netherlands*

Shedding Light on Mitochondrial NADH in Vivo: From experimental animals to clinical applications

*Avraham Mayevsky, Bar-Ilan University, Israel*



Porphyrin-based in vivo mitochondrial respirometry

*Floor Harms, Erasmus University , Netherlands*

Effect of partial brain ischemia on the metabolic and hemodynamic response to hemorrhage hypotension measured in the brain and small intestine

*Mira Mandelbaum-Livnat. The Gonda Multi-disciplinary Brain Research Center, Israel*

16:00 - 16:30 Coffee break

**16:30 - 17:30 Other Topics**

Guyton at the bedside

*Jan Bakker, Erasmus MC University Medical Center, The Netherlands*

Physiological Data Stream Analytics to Evaluate Noxious Stimuli in the Newborn Infant.

*Nadja Bressan, University of Ontario, Canada*

The effect of carvedilol in oleic acid induced acute lung injury in rats

*Oezkan Oenal*

**17:30 - 18:30 E S C T A I C A G M**

**20:00- Congress Dinner** included in Registration Fee

**Friday, October 5th**

**09:00 - 11:00 Keith Ruskin Anesthesia for Unusual Environments**

Anesthesia for Intraoperative MRI

*Keith J Ruskin, Yale University, USA*

Anesthesia and Critical Care in a Helicopter

*Giulio Trillo, Udine, Italy*

Interventional Vascular Procedures: Technology and Patient Care

*Wanda Popescu, Yale University, USA*

The anesthesia implications of robotic surgery

*Rene Hagenouw, the Netherlands*

11:00 - 11:30 Coffee break

**11:30 - 12:30 Keith Ruskin Cognitive Errors and Human Factors**

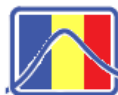
Education technology

*Keith J Ruskin, Yale University, USA*

Situation Awareness in Anaesthesia and Intensive Care – Implications for the Design of Monitoring Devices

*Christian Schulz, Munich, Germany*

12:30 - 14:00 Lunch

**14:00 - 15:30    Stephen Rees   Pulmonary Monitoring**

Electrical Impedance Tomography

*Michael Czaplak, Aachen, Germany*

End expiratory lung volume

*Giacomo Bellani, Dipart. di Medicina Perioperatoria e Terapia Intensiva,  
Monza (MI), Italy*

Bed-side measurement of pulmonary gas exchange

*Stephen Rees, Aalborg University, Denmark*

15:30 - 16:00    Coffee break

**16:00 - 17:30    Ab van Dusseldorp   Computerised Data Management in Anaesthesia and ICU**

Improving medical data collection and processing using Web technology.

*Frank O'Connor, the Netherlands*

BI solution for Data Mining hospital Information Systems

*Sergei Arseniev, Moscow, Russia*

Programmability of an Anesthesia Information Management System

*Nico van Schagen, Vrije Universiteit Medical Center,  
Amsterdam, Netherlands*

20:00    **get together with SRATI**

**Saturday, October 6th****10:00-11:30    Session - Old ESCTAIC stories, an update**

*Gabriel Gurman* Laryngeal mask in anesthesia

*Stephen Rees*    The use of peripheral venous blood for acid-base status

11:30-12:00    **Coffee and Farewell**