



SCIENTIFIC PROGRAM

	<u>Wednesday</u> 6.10.2010	<u>Thursday</u> 7.10.2010	<u>Friday</u> 8.10.2010	<u>Saturday</u> 9.10.2010
08:15 09:00		Registration & Welcome <i>S. Rees & A. van Dusseldorp</i>	Nexfin HD non invasive CO monitoring <i>A. Perel</i>	VU University Medical center
09:00 10:30		Human Factors <i>C. Kalkman</i>	Decision Support for Mechanical Ventilation <i>D. Karbing</i>	9:00-12:00 ESCTAIC Workshops in Parallel
10:30 11:00		Break	Break	
11:00 12:30		Protocol-based Medicine <i>M. Read</i>	Free Paper Session <i>S.Rees & D.Karbing</i> in parallel Auditorium & Lecture Room BVOH36	12:00-12:30 Result Presentation, Conclusion & Discussion
12:30 13:30		Lunch Break	Lunch Break	Lunch Break
13:00 15:00	VU University Medical center Tutorials	Tissue Oxygenation I <i>L. Schwarte</i>	Three Perspectives on Technology and Reality in Simulation <i>M. Erwtzman</i>	Joint Sightseeing Tour in Amsterdam
			Last Years Winner Presentation <i>S.Rees</i>	
15:00 15:30	VU University Lecture Room 2A02	Break	Break	
15:30 17:00	Professional Stress <i>G. Gurman</i>	Tissue Oxygenation II <i>L. Schwarte</i>	The Role of Open Source in Anaesthesia and ICU <i>N. van Schagen</i>	
17:00 18:30		AGM ESCTAIC		
Evening Program	Get Together <i>not covered by the congress registration</i>	Get Together <i>covered by the congress registration</i>	General Assembly & Dinner <i>covered by the congress registration</i>	

Wednesday the 6th of October 2010

13:00-15:00 Tutorials at VU University medical center

IHE: Integrating the Health Care Enterprise

N. van Schagen
Netherlands

Physiological Modelling, a hands on tutorial

S.Rees
Denmark

VU University Lecture Room 2A02

15:30-17:00 Professional Stress chair G. Gurman

- Effects of stress and hemispheric lateralization on managerial decisions *Y. Gidron*
Belgium
- Referral behaviours: effects of moods, burnout & professional stress among primary care physicians *T. Kushnir*
Israel
- Professional stress and salivary cortisol *E. Heldman*
Israel
- Professional stress and the anaesthesiologist, how evident is it? *G. Gurman*
Israel

17:00 Evening Program – Get together

Thursday the 7th of October 2010 Auditorium

08:00-08:45 Registration

08:45-09:00 Opening Address S. Rees & A. van Dusseldorp

09:00-10:30 Human Factors chair: C. Kalkman

- Automation and automation surprises: lessons from aviation. Should health care brace itself? *C. Kalkman*
- Human Factors in the Operation Room *J. Schraagen*
Netherlands
- Design of clinical working systems according to human factors *W. Friesdorf*
Germany

Coffee Break

11:00-12:30 Protocol-based Medicine *chair: M. Read*

- Safety through standardization, with healthcare's inherent complexity managed by computers *M. Read
United Kingdom*
- Simultaneous application of multiple protocols in ICU patients *J. Takala
Switzerland*

Free Paper Session

- Infusion Rate Control Algorithm for Target Control Infusion using Optimal Control *N. Bressan
Portugal*
- Rule-Based Evaluation for the Patient-Controlled Analgesia Clinical Effectiveness *C. Chiang
Taiwan*
- Glucosafe - A model-based medical decision support system for tight glycaemic control in critical care *U. Pielmeier
Denmark*

Lunch Break

13:30-15:00 Tissue Oxygenation I *chair: L. Schwarte*

- Foundation of tissue oxygenation: optimizing systemic blood flow by trans-oesophageal Doppler (TED) monitoring *P. Schober
Netherlands*
- Mixed / central venous oxymetry to assess adequacy of global tissue oxygenation *A. Groeneveld
Netherlands*
- Near infra-red spectroscopy (NIRS) to monitor tissue haemoglobin (and myoglobin) oxygenation *T. Scheeren
Netherlands*

Tea Break

15:30-17:00 Tissue Oxygenation II *chair: S. Loer*

- Reflectance spectrophotometry to measure microvascular haemoglobin oxygen saturation *L. Schwarte
Netherlands*
- Intravital microcirculatory video-imaging related to markers of tissue oxygenation *C. Ince
Netherlands*
- Monitoring mitochondrial oxygenation *B. Mik
Netherlands*

17:00-18:30 AGM ESCTAIC Auditorium

18:30- 19:30 Evening Program - Get Together - Drinks and Bites

Friday the 8th of October 2010 Auditorium

08:15-09:00 Non-invasive Cardiac Output Monitoring chair: A.Perel

- The Nexfin HD – Technology
- The Nexfin HD – Clinical Experience
- The Nexfin HD – Potential Applications

*H.van Lieshout
Netherlands*

*C. Boer
Netherlands*

*A. Perel
Israel*

09:00-10:30 Decision-support for Mechanical Ventilation chair: D.Karbing

- Decision-support for clinicians-how to implement
- Use of the INVENT system for standardized quantification of clinical preferences towards mechanical ventilator settings
- The Role of Physiological Models in Critiquing Mechanical Ventilation Treatments
- Absolute EIT Coupled to a Blood gas Physiological Model for the Assessment of Lung Ventilation in Critical Care Patients

*A. Morris
USA*

*D. Karbing
Denmark*

*S. Abbasi
USA*

*G. Mills
United Kingdom*

Coffee Break

11:00-12:30 Free Paper Session in parallel *chair: S. Rees*
Auditorium

- Implementation of a standards-based, CDA-compliant anesthesia record *M. Hurrell*
United Kingdom
- A hospital for post-ICU patients with long term mechanical ventilation in Japan *A. Okamura*
Japan
- Identifying Ergonomic Requirements of ICT for Healthcare Working Systems *B. Podtschaske*
Germany
- The Current Status of the Automatic Lung Parameter Estimator *S. Rees*
Denmark

11:00-12:30 Free Paper Session in parallel *chair: D. Karbing*
Lecture Room BV OH36

- Real-time Detection of Suppression in EEG *G. Agrawal*
USA
- Pharmacodynamic modeling of changes in pulse waveform during induction of propofol anaesthesia in volunteers: comparison between invasive and continuous non-invasive measurements of pressure pulse *C. Jeleazcov*
Germany
- Nociception index calculation *M. Jeanne*
France
- Assessing Performances of Glucose Control Algorithms on a Set of Virtual ICU Patients *P. Kalfon*
France

Lunch Break

13:30-14:45 Three Perspectives on Technology and Reality in Simulation *chair: M. Erwtteman*

- The Technology perspective *E. Stricker*
Germany
- The Anaesthesia perspective *M. Erwtteman*
Netherlands

- The ICU perspective

H. Bierman
Netherlands

14:45-15:15 Last Years Winner Presentation *chair: S. Rees*

- Probabilistic approaches to solving the inverse problem of state and parameter estimation for mechanistic models of physiology: from theory to practice

S. Zenker
Germany

Tea Break

15:30-17:00 The Role of Open Source in Anaesthesia and ICU

chair: N. van Schagen

- A Linux-based Anaesthesia Workstation
- Components of Anaesthesia Information Systems
- CAROLA: an open source based PDMS, after 25 years still experimental?

D. Nickalls
United Kingdom
N. van Schagen
Netherlands
F. de Geus
Netherlands

20:00-23:00 Evening Program - General Assembly & Dinner
boarding at Stopera City Centre

Saturday the 9th of October 2010

at VU University Medical Center 7D

09:00-12:00 ESCTAIC Workshops in Parallel

- Adam the Amsterdam Anaesthesia Simulator
- AIMS the VUmc way
- Modern OR - Theatre Tour & IT and related processes

M. Erwteman

N. van Schagen

A. van Dusseldorp
H. Sander, Berlin

12:00-12:30 Result Presentation, Conclusion & Discussion

Lunch Break

13:30-17:00 Joint Sightseeing Tour in Amsterdam

27-09-2010