



New Technologies in Anaesthesiology and Intensive Care

- PDMS
- HIS, economy
- Decision support, Point of care information technology
- Communication technology, Wireless network, Telemedicine, Telemetry
- Mobile computing, PDA
- Internet and intranet
- Monitoring technology, Signal processing
- Artificial Ventilation and airway control
- Fluid management and infusion technology,
- Computing and PK/PD applications, TCI, Computer assisted inhalation anaesthesia
- Simulation, Virtual reality, teaching
- Technology and regional anaesthesia
- Ergonomics of the anaesthesia workstation
- Human factors
- Management of workflow, management of operating theater schedule
- Computing and quality insurance
- Standards and regulations



Pierre Baudis Congress Center
11 esplanade Compans Caffarelli
BP 889
31685 Toulouse Cedex 6
FRANCE

European Society for Computing and Technology in Anaesthesia and Intensive Care (ESCTAIC)
Société Francophone pour l'Informatique et le Monitoring en Anesthésie Réanimation (SFIMAR)

<http://www.esctaic.org>

abstract submission deadline : 1 september 2004
early registration deadline: 15 august 2004



Thursday 7th october 2004 *Page 3*

Friday 8th october 2004 *Page 4*

Saturday 9th october 2004 *Page 5*

Workshops *Page 6*

Social program *Page 9*

Registration form *Page 10*

08h30 – 09h00

REGISTRATIONS

09h00 – 10h30

FREE PAPERS SESSION

Moderators: *Andre DELLERMALM (Uddevalla – Sweden) & Laurent BEYDON (Angers – France)*

Non Invasive Ventilation (NIV) with heliox in pediatric bronchospasm. *F MEURANT, R MEYER, HEMMER. Department of anesthesiology and intensive care unit, Centre Hospitalier Luxembourg Luxembourg ville –Grand Duché.*

Mortality monitoring in intensive care and ability prediction by general severity systems *MARTINEZ-ALARIO J*, TUESTA I.D.** *Intensive Care Unit and **Cardiac Surgery Department, University Hospital of the Canary Islands, Tenerife, Spain.*

Risk evaluation in cardiac surgery *J MARTINEZ-ALARIO *, I.D TUESTA.** *Intensive Care Unit and **Cardiac Surgery Department, University Hospital of the Canary Islands, Tenerife, Spain.*

Management of acute postoperative pain can be improved using a computer-based system *E SOLER, J VALLES, JC ÁLVAREZ, A MONTES . F ESCOLANO. Department of Anesthesiology, Hospital del Mar, IMAS, UAB, Barcelona, Spain.*

Web anaesthesia assessment: the new era for clinical assessment? *D CALDIROLI, M LAMPERTI, L PIGNATORO* M IMPAGLIAZZO Dept. of Neuroanaesthesia and Neurointensive Care, *Dept. of Health Administration Istituto Nazionale Neurologico IRCCS Carlo Besta – Milan, Italy*

Optimization of workflow in ICU with generalized net *Mikhail MATVEEV, ¹ Krassimir ATANASSOV,¹ Evelina PAZVANSKA,² Violeta TASSEVA¹ ¹ Centre of Biomedical Engineering, Bulgarian Academy of Sciences, Sofia, Bulgaria ² ICU – Alexander University Hospital, Sofia, Bulgaria*

10 years with Patient Information Management System: The users' survey. *Berit FORSMAN, Carina BJURSTRÖM, Arne DJURBERG, André DELLERMALM Uddevalla Hospital, Uddevalla, Sweden.*

10h30 – 11h00

COFFEE BREAK

11h00 – 12h30

Welcome *Kamram SAMII (Toulouse – France), Giulio TRILLO (Trieste – Italy), Philippe MAVOUNGOU (Nantes – France)*

New technologies

Moderators: *Pradeep RAMAYYA (Glasgow UK) & Luc BARVAIS (Brussels – Belgium)*

Telemedicine: a satellite applications domain *Antonio GUEL (CNES Toulouse – France) and Bernard COMET (MEDES Toulouse –France)*

Working in O.R. of the future *Julian GOLDMAN (Boston – USA)*

12h30 – 14h00

LUNCH

14h00 – 15h30

NEW TECHNOLOGIES

Moderators: *Gabriel GURMAN (Beer Sheva – Israel) & Claude MEISTELMAN (Nancy – France)*

A new device for automatic cardiorespiratory resuscitation (CPR). *Gabriel M. GURMAN & Oded LURIA (Beer Sheva – Israel)*

Life of a medical informatic program: certification, safety issues... *François CLEMENT (Brussels – Belgium)*

Patient Computer Interviewing: questions and tentative answers. *John GAGE (Tours – France) & Gareth KANTOR (Cleveland USA)*

Wireless mobile data processing: collection and transmission of medical data *Jean-Philippe VERGER (Bellegarde France) & Bruno SARRAZIN (Fort de France France)*

Reconciling politics, accountants and medicine *Alastair LACK (Salisbury U.K.)*

15h30 – 16h00

COFFEE BREAK

16h00 – 18h00

ECONOMY, REGULATIONS, CE marked..., COST OF COMPUTING and TECHNOLOGY in ANAESTHESIA

Moderators: *Ilkka KALLI (Helsinki – Finland) & Bertrand DEBAENE (Poitiers – France)*

CEmarked and so... *Jean-Bernard CAZALAA & Robert VIREFLEAU (Paris – France)*

Newest standards work on closed-loop control of anesthesia equipment and on supralaryngeal airway devices *Julian GOLDMAN (Boston – USA)*

Reimbursement of medical devices *Bruno FRANCE (Lyon – France)*

18h30

RECEPTION BY THE CITY OF TOULOUSE

Friday, 8th october 2004, Cassiopée room

08h30 – 10h30 SIGNAL PROCESSING – MONITORING

Moderators: *Azriel PEREL (Tel-Aviv – Israel) & Jean Claude BARTHELEMY (Saint-Etienne - France)*

Linking ventilator and monitor for hemodynamic assessment in ventilated patients *Azriel PEREL (Tel-Aviv – Israel)*

Using phototechnology in anaesthesia *Matsuyuki DOI (Hamamatsu – Japan)*

Pupillometry *Luc BARVAIS (Brussels – Belgium)*

BIS, AEP, Spectral entropy as monitor of cerebral drug effect *Michel STRUYS (Gent – Belgium)*

Monitoring autonomous nervous system *Jean Claude BARTHELEMY (Saint Etienne – France)*

10h30 – 11h00

COFFEE BREAK

11h00 – 12h30 SIMULATION, MODELING, PHARMACOLOGY (1)

Moderators: *Kai KUCK (Hamburg – Germany) & Steve SHAFER (Stanford – USA)*

Models of Drug behavior – the basis for computerized drug delivery *Steve SHAFER (Stanford – USA)*

Bioinformatics of Genomics and Proteomics *Ira RAMPIL (New York – USA)*

12h30 – 14h00

LUNCH

14h00 – 15h30 SIMULATION, MODELING, PHARMACOLOGY (2)

Moderators : *Norbert LUTTER (Erlangen – Germany) & Frédérique Servin (Paris – France)*

Use of physiological models in Anaesthesia and ICU *Stephen REES (Aalborg – Denmark)*

Computer assisted inhalational anaesthesia *Frédérique SERVIN (Paris – France)*

15h30 – 16h00

COFFEE BREAK

16h00 – 18h00 TECHNOLOGY FOR REGIONAL ANAESTHESIA – VIRTUAL REALITY

Moderators : *Marc GENTILI (Rennes – France) & Matsuyuki DOI (Hamamatsu – Japan)*

Teaching anaesthesia with virtual reality **Pierre DIEMUNSCH (Strasbourg – France)**

Multimedia, Virtual reality, régional anaesthesia *Alain DELBOS (Toulouse – France)*

Choosing a nerve stimulator *Denis JOCHUM (Colmar – France)*

Ultrasound for regional anaesthesia *Xavier MASCHINO (Paris – France)*

20h30

CONGRESS DINER [at La Feuilleraie \(Aucamville\)](#)

Saturday, 9th october 2004, Cassiopée room

09h00 – 10h30 Patient Safety through integrated solutions – technical approaches

Moderators: *Bernard POLLWEIN (Muenchen – Germany) & Martin SEDLMAYR (St. Augustin – Germany)*

The Integration Challenge *Martin SEDLMAYR St. Augustin (St. Augustin - Germany)*

SOP-development and how to share and propagate the information *Ulrich BOTHNER (Ulm - Germany)*

Patient monitoring and alarm systems in anesthesia *Kai KUCK (Hamburg – Germany)*

Algorithm and decision-aid during computerized preoperative evaluation *Pascal DUVERLIE (Lille - France)*

10h30 – 11h00

COFFEE BREAK

11h00 – 12H30 Patient Safety through integrated solutions – Ergonomic approaches

Moderators: *Wolfgang FRIESDORF (Berlin – Germany) & Ingo MARSOLEK (Berlin – Germany)*

- **From the Clinical Perspective:...** *Benno SCHWILK (Berlin – Germany)*
- **From the Industrial Perspective:...** *Thijs THEELING (Draeger Medial Solutions)*
- **From the European Perspective:...** *Wolfgang FRIESDORF (Berlin – Germany)*
- **From the International Perspective:...** *Pascale CARAYON (Madison USA)*

12h30 – 13h30 Podium discussion : Integrated Solutions – Challenges of the Future

Thursday, 7 October 2004

09h00 – 10h30 Argos room

Workshop sponsored by ASPECT Medical Systems

BIS + Pupillometry *Olivier MAZEROLLES (Toulouse – France)*

Titration of Anesthesia using a closed-loop BIS-Propofol : clinical experience *Ngai LIU (Suresnes -France)*

BIS in my practice *Anne-Marie CROS (Bordeaux – France)*

14h00 – 15h30 Argos room

Workshop sponsored by DRAGER (1)

Moderator: *Bertrand DEBAENE (Poitiers – France) & Jean-Bernard CAZALAA (Paris - France)*

Target controlled Anaesthesia

Valérie BILLARD (Villejuif – France)

14h00 – 15h30 Spot room

14h00 – 14h30: The Role of Information Administrator in Anaesthesia & ICU *Vicenzo LANZA (Palermo – Italy)*

14h30 – 15h00: Nationwide data collection using Internet *Geza NAGY (Budapest – Hungary)*

16h00 – 18h00 Argos room

Remote monitoring of anaesthetics (demos) *Philip CUMPSTON (Brisbane – Australia)*

16h00 – 18h00 Spot room

Workshop sponsored by Philips

Serveur d'Applications IntelliVue Philips *Henri BENDELAC (Philips, Suresnes – France)*

On Line Electronic Help (OLEH) for Anaesthesiologist *Azriel PEREL (Tel- Aviv – Israel)*

Certification ISO 9001:2000 dans le domaine des soins: apport d'une informatisation totale au lit du patient *François ANGENARD (Lagny – France)*

Friday, 8th October 2004
09h00 – 10h30 Argos room
Workshop sponsored by Drager (2)

Moderator: *François SZTARK (Bordeaux - France) & Jean-Louis BOURGAIN (Villejuif – France)*

Induction of anaesthesia with target-controlled inhalation of sevoflurane in adults with the ZEUS® anaesthesia machine

Anne- Marie CROS (Bordeaux – France)

Karine NOUETTE -GAULAIN (Bordeaux - France)

09h00 – 12h30 Spot room
Software demonstrations
16h00 – 18h00 Argos room
Workshop sponsored by Drager (3)

Moderator : *Nathalie NATHAN-DENIZOT (Limoges – France) & Michel STRUYS (Gent - Belgium)*

Target Controlled Anaesthesia & drug interactions

Frédérique SERVIN (Paris – France) & Valérie BILLARD (Villejuif – France)

14h – 15h30 Spot room
Wokshop Narcotrend *Ulrich GROUVEN (Narcotrend Hannover - Germany)*
16h – 18h Spot room

Free papers

The Narcotrend Index: a comparison with bispectral index, spectral parameters, and entropy parameters during propofol-remifentanyl induction of anaesthesia *Ulrich GROUVEN, Terence KRAUß, Frank BEGER, Barbara SCHULTZ, Arthur SCHULTZ Medizinische Informatik und Biometrie, Klinikum Hannover Oststadt, Hannover Medical School, Hannover, Germany*

Narcotrend changes during titrated induction by propofol TCI. *Vincent DEGOS, Valérie BILLARD, Jean Louis BOURGAIN Institut Gustave Roussy, Villejuif, Paris, France.*

Making EEG simulator *Koji MORITA, Yoshito SHIRAIISHI, Yue HUI, and Shigehito SATO. Surgical Center, Hamamatsu University Hospital, and Department of anesthesiology and Intensive care, Hamamatsu University School of medicine. 1-20-1 Handayama, Hamamatsu 431-3192 Japan kjmorita@hama-med.ac.jp*

Simultaneous recording of AEP, SSEP and EEG parameters during anaesthesia – a factor analysis *Ch.JELEAZCOV, J. SCHÜTTLER, H. SCHWILDEN Klinik für Anästhesiologie, Friedrich-Alexander-Universität, Erlangen, Germany*

Brain activity and the haemodynamic regulation in the comatose patients. *Irina. BUBNOVA, A. ASTAKHOV Urals medical academy of postgraduate education. Chelyabinsk, Russia.*

Myogenic reflex based autoregulation in brain arterial network. Interest of modeling. *G GINDRE*, T GILLART*, L SARRY**, JP REVEILLES***, JJ LEMAIRE *, P SCHOEFFLER* Département d'anesthésie réanimation, CHU G Montpied, place henry Dunant 63000 Clermont Ferrand, **ERIM faculté de médecine et pharmacie, Clermont Ferrand, ***LLAIC BP 86, université d'Auvergne, les Cézeaux 63720 Aubière,*

First teletherapy in total intravenous anaesthesia by automated infusion of propofol *H. IHMSEN*¹, *E. KOCHS*², *J. SCHÜTTLER*¹, *H. SCHWILDEN*¹, *K. NAGUIB*² *Klinik für Anästhesiologie, Friedrich-Alexander-Universität Erlangen-Nürnberg, Erlangen, Germany*¹ and *Klinik für Anästhesiologie, Technische Universität München, Munich, Germany*²

Memory processing under propofol-remifentanyl based anaesthesia and BIS monitoring for cardiac surgery with cardiopulmonary bypass. *G BEJJANI*, *P-Y LEQUEUX*, *D SCHMARTZ*, *A DUCART*, *M DEJONCKHEERE*, *L BARVAIS*. *Department of anesthesiology. Erasme University Hospital. Brussels. Belgium.*

18h00 – 20h00 (*Spot room*) ESCTAIC GENERAL ASSEMBLY

20h30 Congress Dinner at [La Feuilleraie \(Aucamville\)](#)

Workshops

Saturday 9th October 2004

09h:00 – 10h30 Argos room

Workshop sponsored by Abbott

L'anesthésie inhalatoire moderne

Modérateur : François SZTARK (Bordeaux – France)

1- Les techniques d'induction par inhalation et l'aide inspiratoire

Anne-Marie CROS (Bordeaux – France)

2- Anesthésie Balancée et profondeur d'anesthésie

Nathalie NATHAN (Limoges – France)

3-Circuit fermé et cinétique des agents inhalatoires halogénés

Karine NOUETTE - GAULAIN (Bordeaux – France)

09h00 – 12h30 Spot room

Linux – Open Source, Desktop and applications for the physicians – anaesthesiologists “Hands on session” with CULT and The Linux Documentation Project

Goal of the workshop: Demystify information technology and its medical applications, showing how trivial examples work (such as e-book, wifi, email) and how proprietary software can be replaced by free software offering identical functionality. This is a hands-on session: you will be assisted by experienced users. We suggest you bring your laptop and pda.

But de l'atelier: démystifier les technologies de l'information et leurs applications médicales, en montrant comment fonctionnent des exemples triviaux (livres électroniques, wifi, courrier électronique, messagerie électronique) ainsi que la possibilité d'utiliser à la place de logiciels propriétaires des logiciels libres (linux) à fonctions identiques. C'est un atelier pratique. Vous serez assistés par des utilisateurs avertis. Notre conseil: Apportez votre ordinateur portable, votre assistant numérique.

09h00 – 12h30 Diamant room

Introduction to NONMEM *Steve Shafer (Stanford – USA)*

SOCIAL PROGRAM EXCURSIONS

Touristic excursions (based on 25 participants)

this will be organized directly by [voyages 31](#)

	Price per person
Visit the “Cité de l’Espace” ... includes a tour escort, admission, a guided visit, planetarium, ½ day coach service	28,50 €
Walking tour of Toulouse + admission to museums ... includes a guide, admission to museums, ½ day coach service	14, 00 €
Full- day excursion to Cordes / Albi ... includes guide, lunch, wine tasting, admission to Toulouse-Lautrec museum, and Ste Cécile choir, full-day coach service	50, 00 €
Half- day excursion to Carcassonne... (visit of the Cité, the castle, w/ guide and bus transfer)	25 €

Joint ESCTAIC – SFIMAR meeting
15th ESCTAIC annual meeting – 11^{èmes}
jours de la SFIMAR
 European Society for Computing and
 Technology in Anaesthesia and Intensive Care
 Société Francophone pour l'Informatique et le
 Monitoring en Anesthésie Réanimation
 Toulouse Pierre Baudis Congress Center –
Centre de congrès Pierre Baudis de Toulouse
Toulouse 7 – 9 October 2004

Return your registration with your
paiement to : / *Inscription à retourner*
avec votre règlement à:

Marina GIMALAC - VOYAGES 31,
17 avenue des Etats Unis
31200 TOULOUSE
Phone : +33(0)5.62.72.97.34./ 39-
Fax : +33(0)5.62.72.97.30 –
Email : marina@voyages31.com

First name(s) / *Prénom* :
 Institution :
 Address / *adresse* :

 City/ *Ville* : Country/ *Pays* :
 Phone / *Tél* : Fax :
 E-mail:
 Accompanied by/ *Accompagné par* :

A - REGISTRATION FEES / *FRAIS D'INSCRIPTIONS AU CONGRES*

	Before 15th of Aug.04 <i>avant le 15/08/04</i>	After 15th of Aug.04 <i>après le15/08/04</i>	Number/ Nombre	Total
ESCTAIC members / <i>membres de l'ESCTAIC</i>	240 €	270 €	€
Non members / <i>non membres</i>	260 €	290 €	€
Resident, Nurse, Engineers/ <i>Interne, Infirmièr(e), Ingénieur</i> (justification needed/ <i>sur justificatif</i>)	160 €	190 €	€
Special registration fee for Eastern Europe (justification needed/ <i>sur justificatif</i>)	160 €	190 €	€
Diner gala accompanied / <i>Diner de gala accompagnateur</i>	50 €	50 €	€

CONFERENCE REGISTRATION

_____ **€TOTAL A**

Registration to the congress gives also the benefit of participation to the workshops , of the congress book, of the participation to the coffee breaks, lunches and congress diner organized on friday 8 october 2004. No cancellation will be accepted after 20 september 2004. / *L'inscription au congrès donne aussi droit à la participation aux ateliers , au livre du congres, aux pauses cafés et déjeuners, ainsi qu'au dîner du congrès organisé le vendredi 8 octobre 2004. Aucune annulation ne sera acceptée après le 20 septembre 2004.*

First author of each accepted free paper will be reimbursed 40 euros on site/ *Le premier auteur de chaque communication libre acceptée sera remboursé de 40 euros sur place.*

B - HOTEL ACCOMMODATION / RESERVATION HOTELIERE :

Price per room per night, breakfast included, shuttle service hotel / Convention Center / hotel included
Prix par chambre et par nuit, petit déjeuner et service de navette hotel –centre de congrès – hotel inclus

HOTELS	SINGLE ROOM PER NIGHT WITH BREAKFAST / Chambre single par nuit avec petit déjeuner	DOUBLE ROOM PER NIGHT WITH BREAKFAST / Chambre double par nuit avec petit déjeuner
HOTEL 4* city Center	173 €	193 €
HOTEL 3* « chain » City Center	146 €	162 €
HOTEL 3* « chain » City Center	105 €	143 €
HOTEL 3* City Center	88 €	112 €
HOTEL 2* « chain » City Center	77 €	89 €
HOTEL 2* City Center	61 €	76 €
HOTEL 2* City Center	58 €	70 €

Without shuttle service/Sans navette

HOTEL 3* « chain » (Near the Convention Center)	121 €	138 €
HOTEL 3* (Near the Convention Center)	94 €	103 €

A shuttle service hotel / Convention Center has been arranged. Departure times will be posted in hotels./ **Service de navette bus hotel –Centre de Congrès - Hotel**

Add agency fee : 10 € Per reservation./ **Frais d'agence 10 € par réservation**

Accommodation : 6 october 7 october 8 october
 Room type : 1 person 2 persons
 Arrival date Departure date =..... nights
 Number of nights :X Price per room..... =€+ 10 €agency fee

HOTEL BOOKING _____ **€TOTAL B**

Cancellation Policy / frais d'annulation

- Cancellation between D – 60 to D – 30 : 16 € charge per person + Agency fee
- Cancellation between D - 29 to D - 15 : First night charge + Agency fee
- Cancellation between D- 14 to arrival day : No refund

Payment

TOTAL AMOUNT DUE : A + B _____ **€**

Form of payment / *Forme de paiement* :

By check payable in euros in FRANCE to “VOYAGES 31”/ *par chèque en euros à l'ordre de Voyages31*

By credit card

Number _____ Expiration
 date: _____

Visa

Eurocard Mastercard

American Express

Upon receipt of payment, you'll receive an acquitted invoice and your voucher.

Une facture et un bon d'échange hotel vous sera adressée à réception de votre paiement.

Your signature / *Votre signature*