

PROGRAM



imvie² SYMPOSIUM

imaging for medical
and **life** sciences

March 1-3 2005

ILLKIRCH / STRASBOURG FRANCE

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Martine RENOULT (Exposium, OPTO 2005, Paris)
Paul SMIGIELSKI (ECRIN, Rhenaphotonics Alsace)
Françoise XAVIER (CNRS, ECRIN, Paris)

Pharmacology, biomedical analyse, diagnostic, specific surgery, communication between physician and hospital... require adequate images, adapted acquisition and transmission systems as well as elaborated related automations and robotics in order to guarantee the best safety and reliability.

A successful conference was given in September 2003 in Strasbourg: IMVIE 1 (Imagerie pour les Sciences du Vivant et la Médecine - Strasbourg september 15/17, 2003) to stimulate interdisciplinary activities and to update the participants (with different backgrounds) to see more and to see better in biology, constructive and reconstructive surgery, tele-surgery, safety and learning (virtual and enhanced reality). This is the second conference, open to the international and assembled a world-class program

Committee who created a high-quality program that will appeal to a wide cross-section of industrial and academic scientists alike. The portfolio of topics that will be covered in 2005 include new advanced technologies.

These advanced technologies:

- take advantage of physical properties of electromagnetic radiation: from terahertz to gamma rays including optics as well as nuclear radiations, ultrasound, magnetic resonance, magnetism, etc.
- take advantage of increasingly multi-disciplinary venture, with growing synergies between chemists, biologists, informaticians and molecular biologists. IMVIE mission is foster interaction among these subdisciplines.

Lectures during three days, will focus on emergent and applicative imaging techniques applied to biology and medical science.

In that context the IMVIE² congress aims are:

- 1- bringing together physicians, biologists and European experts of the different image acquisition and processing systems.
- 2- presenting the latest developments of these innovations,
 - enhancing and to discuss the transversal innovative aspects of the photonics applications in the life science
 - easing scientific exchanges between attendees (laboratories, SME, large industries)

The program is structured to allow significant times for discussion after each oral presentation.

Voir plus et voir mieux le vivant pour mieux l'analyser, le soigner, le corriger et le reconstruire, tels sont les mots-clés qui résumaient le colloque IMVIE 1 (Imagerie pour les Sciences du Vivant et la Médecine, Strasbourg 15/17 septembre 2003)

Une analyse bio médicale, un diagnostic, une intervention chirurgicale, des soins thérapeutiques nécessitent la mise en œuvre de plusieurs moyens d'observation et une automatisation élaborée des traitements de données pour une plus grande fiabilité. Ainsi, on assiste à une explosion des techniques d'imagerie :

- qui s'appuient sur des phénomènes physiques tels que : le rayonnement électromagnétique du TéraHertz au gamma en incluant le rayonnement nucléaire, les ultrasons, la résonance magnétique, le magnétisme,
- qui requièrent une pluridisciplinarité intensive et une grande transversalité au niveau des applications,
- qui deviennent de moins en moins invasives et traumatisantes tout en fournissant des images plus porteuses d'information.

Dans ce contexte, l'objectif d'IMVIE² est :

de réunir en un seul colloque "multispécialités" les experts français et européens en matière de systèmes et méthodes d'imagerie utilisés tant en biologie qu'en médecine humaine et vétérinaire, agroalimentaire, environnement, cosmétiques, ... afin de :

- présenter les derniers développements de ces méthodes, systèmes, et les besoins pluridisciplinaires associés,
- mettre en exergue l'aspect transversal des applications et favoriser les contacts et échanges entre les participants (laboratoires, grandes industries et PME).

Les 3 journées du colloque s'articuleront autour des techniques d'imagerie en biologie et en médecine, qu'elles soient émergentes ou applicatives

Et le programme laissera une large part pour les discussions et débats après chaque conférence, afin que le dialogue s'instaure entre les participants du colloque.

Tout participant a le droit de s'exprimer en français.

08h20 Introduction: B.Carrière, President of Louis Pasteur University, Strasbourg (F)

8H30-9H00 Opening lecture: G. Mathis⁽¹⁾, J.M. Lehn⁽²⁾

1) CIS bio international, Bagnols-sur-Céze (F)

2) ISIS ULP, Strasbourg et Collège de France, Paris (F)

9H00-9H25 *Single Quantum Dot tracking reveals GABA_AR membrane dynamics in nerve growth cones*

C. Bouzigues⁽¹⁾, S. Levi⁽²⁾, A. Triller⁽²⁾, M. Dahan⁽¹⁾

1) Lab. Kastler Brossel, Ecole Normale Supérieure, Paris (F)

2) Lab. BCS, Ecole Normale Supérieure, Paris (F)

9H30-9H55 *Monitoring brain myelination by diffusion tensor imaging*

L. Harsan, P. Poulet, B. Guignard, J. Steibel, N. Parizel,

P. Loureiro de Sousa, D. Grucker, M. Ghandour

UMR7004 CNR/ULP, Institut de Physique Biologique, Strasbourg (F)

10H-10H25 *In vivo and ex vivo analysis of human corneal endothelium*

Y. Gavet⁽¹⁻²⁾, J-C. Pinoli⁽¹⁾, G. Thuret⁽²⁾, P. Gain⁽²⁾

1) École Nationale Supérieure des Mines, Saint-Etienne (F)

2) EA3063 Lab 'Cell survival and adherence', Faculty of Medicine, Saint-Etienne (F)

10H30-11H00 Coffee break

11H00-11H25 *Imaging systems and 3D diffuse optical tomography for in vivo detection and localization of bioluminescent reporters*

O. Coquoz

Xenogen Corp., Alameda, CA, (USA)

11H30-12H00 Companies snapshots

12H00-13H30 Lunch

13H30-13H55 *Opening the nanoscale with focused visible light-concepts and experiments for breaking Abbe's barrier*

S.W. Hell,

Max Plank-Institute for Biophysical Chemistry - Department of NanoBiophotonics, Göttingen (G), Invited

14H00-14H25 *Nanobiology: imaging, spectroscopy and manipulation of single molecules and cells*

D. Anselmetti,

Bielefeld University, Dept. of Experimental Biophysics and Applied NanoSciences - Bielefeld Institute for Biophysics and NanoSciences (BINAS), Bielefeld (G), Invited

14H30-14H55 *Affinity-proteomics and anti-body-proteomics using high resolution mass spectrometry*

M. Przybylski

University of Konstanz, Konstanz (G), Invited

15H00-15H30 **Coffee break**

15H30-15H55 *Current applications and development of imaging in biomedical proteomics*

E. Bertrand, S. Hoving, D. Bonenfant, M. Faupel

Functional Genomics, Proteome Sciences, Novartis Institutes for Biomedical Research, Basel (CH)

16H00-16H25 *Matrix assisted laser desorption mass spectrometric imaging applied to biological tissue sections*

T.C. Rohner, M. Stoeckli, D.Staab

Analytical and Imaging Sciences, Novartis Institutes for BioMedical Research, Novartis, Basel (CH)

16H30-16H55 *Imaging mass spectrometry: a new platform technology for pharmaceutical discovery*

Axel Ducret⁽¹⁾, Hélène Meistermann⁽¹⁾, Angélique Augustin⁽¹⁾, Stefan Ruepp⁽²⁾, Laura Suter⁽²⁾, Hans-Rudolf Aerni⁽³⁾, Richard M. Caprioli⁽³⁾

1) Roche Center for Medical Genomics

2) Non-Clinical Development Pharma Research, F. Hoffmann-La Roche Ltd, Basel (CH)

3) Mass Spectrometry Research Center, Vanderbilt University, Nashville, (USA)

17H00-17H25 *A spot filtering tool to facilitate image analysis of 2D gels*

M. Larbaoui⁽²⁾, U. Wirth⁽¹⁾, N. Brendlen⁽¹⁾, G. Lambrou⁽²⁾, J. van Oostrum⁽¹⁾, H. Voshol⁽¹⁾ and E. Bertrand⁽¹⁻²⁾

1) Functional Genomics

2) DA Neuroscience/Ophthalmology, Novartis Institutes for Biomedical Research, Basel (CH)

17H30-17H55 *Potential of SIMS microscopy in life sciences*

J-L. Guerquin-Kern

Institut Curie Recherche Lab. Microscopie Ionique, Orsay (F)

18H00-18H25 *Biological imaging with nanoSIMS*

P. Pirrotte, J.-N. Audinot, H.-N. Migeon, F. Lasbennes, C. P. Muller

Lab. National de Santé - Département d'Immunologie, Luxembourg (L)

MARCH 2 2005

8H30-8H55 *A fluorescence and diffuse optical tomographic system for small animal imaging*

P. Poulet, R. Chabrier et B. Montcel

UMR 7004 Université Louis Pasteur / CNRS, Institut de Physique Biologique, Strasbourg (F)

9H00-9H25 *Mouse SPEC cardiac imaging*

A. Constantinesco⁽¹⁾, L. Monassier⁽²⁾, P. Choquet⁽¹⁾, L. El Fertak⁽³⁾

1) Service de Biophysique et Médecine Nucléaire, CHU Hautepierre, Strasbourg (F)

2) Lab. de Neurobiologie et Pharmacologie Cardiovasculaire, INSERM E333, Faculté de Médecine, Strasbourg (F)

3) Institut Clinique de la Souris, Illkirch (F)

9H30-9H55 *Detection of motor cortex activation using time-resolved diffuse optical methods*

B. Montcel, R. Chabrier, P. Poulet

UMR 7004 Université Louis Pasteur / CNRS, Institut de Physique Biologique, Strasbourg (F)

10H00-10H25 *Evaluation of hepatobiliary function in mice using pinhole single photon planar scintigraphy and micro-CT*

C. Goetz⁽¹⁾, Ph. Choquet⁽¹⁾, L. El Fertak⁽²⁾, I. Slim⁽¹⁾,

M. Claria⁽¹⁾, I.J. Namer⁽¹⁾, J. Auwerxs⁽²⁾, A. Constantinesco⁽¹⁾

1) Service de Biophysique et Médecine Nucléaire, Hôpitaux Universitaires de Strasbourg, CHU Hautepierre, Strasbourg (F)

2) Institut Clinique de la Souris, Illkirch (F)

10H30-11H00 **Coffee break**

11H00-11H25 *Quantification of global cerebral blood flow in rats assessed by pinhole Single Photon Emission Computed Tomography (SPECT). Anatomical registration with micro X-Ray Computed Tomography (microCT)*

Ph. Choquet⁽¹⁾, P. Billbault⁽²⁾, I.J. Namer⁽¹⁾, V. Israël-Jost⁽¹⁾, I. Slim⁽¹⁾, M. Claria⁽¹⁾, F. Schneider⁽²⁾, A. Constantinesco⁽¹⁾

1) Service de Biophysique et Médecine Nucléaire, Hôpitaux Universitaires de Strasbourg, CHU Hautepierre, Strasbourg (F)

2) Service de Réanimation, Hôpitaux Universitaires de Strasbourg, CHU Hautepierre, Strasbourg (F)

11H30-11H55 *Terahertz spectroscopy and imaging in biological systems*

G. Gallot

Lab. for Optics and Bioscience, CNRS-Ecole Polytechnique, Palaiseau (F)

12H00-12H20 **Companies snapshots**

12H20-13H30 **Lunch**

13H30-13H55 *THz spectroscopy and bioapplications*

J. Demaison

Lab. de Physique des Lasers, Atomes, et Molécules, UMR CNRS 8523, Université des Sciences et Technologies de Lille, Villeneuve d'Ascq (F)

14H00-14H25 *Temporal holography used for high resolution, real time Optical tomography*

G. Brun, M. Jacquot, I. Verrier, D. Reolon, C. Veillas

LTSI Lab. Traitement du Signal et Instrumentation / UMR CNRS 5516, University Jean Monnet, Saint-Etienne (F)

14H30-14H55 *Full-field optical coherence tomography*

A. Dubois

Lab. d'Optique Physique, Ecole Supérieure de Physique et Chimie Industrielles, CNRS, UPR A0005, Paris (F)

15H00-15H30 *Coffee break*

15H30-15H55 *Emerging ultrasound contrast functional imaging techniques*

S. Lori Bridal, J.M. Correas, O. Lucidarme, A. Ammi,

E. Jouanot, P. Laugier

Lab. d'imagerie paramétrique-CNRS- Université de Paris 6, Paris (F)

16H00-16H25 *Transient states energy by femtosecond laser spectroscopy.*

Innovating advances for life chemistry

Y. Gauduel⁽¹⁾, V. Malka⁽¹⁾, T. Launay⁽²⁾, F. Guilloud⁽²⁾, B. Charles⁽²⁾

1) L.O.A., CNRS UMR 7639, Ecole Polytechnique - ENS Techniques Avancées, Palaiseau (F)

2) ENSEA, Cergy Pontoise (F)

16H30-16H55 *Real-time mapping of intra-protein electric fields through absorption spectroscopy of tryptophans*

S. Haacke

Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS), GONLO, Strasbourg (F)

17H00-17H25 *Fiber-optic sensors in Magnetic Resonance Imaging*

A. Pham

FISO Technologies Inc., Quebec (C)

17H30-18H00 *Companies snapshots*

MARCH 3 2005

8H30-8H55 *Image processing by infrared thermography*

D. Pajani

Institut de Thermographie, Verrières-le-Buisson (F)

9H00_9H25 *Improving the lateral resolution in fluorescence microscopy by asymmetric apodization and image recombination*

O. Haeberlé, B. Simon

Lab. MIPS, Université de Haute - Alsace, Mulhouse (F)

9H30-9H55 *Third harmonic generation microscopy*

D. Débarre⁽¹⁾, W. Supatto⁽²⁾, E. Farge⁽²⁾, B. Mouliat⁽³⁾,

M.-C. Schanne-Klein⁽¹⁾ and E. Beaufrepaire⁽¹⁾

1) Lab. for optics and biosciences, CNRS UMR 7645, INSERM U451, Ecole Polytechnique, Palaiseau (F)

2) Mechanics and genetics of developmental embryology, CNRS UMR 168, Curie Institute, Paris (F)

3) Biomechanics group, INRA UMR 547, Clermont-Ferrand (F)

10H00-10H25 *Multiphoton microscopy of unstained living cardiac and vascular tissue*

A.-M. Pena⁽¹⁾, T. Boulesteix⁽¹⁾, N. Pagès⁽²⁾, K. Senni⁽³⁾,
G. Godeau⁽³⁾, M.-P. Sauviat⁽¹⁾, E. Beaurepaire⁽¹⁾,
M.-C. Schanne-Klein⁽¹⁾

- 1) Lab. for Optics and Biosciences CNRS-INSERM,
Ecole Polytechnique, Palaiseau (F)
- 2) Louis Pasteur University, Illkirch(F)
- 3) Paris V University, Montrouge (F)

10H30-11H00 *Coffee break*

11H00-11H25 *Intra operative computer assisted surgery using low cost virtual and augmented reality systems*

L. Soler, S. Nicolau, J. Schmidt, C. Koehl, M. Arenas,
D. Mutter, J. Marescaux

IIRCAD (Research Institute against Digestive Cancer), Strasbourg (F)

11H30-11H55 *Medical imaging informatics : from digital anatomy to virtual scalpels and image guided therapy*

N. Ayache, Epidaure Project,

INRIA Sophia Antipolis, Nice (F)

12H00-12H20 *2 companies snapshots*

12H20-13H30 *Lunch*

13H30-13H55 *Mosaicing of video-endoscopic images and evaluation of the resulting cartography*

R. Miranda-Luna, Y. Hernandez-Mier, W.C.P.M. Blondel,
Ch. Daul, D. Wolf

CNRS UMR 7039, CRAN (Centre de Recherche en Automatique de Nancy) Vandœuvre-Lès-Nancy (F)

14H00-14H25 *3D confined ablation and live embryo imaging with femtosecond laser pulses*

W. Supatto⁽¹⁾, D. Debarre⁽²⁾, B. Moulia⁽³⁾, E. Brouzés⁽¹⁾,
J.-L. Martin⁽²⁾, E. Farge⁽¹⁾, E. Beaurepaire⁽²⁾

- 1) Mechanics and genetics of developmental embryology,
CNRS UMR 168, Curie Institute, Paris (F)
- 2) Lab. for optics and biosciences, CNRS UMR 7645,
INSERM U451, Ecole Polytechnique,Palaiseau (F)
- 3) Biomechanics group, INRA UMR 547, Clermont-Ferrand (F)

14H30-14H55 *Toward the understanding of the interpretation errors in medical imaging*

J.-L. Gerstenmayer⁽¹⁾, V. Hazebroucq⁽²⁾

- 1) CEA, Fontenay aux Roses (F)
- 2) Assistance Publique-Hôpitaux de Paris and Université Paris-5, Paris (F)

15H00-15H30 *Coffee break*

- 15H30-15H55** *An adaptative statistical method for 4-fluorescence image sequences denoising with spatio-temporal discontinuities preserving*
J. Boulanger, C. Kervrann, P. Bouthemy
 IRISA - INRIA / INRA MIA Campus Universitaire de Beaulieu, Rennes (F)
- 16H00-16H25** *Generation of a 3D photonic nanojet to enhance scattering of light by nanoparticles : interest for microscopy*
S. Lecler⁽¹⁾, Y. Takakura⁽²⁾, P. Meyrueis⁽¹⁾
 1) Lab. des Systèmes Photoniques, Université Louis Pasteur, Strasbourg (F)
 2) TRIO-LSIIT UMR 7005, Université Louis Pasteur, Strasbourg (F)
- 16H30-16H55** *High performance detector design for mono or bi photon small animal radio-isotopic imaging*
**M. Parmentier⁽¹⁾, N. Tamada⁽¹⁾, A. Bakkali⁽¹⁾, J. Chavanelle⁽¹⁾,
 M. Paindavoine⁽²⁾, N. Sultan Salahudin⁽²⁾, A. Pousse⁽¹⁾,
 H. Boulahdour⁽¹⁾, B. Kastler⁽¹⁾**
 1) Lab. Imagerie Ingénierie Santé Université de Franche Compté, Besançon (F)
 2) LE2I Lab. Electronique Informatique Image, Dijon (F)
- 17H00-17H25** *Transmission electron tomography: methods and applications*
S. Marco
 Institut Curie UMR 168, Paris (F)
- 17H30-17H55** *Spline-based approach to orientation assignment for three-dimensional electron microscopy*
S. Jonic⁽¹⁾, C. O. S. Sorzano⁽²⁾, P. Thévenaz⁽³⁾, M. Unser⁽³⁾, N. Boisset⁽¹⁾
 1) Lab. de Minéralogie Cristallographie Paris, UPMC Paris 6, Paris (F)
 2) Escuela Politécnica Superior, Universidad San Pablo-CEU, Madrid (E)
 3) Biomedical Imaging Group, Swiss Federal Institute of Technology Lausanne (EPFL), Lausanne (CH)
- 18H00-18H25** *Mouse single photon scintigraphy*
**Ph. Choquet⁽¹⁾, L. El Fertak⁽²⁾, C. Blondet⁽¹⁾, V. Israël-Jost⁽¹⁾,
 C. Goetz⁽¹⁾, I. Slim⁽¹⁾, M. Claria⁽¹⁾, I.J. Namer⁽¹⁾,
 A. Constantinesco⁽¹⁾**
 1) Service de Biophysique et Médecine Nucléaire, Hôpitaux Universitaires de Strasbourg, CHU Hautpierre, Strasbourg (F)
 2) Institut Clinique de la Souris, Illkirch (F)

FIRST POSTERS

Monte Carlo simulation of F18 disintegration in biological matter. Application to tumour volume reconstruction in PET
C. Leloirec, C. Champion - LPMC, Université de Metz, Metz (F)

Two photon confocal microscopy with new optimized chromophores,
A. Hayek - Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS), GONLO, Strasbourg (F)

The final program will be issued to participants upon check-in at the registration desk. For updates, do not hesitate to visit our website www.rhenaphotonics.com/imvie2

Last minute proposals are still possible. A one-page abstract must be sent to Roma Grzymala by e.mail: roma@sphot.u-strasbg.fr

EXHIBITION

Companies wishing to exhibit their products in a well-fitted booth (9 m² for 1000 €) have to contact Roma Grzymala:
 Phone : + 33 (0)3 90 24 48 39 - Fax: + 33 (0)3 90 24 46 19
 e.mail: roma@rhenaphotonics.com

IMVIE PROJECT MANAGER

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RHENAPHOTONICS ALSACE (Alsace Optics and Photonics Cluster)
 Pôle API - IREPA - Laser, Bd Sébastien Brant, 67400 Illkirch (F)
 e.mail: roma@rhenaphotonics.com Web site: www.rhenaphotonics.com

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Web sites: www.rhenaphotonics.com
www.ensps.u-strasbg.fr

Venue & accommodation

Entzheim airport is 15 minutes by car from the conference location (ENSPS)

Railway information: www.sncf.com

ENSPS is 5 minutes walking from the Campus Illkirch station (tram A, Illkirch Lixembuhl)

Tram available at the Strasbourg central railway station

For more information: Office de Tourisme de Strasbourg
www.ot-strasbourg.fr

For accommodation

Please contact rapidly Office de Tourisme de Strasbourg
www.ot-strasbourg.fr

The regular registration fee for the conference covers access to the sessions of the scientific program, materials, access to the exhibition, lunches and the gala dinner.

On-site registration desk

All registrants must check in at the registration desk located at the main entrance of ENSPS. The registration desk will be open for the duration of the conference.

REGISTRATION FORM FOR THE IMVIE² SYMPOSIUM

Please fill out and return by mail or fax to: Jean Pierre Gex
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Please confirm to Roma Grzymala: roma@rhenaphotonics.com
(one registration form per person, please)

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1/ Registration Fee:

- General 400 €
 Students 180 €
 Exhibitors (*9 m² well-fitted booth*) 1000 €

Exhibitors will benefit from a 10 mn company snapshot during the plenary sessions.

The regular registration fee covers access to the sessions of the scientific program, materials, access to the exhibition, lunches and gala dinner.

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