



E-MRS Spring Meeting 2001
June 5 - 8, 2001

SYMPOSIUM G

Cell-Biosystem Material Interactions

Symposium Organizers:

Jürgen H. Breme, University of Saarlandes, Germany

Roberto Doddoli, Euro-Biomatex, France

Hartmut F. Hildebrand, Faculty of Medicine, Lille, France

Roger Thull, University of Würzburg, Germany

E-MRS 2001 SPRING MEETING

SYMPOSIUM G

Tuesday, June 5, 2001
Mardi 5 juin 2001

Morning
Matin

8:45 **Introductory**

Session I: Surface Coating and Characterisation

Chairman : H. Worch, Dresden, Germany
Co-chairman : V. Biehl, Saarbrücken, Germany

- G-I1** 8:50 Invited THE CO-ORDINATION OF A RTD PROJECT TO EUROPEAN LEVEL: DIFFICULTIES AND TRAPS BY THE DIFFERENT STEPS, **Roberto Doddoli**, General Secretary of EURO-BIOMATEX -European Interdisciplinary Research Network in Biomaterials/Biodevices Field, Strasbourg, France. 19, rue des Vergers, 67310 Dahlenheim, France
- G-I2** 9:20 Invited PHYSICOCHEMICAL PRINCIPLES OF TISSUE MATERIAL INTERACTIONS, **R. Thull**, University of Würzburg, Germany
- G-I3** 9:50 DEPOSITION OF THE NOVEL CARBON COATINGS FOR MEDICAL APPLICATIONS, V. Babaev(a), M. Guseva(b), P. Flood(a), A. Matthews(c), B. Straumal(d), N. Vershinin(d), (a)Tetranova Ltd., The Enterprise Centre, Wicklow, Ireland, (b)Dept. Phys., Moscow State University, Vorobyovy Gory, 119099 Moscow, Russia, (c)Research Centre in Surface Engineering, University of Hull, Hull HU6 7RX, UK, (d)I.V.T. Ltd. (Institute for Vacuum Technology), P.O. Box 47, 109180 Moscow, Russia
- G-I4** 10:10 SURFACE PROPERTIES OF CALCIUM PHOSPHATE PARTICLES FOR SELF SETTING BONE CEMENTS, U. Gbureck, R. Thull, Chair for Materials in Medicine and Dentistry, University of Wuerzburg, Germany
- 10:30 **BREAK**

- G-I5** 11:00 IN VITRO AND IN VIVO TESTS OF HYDROTHERMALLY SYNTHESIZED HYDROXYAPATITE COATING, Y.M. Zhang, T. Fu, Y. Han, K. Xu, School of Materials Science and Engineering, Xi'an Jiaotong University, Xi'an 710049, P. R. China
- G-I6** 11:20 MICROSTRUCTURAL STUDY OF AEROSOL-GEL DERIVED HYDROXYAPATITE COATINGS, M. Manso, J.M. Martinez-Duart, Departamento de Fisica Aplicada, Universidad Autónoma de Madrid, 28049 Madrid, Spain, P. Herrero, Instituto de Ciencia de Materiales de Madrid, 28049 Madrid, Spain and M. Langlet, C. Jiménez, Laboratoire des Matériaux et de Génie Physique, UMR 5628, ENSPG-INPG, BP 46, Domaine Universitaire, 38402 Saint Martin d'Hères, France
- G-I7** 11:40 THERMOMECHANICALLY TREATED Ti-Ni ALLOYS FOR MEDICAL PURPOSES, I.Yu. Khmelevskaya, Moscow Steel and Alloys Institute, Leninsky prospect 4, Moscow 117936, Russia
- G-I8** 12:00 INVESTIGATION OF INTERFACIAL CAPACITANCE OF Pt, Ti AND TiN COATED ELECTRODES BY ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY, A. Norlin(a,b), J. Pan(a) and C. Leygraf(a), (a)Dept. of Material Science & Engineering, Royal Institute of Technology, Drottning Kristinas Väg 51, 100 44 Stockholm, Sweden, (b)St. Jude Medical, Veddestavägen 19, 175 84 Järfälla, Sweden
- G-I9** 12:20 NON-DESTRUCTIVE 3-D EVALUATION OF A DEGRADABLE PLGA SPONGE BY MICROTOMOGRAPHY USING SYNCHROTRON RADIATION, B. Müller, F. Maspero, K. Ruffieux, M. Huser, G. Szekely, P. Thurner, ETH Zürich, Wagistrasse 23, 8952 Schlieren, Switzerland and F. Beckmann, HASYLAB am DESY, Notkestrasse 85, 22607 Hamburg, Germany
- 12:40 **LUNCH**

Tuesday, June 5, 2001
Mardi 5 juin 2001

Afternoon
Après-midi

Session II: Biocompatibility and Tissue Response

Chairman : R. Thull, Würzburg, Germany
Co-chairman : D.M. Grant, Nottingham, United Kingdom

- G-II.1** 14:00 Invited HEMOCOMPATIBILITY TESTING AND FOREIGN SURFACES IN VITRO AND IN VIVO RESULTS, **U.T. Seifert**, University of Saarlandes, Germany
- G-II.2** 14:30 EVALUATION OF THE HAEMOCOMPATIBILITY OF TITANIUM BASED BIOMATERIALS, **V. Biehl**, T. Wack, S. Winter, U.T. Seyfert, J. Breme, Lehrstuhl für metallische Werkstoffe, Universität des Saarlandes, 66041 Saarbrücken, Germany
- G-II.3** 14:50 MULTIPLE PARAMETER CYTOTOXICITY INDEX ON DENTAL ALLOYS AND PURE METALS, J. C. Hornez, A. Lefèvre, H. F. Hildebrand, Groupe de Recherche sur les Biomateriaux, UPRES EA 1049, Faculté de Médecine, 59045 Lille cedex, France and D. Joly, Sterngold*CLAL, 53 rue de Turbigo, 75003 Paris, France
- G-II.4** 15:10 GROWTH OF OSTEOBLAST-LIKE CELLS ON POROUS HYDROXYAPATITE CERAMICS: AN IN VITRO STUDY, **L. Cerroni**, R. Filocamo, M. Fabbri(a), C. Piconi(b), R. Martinetti(a) and S.G. Condò, Dental Materials, Department of Experimental Medicine and Biochemical Sciences, University of Rome Tor Vergata, Italy, (a)Fin-Ceramica S.r.l., Faenza (Ravenna), Italy, (b)ENEA, New Materials Division, Roma, Italy
- G-II.5** 15:30 CYTOTOXICAL INVESTIGATION OF TEGDMA CONTAINING BOND CEMENTS, J. Pelsh, V. Shestakova*, V. Krilova, L. Berzina, **R. Cimdins**, Riga Technical University, Biomaterials R&D Laboratory, *University of Latvia, Biomedical Research and Study Center, Latvia
- 15:50 **BREAK**
- G-II.6** 16:30 Invited IN VIVO AND IN VITRO INTERACTIONS BETWEEN BIOSYSTEMS AND DIFFERENT CERAMIC MATERIALS, **R. Cimdins**, L. Berzina, Biomaterials R&D Laboratory, Riga Technical University, 14/24 Azenes Street, 1048 Riga, Latvia, J. Vetra, Medical Academy of Latvia, 16 Dzirciema Street, 1007 Riga, Latvia, J.Bossert, Technisches Institut Materialwissenschaft, Friedrich-Schiller-Universität Jena, Löbdergraben 32, 07743 Jena, Germany
- G-II.7** 17:00 LONG TERM TISSUE RESPONSE TO TITANIUM COATED WITH DIAMOND LIKE CARBON, M. Mohanty, T.V. Anil Kumar, P.V. Mohanan, C.V. Muraleedharan, G.S. Bhuvaneshwar, BMT Wing, SCTIMS, Poojapura, Thiruvananthapuram 695012, India, F. Derangère, Y. Sampaer, ICC, Rue Robert Schuman, Z.I. des Uselles, 77350 Le Mée sur Seine, France, **R. Suryanarayanan**, Laboratoire de Physico-Chimie de l'Etat Solide, UMR8648, Bât.414, Université Paris-Sud, 91405 Orsay, France
- G-II.8** 17:20 INVESTIGATION ON PLASMA IMMERSION ION IMPLANTATION TREATED MEDICAL IMPLANTS, R. Sader, D. Krause, F. Zeilhofer, H.H. Horch, Klinik und Poliklinik für Mund-Kiefer-Gesichtschirurgie, Technische Universität München, Germany, **S. Mändl**, G. Thorwarth, Institut für Physik, Universität Augsburg, Augsburg, Germany, and B. Rauschenbach, Institut für Oberflächenmodifizierung Leipzig und Institut für Experimentelle Physik II, Universität Leipzig, Germany
- G-II.9** 17:40 PROSPECTIVE TITANIUM NICKELIDE DEVICES FOR MINIMALLY INVASIVE AND COMMON SURGERY, **E.P. Ryklina**, Moscow Steel and Alloys Institute, Leninsky prospect 4, Moscow 117936, Russia
- G-II.10** 18:00 INTERACTION ALUMINIUMOXIDE COVERING WITH BIOLOGICAL TISSUE, **A. Tamelo**, Belarussian State University of Informatics and Radioelectronics, 6 P.Brovki, 220027 Minsk, Belarus

Wednesday, June 6, 2001
Mercredi 6 juin 2001

Afternoon
Après-Midi

Session III: Nanostructure

Chairman : J. Breme, Saarbrücken, Germany

Co-chairman : L. Cerroni, Roma, Italy

- G-III1** 14:00 Invited STUDY OF CELL BEHAVIOUR ON NANO-STRUCTURED MATERIALS, **R. Barbucci**, S. Lamponi and A. Magnani, Department of Chemical and Biosystem Sciences and Technologies, University of Siena, Via E. Bastianini 12, 53100 Siena, Italy
- G-III2** 14:30 FIBROBLAST ADHESION ONTO POLYSILOXANE SURFACES PATTERNED BY ION IRRADIATION, C. Satriano(a), E. Conte(b), A. Licciardello(a) and G. Marletta(a), (a)Dipartimento di Scienze Chimiche, Università degli Studi di Catania, V.le Andrea Doria 6, 95125 Catania, Italy, (b)Istituto di Patologia Generale, Università degli Studi di Catania, via Androne 83, 95124 Catania, Italy
- G-III3** 14:50 THE EFFECT OF SURFACE CHEMISTRY AND STRUCTURE OF TiN FILMS ON PRIMARY HIPPOCAMPAL CELLS, D.M. Grant, L.A. Cyster, T.L. Parker, Biomaterials Group, School of MMEM, University of Nottingham, Nottingham NG7 2RD, UK
- G-III4** 15:10 THE DENSITY OF OXIDIZED GERMANIUM NANO-DOMES REGULATES THE INFLAMMATORY REACTIONS, B. Müller, ETH Zürich, Wägistrasse 23, 8952 Schlieren, Switzerland and M. Riedel, ProBioGen AG, Goethestrasse 50-54, 13086 Berlin, Germany
- G-III5** 15:30 MINIMIZATION OF PROTEIN ADSORPTION ON POLYVINYLIDENE FLUORIDE, D. Klee, Z. Ademovic, P. Kingshott, H.Höcker, Dept. of Textile Chemistry and Macromolecular Chemistry, RWTH Aachen, Veltmanplatz 8, 52062 Aachen, Germany
- 15:50 **BREAK**

Session IV: Cell adhesion

Chairman : H.F. Hildebrand, Lille, France

Co-chairman : F.J.G. Cuisinier, Strasbourg, France

- G-IV.1** 16:30 Invited TISSUE RESPONSE AND BIOMATERIAL INTEGRATION: THE EFFICACY OF IN VITRO METHODS, **C.J. Kirkpatrick**, K. Peters, V. Krump-Konvalinkova, R. Unger, F. Bittinger, M. Otto, Institute of Pathology, Johannes Gutenberg University, Langenbeckstr. 1, 55101 Mainz, Germany
- G-IV.2** 17:00 NONDESTRUCTIVE EVALUATION OF CELL ADHESION BY ULTRASOUNDS, **A. Myrdycz**, D. Callens, E. Radziszewski, IEMN Université de Valenciennes, 59313 Valenciennes cedex 9, France, F. Monchau, K. Kot, A. Lefèvre, H.F. Hildebrand, Groupe de Recherche sur les Biomateriaux, UPRES EA 1049, Faculté de Médecine, 59045 Lille cedex, France
- G-IV.3** 17:20 INFLUENCE OF OSTEOCALCIN ON THE MECHANICAL AND BIOLOGICAL PROPERTIES OF BIOCEMENT D MODIFIED WITH COLLAGEN I, B. Knepper-Nicolai, A. Reinstorf, I. Hofinger and **W. Pompe**, Institut für Werkstoffwissenschaft, Technische Universität Dresden, Hallwachsstr. 3, 01069 Dresden, Germany, R. Wenz, Merck Biomaterial GmbH, Frankfurter Str. 250, 64271 Darmstadt, Germany
- G-IV.4** 17:40 INTERACTIONS BETWEEN CELLS AND TITANIUM SURFACES, **E. Eisenbarth**(a), K. Schenk-Meuser(b), V. Biehl(a), D. Velten(a), H. Duschner(b), J. Breme(a), (a)Lehrstuhl für metallische Werkstoffe, Universität des Saarlandes, 66041 Saarbrücken, Germany, (b)Angewandte Struktur- und Mikroanalytik, Johannes Gutenberg Universität, Mainz, Germany
- G-IV.5** 18:00 TESTING BIOMATERIALS BY THE IN-SITU EVALUATION OF CELL RESPONSE, **M. Manso**, J.M. Martinez-Duart, Departamento de Fisica Aplicada, Universidad Autónoma de Madrid, 28049 Madrid, Spain and E. Jiménez, J.P. Garcia, Departamento de Biología Molecular, Universidad Autónoma de Madrid, 28049 Madrid, Spain and J. Pérez-Rigueiro, Departamento de Ciencia de Materiales, ETSI Caminos Canales y Puertos, Universidad Politécnica de Madrid, 28040 Madrid, Spain
- G-IV.6** 18:00 CELL ORIENTATION AND CYTOSKELETON ORGANISATION ON GROUND TITANIUM SURFACES, **E. Eisenbarth**, V. Biehl, D. Velten, J. Breme, Lehrstuhl für metallische Werkstoffe, Universität des Saarlandes, 66041 Saarbrücken, Germany; P. Linez, H.F. Hildebrand, Groupe de Recherche sur les Biomateriaux, Faculté de Médecine, 59045 Lille cedex, France
- G-IV.7** 18:40 QUANTITATION OF PLATELET ADHESION IN VITRO TO Ti AND DLC-COATED Ti USING 125I- LABELED PLATELETS, L.K. Krishnan, N. Varghese, C.V. Muraleedharan, G.S. Bhuvaneshwar, BMT Wing, Sri Chitra Tirunal Institute of Medical Sciences, Poojapura, Thiruvananthapuram 695012, India, F. Derangère, Y. Sampeur, ICC, Rue Robert Schuman, Z.I. des Uselles, 77350 Le Mée sur Seine, France, **R. Survanarayanan**, Laboratoire de Physico-Chimie de l'état Solide, CNRS, UMR 8648, 91405 Orsay, France

Thursday, June 7, 2001
Jeudi 7 juin 2001

Morning
Matin

Session V: Biomimetic Surfaces

Chairman : R. Barbucci, Siena, Italy
Co-chairman, W. Pompe, Dresden, Germany

- G-V.1** 8:30 Invited ENGINEERING OF BIOSURFACES ON METALLIC SUBSTRATES, **H. Worch**, University of Dresden, Germany
- G-V.2** 9:00 SURFACE IMPLANTATION TREATMENTS TO PREVENT INFECTION COMPLICATIONS IN SHORT TERM DEVICES, **J. Davenas**, P. Thevenard, Flora Philippe, Université Claude Bernard, 43 Bd du 11 Novembre, 69000 Lyon, France
- G-V.3** 9:20 ION BEAM TRATMENT OF TITANIUM SURFACES FOR ENHANCING DEPOSITON OF HYDROXYAPATITE FROM SOLUTION, **M.F. Matiz**, M.T. Pham, W. Matz, H. Reuther, E. Richter, FZ-Rossendorf, PO-Box 510119, 01314 Dresden, Germany
- G-V.4** 9:40 PROTEIN ADSORPTION ONTO AUTO-ASSEMBLED POLYELECTROLYTE FILMS. **G. Ladam(a)**, **P. Schaaf(b)**, **G. Decher(b)**, **J.-C. Voegel(a)** and **F.J.G.Cuisinier(a)**, (a)Unité 424 INSERM, 67085 Strasbourg Cedex, France and(b) Institut Charles Sadron (CNRS-ULP), 67083 Strasbourg Cedex, France
- G-V.5** 10:00 TRANSIENT AMIDOLYTIC ACTIVITY CHANGES OF PLASMIN ADSORBED ONTO CARBONS, **S. Hourdin**, S. Longchamp, O. Gallet and J.-M. Nigretto. Université de Cergy-Pontoise, LECMA, 95031 Cergy-Pontoise Cedex, France
- 10:20 **BREAK**
- 10:50-12:30 **Poster Session**
- G/P1** ON THE SOME ASPECTS OF THE ELECTRONIC PROPERTIES OF CALCIUM HYDROXYAPATYTE, **A.P. Shpak**, **V.L. Karbivskij**, **A.G. Vashnei**, **L.P. Kluenko**, Institute of Metal Physics, Ukrainian NAS, Kiev, Ukraine
- G/P2** A NEW SURFACE ELABORATION TO INCREASE CELLS ADHESION, **M. Bigerelle**, E. Dufresnes and A. Iost, ESI, ENSAM Lille - LMPGM, CNRS UMR 8517, 8 Boulevard Louis XIV, 59046 Lille Cedex, France and **K. Anselme** and **P. Hardouin**, IR2B, Institut Calot, Berck sur Mer, France
- G/P3** SAPPHIRE FOR MEDICAL APPLICATION **L. Lytvynov**, Science and Technological Association,"Institute for Single Crystals", Lenin Av. 60, 60001 Kharkov, Ukraine
- G/P4** HETEROGENEOUS NUCLEATION AND ADHESION OF PROTEIN (HEWL AND HSF) CRYSTALS ON DIFFERENT SURFACES, **D.S. Tsekova(a)**, **S. Dimitrova(b)** and **C.N. Nanev(a)**, (a)Institute of Physical Chemistry, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria, (b)Institute of Experimental Morphology and Antropology, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria
- G/P5** CELL SPREADING AND THE ORGANIZATION OF COMPONENTS OF CELL ADHESION DEPEND ON THE SURFACE STRUCTURE OF TITANIUM IMPLANTS, **R. Lange**, **F. Lüthen**, **U. Beck**, **B. Nebe**, **P. Becker**, **H. G. Neumann** and **J. Rychly**, Dept. of Electrical Engineering and Information Technology, Dept. of Internal Medicine, University of Rostock, 18051 Rostock and DOT Ltd., 18059 Rostock, Germany

- G/P6** INVESTIGATING SPECIFIC ANTIGEN/ANTIBODY BINDING WITH THE ATOMIC FORCE MICROSCOPE, O. Ouerghia(c), A. Touhami(a), A. Othmane(b), H. Ben Ouada(a), C. Martelet(c), C. Fretigny(d), N. Jafferizic-Renault(c), (a)Laboratoire de Physique des Interfaces, Faculté des Science de Monastir, Tunisie, (b)Laboratoire de Biophysique, Faculté de Médecine de Monastir, Tunisie, (c)Laboratoire d' Ingénierie et Fonctionnalisation des Surfaces Ecole Centrale de Lyon. France, (d)Laboratoire de Physique Quantique, ESPCI/LPQ, 10 rue Vauquelin cedex 05 Paris, France
- G/P7** RED BLOOD CELLS IMAGING AND ANTIGEN-ANTIBODY INTERACTION MEASUREMENT, A. Touhami(a), A. Othmane(b), O. Ouerghi(a), H. Ben Ouada(a), C. Fretigny(c), J.M. Chovelon(d) (a)Laboratoire de Physique des Interfaces, Faculté des Sciences de Monastir, Tunisie, (b)Laboratoire de Biophysique, Faculté de Médecine de Monastir, Tunisie, (c)Laboratoire de Physique Quantique, ESPCI, 10 rue Vauquelin cedex 05 Paris, France, (d)Laboratoire d'Application de la Chimie à
- G/P8** AFM VISUALISATION FOR OPTIMISATION OF ENZYME IMMOBILISATION ONTO SOLID CARRIERS, K. Saal(a,b), V. Sammelseig(a), A. Lihmus(a), E. Kuusk(c), G. Raidaru(a), R. Lihmus(a), T. Rinke(c), A. Rinke(a), Institutes of (a)Physics, (a)Chemical Physics, (c)Physical Chemistry, University of Tartu, Kikooli 18, 50090 Tartu, Estonia
- G/P9** HUMAN SERUM ALBUMIN ADSORPTION ONTO A-SiC:H AND A-C:H THIN FILMS DEPOSITED BY PLASMA ENHANCED CHEMICAL VAPOUR DEPOSITION, A. Auditore(a), C. Satriano(a), U. Coscia(b,c), G. Ambrosone(b,c), V. Parisi(d,c) and G. Marletta(a), (a)Dipartimento di Scienze Chimiche, University of Catania, Viale A. Doria 6, 95125 Catania, Italy, (b)INFN-Unità di Napoli, (c)Dipartimento di Scienze Fisiche, Complesso Universitario Monte S. Angelo, via Cintia, 80125 Napoli, Italy, (d)INFN, Unità di Tor Vergata, Italy
- G/P10** ELECTROCHEMICAL AND CYTOCOMPATIBILITY ASSESSMENT OF NITINOL MEMORY SHAPE ALLOY FOR ORTHODONTIC USE, L. El Medawar, P. Rocher, H.F. Hildebrand, G.R.B., UPRES EA 1049, Faculté de Médecine, 59045 Lille cedex, France, M. Traisnel, ENSCL, BP 108, 59652 Villeneuve d'Ascq, France, J. Breme, Inst. Materialwissensch. - Metalle, Universität Saarland, Saarbrücken, Germany
- G/P11** H-BONDING IN LIQUID N-METHYLFORMAMIDE AS STUDIED BY X- RAY SCATTERING, F. Hammami(a), S. Nasr, M. Oumezzine, R. Cortès(b), (a)Laboratoire Physico-Chimie Structurale, Département de Physique, Faculté des sciences, Monastir 5019, Tunisie, (b)Laboratoire CNRS Physique des Liquides et Electrochimie, ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05, France
- G/P12** WATER CONFINED IN SILICA GEL AT ROOM AND LOW TEMPERATURE, X-RAY DIFFRACTION STUDY, A. Fouzri, R. Dorbez- Sridi, M. Oumezzine, Laboratoire Physico-Chimie Structurale, Département de Physique, Faculté des Sciences de Monastir 5019, Tunisie

12:30

LUNCH

Thursday, June 7, 2001
Jeudi 7 juin 2001

Afternoon
Après-Midi

Session VI: Tissue Engineering

Chairman : C.J. Kirkpatrick, Mainz, Germany

Co-chairman : B. Müller, Zürich, Switzerland

- G-VL1** 14:00 Invited ASSESSMENT OF TECHNIQUES USED IN CALCULATING CELL-MATERIAL INTERACTIONS, **Y. Missirlis**, University of Petras, Greece
- G-VL2** 14:30 Invited THE POTENTIAL OF SILK FIBROIN TO BE A SCAFFOLD FOR TISSUE ENGINEERING PROCESSES, **C. Migliaresi**, K. Kesenci, A. Motta, Department of Materials Engineering, University of Trento, Italy
- G-VL3** 15:00 PROTEIN-COATED IMPLANT MATERIALS IN A NEW 3-DIMENSIONAL SYSTEM, **A. Hauck**, R. Thull, Chair for Material in Medicine and Dentistry, University of Wuerzburg, Germany
- G-VL4** 15:20 RAPID PROTOTYPING OF HYDROGEL SCAFFOLDS FOR USE IN TISSUE ENGINEERING, **R. Landers**(a), U. Hübner(b), R. Schmelzeisen(b), R. Mülhaupt(a), (a)Freiburger Materialforschungszentrum, Stefan-Meier-Str. 21, 79104 Freiburg, Germany, (b)Universitätsklinik fuer Mund- Kiefer- und Gesichtschirurgie, Hugstetter Str. 55, 79106 Freiburg, Germany
- G-VL5** 15:40 BIODEGRADABLE POLYMER NETWORKS BASED ON OLIGOLACTONE MACROMERS – SYNTHESIS, PROPERTIES AND BIOMEDICAL APPLICATIONS, **M. Schnabelrauch**, S. Vogt, INNOVENT e.V., Felsbachstr. 5, 07745 Jena, Germany, Y. Larcher, I. Wilke, fzmb e.V., Geranienweg 7, 99947 Bad Langensalza, Germany
- 16:00 **BREAK**
- G-W** 16:40 **Workshop : ESF NETWORK :**
- INTERFACE AND INTERACTION BIOMATERIAL / BIOSYSTEM, **H. F. Hildebrand**, Biomaterial Research Laboratory, University Lille 2, France, J. Breme, University Saarbruecken, Germany, R. Doddoli, EuroBioMatex, Strasbourg, France, R. Thull, University of Wuerzburg, Germany