CALL FOR PAPERS

Submission deadline for abstracts: February 28, 2006.

Modality of abstract(s) presentation:

Abstract(s) must be typed on an electronic standard page A4 (21×29.7 cm) by Microsoft Word 2000 and producing an ".rtf" format. You must set page format with margins: top = 2.5 cm; bottom = 2.5 cm; left 2.0 cm;

The character set must be Times New Roman 12 pt, except especial symbols normally taken from Symbol Table. The text must not exceed 250 words and must be written in English in an unique column left and right justified, with interlines spacing set on exact 14 pt.

Every abstract must include: title of the presentation (oral or poster, with character set: Times New Roman Bold 16 pt, centred), authors' names (character set: Times New Roman Bold 12 pt, centred), institutions with address, state, phone, fax and/or E-Mail address (character set: Times

New Roman Bold 12 pt, left justified), quoted with proper increasing numerical symbol (uppercase) from the author's names list.

The content of the text must produce sufficient information about the target of the study, methods utilised, results obtained and conclusions. Preference for either oral or poster presentation should be indicated. The authors whose abstract will be accepted will receive informative instructions for publication in the book of the proceedings.

The abstracts must be sent in the following ways:

- (1) to the Organized Secretariat by electronic delivery (with MIME encoding) to the E-Mail address cctfaenza@interfree.it
- (2) forwarding by mail or courier services a floppy disk or a CD-ROM, with the text recorded on, contained in a proper parcel (together with a copy written on A4 paper) to the following address:

Organising Secretariat of 10th CCT – ISTEC-CNR - To the attention of Dr. Antonio Ravaglioli - Via Granarolo 64 - 48018 Faenza (Ravenna) - Italy.

The abstracts will be examined by a board of referees.

The authors, whose abstract(s) have been accepted, will receive informative instructions on time and modality of presentation.



Giacobbe fights against the angel, P.F. Mazzucchelli-Morazzone; Milano, Museo Diocesano. In the dark the skimming light takes the moment in which the angel sprains the hip to Giacobbe: the Patriarch will come out limping, but proud for the fighting against God.

Giacobbe lotta con l'angelo, P.F. Mazzucchelli detto il Morazzone, Milano Museo Diocesano. Nel buio la luce radente coglie l'attimo in cui l'angelo sloga l'anca a Giacobbe: il patriarca ne uscirà claudicante, ma fiero di aver combattuto con Dio

PRELIMINARY PROGRAM

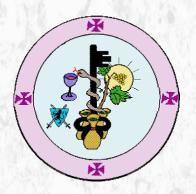






Agenzia Polo Ceramico

CERAMICS, CELLS AND TISSUES 10th Annual Seminar & Meeting



Topic of this year:

MATERIALS FOR SCAFFOLDING OF **BIOLOGICALLY ENGINEERED SYSTEMS**

INTERFACES AND INTERACTIONS ON A NANOSCALE

Congress Hall of BANCA DI ROMAGNA Via P. Costa, 3 – Faenza - Italy

May 23-27, 2006

Under the auspices of EXPOSANITA'







CO-PRESIDENTS OF THE 10th MEETING-SEMINAR

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University of Pennsylvania - Philadelphia PA (U.S.A.)

C. Rolfe Howlett

University of New South Wales – Sydney (Australia)

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Antonio Ravaglioli

Adriano Krajewski

(ravaglioli2@interfree.it)

(kraiewski@istec.cnr.it)

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PROMOTED AND ORGANIZED BY:

ISTEC - CNR

Institute of Science and Technology for Ceramics - Italian National Research Council In collaboration with

Agenzia Polo Ceramico

Organizing Secretariat: A. Beltrani, R. Ravaglioli

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Scientific Secretariat: 📻 E-Mail: cctfaenza@interfree.it 🖀 +39-347-0766986 (Rossella Rayaglioli)

REPLY FORM

(please, type or write in capital letters)

To be returned as soon as possible to:

(possibly by fax, E-Mail or air-mail)

ISTEC-CNR

Secretary of 10th CCT

Via Granarolo 64 – 48018 Faenza – Italy

E-mail: 10cct@agenziapoloceramico.it

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GENERAL INFORMATION

REGISTRATION

The registration fee for each participant includes: *«Participation to the meeting-seminar; Welcome party; Coffee breaks; Official dinner; Documentation of the meeting;* 10th CCT book of the proceedings when available». The accompanying persons can participate to the session of the meeting-seminar free of charge.

The registration fee can be paid in the 2 ways under reported:

- € 400.00 through bank transfer to: "Agenzia Polo Ceramico Soc.cons. a.r.l., Faenza Italy" on its account at the Bank "Banca di Romagna Corso Garibaldi 1, Faenza Italy" (Bank Codes: BIC: BARMIT2FXXX IBAN: IT49 I 06205 23704 000072006676, indicating clearly the participant name(s) and as description: "10th CCT 2006". Please, note that all payments by money transfer must be free of banking charge for beneficiary. Proof of payment (photocopy of the bank transfer receipt) must be sent by fax (+39-0546-670399) together with registration form to the secretariat. Registration forms received without registration fee payment will be considered void and pending. Expiration date for this transfer is April 30, 2006.
- €450.00 by cash directly to the secretariat at the meeting desk on May 23 and morning of 24, 2006. Also in this case, Please send Registration Form by fax to the Organization Secretariat. Registration desk of the participants opens on May 23, 2006 at 15.00 in the reception hall of "Banca di Romagna", Via P. Costa 3 48018 Faenza Italy (the same place of the Conference).

€200.00 Students fee (Certification required)

For futher details please contact the Organizing Secretariat—Tel. +39-347-0766986

HOTEL ACCOMODATION

Beneath is a list of hotels in Faenza and nearby. Please book directly with the hotel and their management as the organizers of CCT are not resposible for maching these arrangements. Moreover the organizers of the congress can not take any responsibility for any unforseen circumstance.

Hotel VITTORIA [★★★], Corso Garibaldi, 23, 48018 Faenza (RA)	(+39.0546.21508 fax +39.0546.29136
Hotel CAVALLINO [★★★★], Via Forlivese, 185 – 48018 Feanza (RA)	(+39.0546.634411 fax +39.0546.634440
Hotel DA GIGIOLE [*] [★★★], Piazza Carducci, 5, 48013 Brisighella (RA)	(+39.0546.81209 fax +39.0546.81275
Hotel MERIDIANA [★★★], Viale delle Terme, 19, 48013 Brisighella (RA)	(+39.0546.81590 fax +39.0546.81590
Locanda PARADISO [★★],Via Marcucci, 49, 48018 Faenza (RA)	(+39.0546.23400 fax +39.0546.694413
Hotel VALVERDE [★★★], Via Lamone, 14 – 48013 Brisighella (RA)	(+39.0546.81388 fax +39.0546.80445
Hotel CLASS [★★★★], Via S. Silvestro, 177 – 48018 Faenza (RA)	(+39.0546.46700 fax +39.0546.46676
Hotel RAMADA ENCORE [★★★], V.le Vittorio Veneto 3E-47100 Forlì	(+39.0543.22038 Fax +39.0543.458670

Note: if you have planned to book an accommodation in the hotel s of Faenza, consider to do it as soon as possible to find place because of other public events

Main topics and Round Tables

"Materials for scaffolding of biologically engineered systems - Interfaces and interactions on a nanoscale"

will be the overall topic for the 10^{th} CCT meeting. The principal aim will be to explore how specifically engineered ceramic surfaces manipulate cellular and tissue differentiation. As such, interfaces and interactions on a nanoscale will receive primary attention.

This conference is designed to create an opportunity for scientists from around the world to meet, present and informally discuss their latest discoveries and recent trends in the field of biomaterial science and engineering – particularly bioceramics – to bring benefits to human health.

Participants will find this meeting an excellent forum to discuss issues of great significance and novelty. They will include:

- Drug delivery control;
- Engineered tissues (from tissue engineering);
- Macro-, micro- and nano-scaffolds for cells and genes;
- The role of biomechanics;
- In vitro and in vivo tests (clinical experiences);
- Surface modification and composites;
- Bone regeneration and tissue repair;
- The role of coatings;

- Cements and bone tissues;
- Bone bank:
- Biochemistry, bioactivity and biocompatibility (models and experiences);
- Nanostructured biomaterials and nanoscale characterisation:
- The role of electromagnetic field;
- · Gene expression and cells transfection;
- · Patents, certification and standards;
- Biomineralisation and proteins role.

GENERAL PAPERS ALREADY ANNOUNCED

- P. Ducheyne (University of Pennsylvania-Philadelfia PA, USA) "Bioactive ceramics stimulate cell function through surface and solution mediated effects"
- D. Lichorish, N. Chen and C. Rolfe Howlett (University of New South Wales-Sydney, AUS) "The role of cellular recruitment in establishing the desired bone biomaterial interface"
- ◆ Hoste Serge (University of Ghent, B); "Sol-Gel chemistry of advanced ceramic coatings and composites".
- David Jones (Philipps University, Marburg, D); "Cell traction forces and durataxis. How cells sense the stiffness of the substrate
 and what they live".
- Claudio Nicolini (Nanoworld Institute, University of Genoa, I); "Nanotechnology for engineering new materials".
- Feza Korkusuz (Middle East Technical University, Ankara, Tur); "Hard tissue biomaterial interaction"
- Adriano Krajewski, Antonio Ravaglioli, Manfred Kirsch, Roberto Giardino, (ISTEC-CNR, Faenza and IOR Bologna, I); "Ceramic scaffolds: how to prepare a suitable support to engineering (new) tissues with cells at different specialization".
- Sven Oscarsson, Adriano Krajewski, Antonio Ravaglioli, Manfred Kirsch (Uppsala University, S, and ISTEC-CNR, Faenza, I);
 "Biomineralization and surfaces' biomimetic role".
- Davide Zaffe, Adriano Krajewski, Antonio Ravaglioli (University of Modena and Reggio Emilia and ISTEC-CNR, Faenza, I); "The
 bone tissue: a model to be copied from the physico-chemical point of view for the best scaffold".
- Giorgio Noera (University of Modena and Reggio Emilia, I); "Cutting and remodelling of living tissues. The effects on cells and tissues".
- Claudio Zannoni (University of Bologna, 1); "Nanotechnology and smart materials: designing a different kind of matter".
- Tas A. Cuneyt (Clemson University, USA); "A fast-setting orthopaedic cement formulation based on single phase CaCO₃ powders".
- Tas A. Cuneyt (Clemson University, USA); "Conversion of chemically-precipitated brushite [CaHPO₄:2H₂O] into Zn-doped tricalcium phosphate [Zn:Ca₃(PO₄)₂] to promote osteoblast proliferation".
- Anna Tampieri, Giancarlo Celotti, Elena Landi, Monica Sandri, Simone Sprio (ISTEC-CNR, Faenza, I); "Hierarchical structure of natural materials in the design of bone scaffolds".
- Aleardo Maresta (Civic Hospital "Santa Maria delle Croci", Department of Cardiology, Ravenna, I); "Bar metal STENTS: stainless steel, or other alloys, or coated?"
- A.R. Boccaccini (Imperial College, London, U.K.); "Optimization of polymer/bioglass tissue engineering scaffolds: in vitro mechanical properties and degradation behaviour".
- A.R. Boccaccini (Imperial College, London, U.K.); "Surface active bioglass-based foam scaffolds for hard tissue engineering".
- A. Ravaglioli, A. Krajewski, A. Piancastelli, A.L. Du, A. Wilson, P.K. Datta et al. (ISTEC-CNR, Faenza, I, and Northumbria University, Newcastle, U.K.); "Learning from the nature: micro- and nano-scale characterisation of eggshells".
- A. Wilson, H.L. Du, A Ravaglioli, A. Krajewski, A. Maresta (Northumbria University, Newcastle, U.K.; ISTEC-CNR, Faenza, I., and USL Ravenna, I); "Deposition and characterisation of ceramic coatings for STENTs applications".
- ◆ M. Yoshikawa (Osaka Dental University, J); "Effect of laminin for osteogenesis in porous hydroxyapatite scaffolds".
- F.-H. Lin (National Taiwan University, Hospital Taipei); "Montmorillonite clay as 5-FU drug carrier for colon cancer treatment".
- G. Guerra et al. (CNR, Pisa University, I); "Hydroxyapatite containing bioreadsorbable composites as scaffolds for bone reconstruction"
- ♦ C. Rey (Cirimat-Ensiacet Toulouse, F); "Surface modifications of nanocrystalline apatites".
- F. Branda (Dept. Materials Eng. And production-Naple University, Italy) "Porous bioactive CaO-SiO₂ glasses through chemistry"
- ♦ L. Moimas (Tampere FL) "3D porous bioactive glasses for tissue engineering"

Scientific Workshop

POSTURE AND "GIACOBBE" PROJECT



Exposanità 15th **International Healthcare Exhibition**

Bologna - Saturday, May 27, 2006

International Conference

or

Scientific and Technological Promotion and Transfer from Research to Industry

The participants of 10th CCT have been invited towards the stands of Exposanità, 15th International Exhibition for Medical Innovation and technology, to see medical devices produced in the sector and to held a conference to favour the relationship between the intention of innovation and research, the need for solutions and concrete practice, also for the public investment.

Indicative Program

Departure of the participants of the 10 th CCT for Bologna Conferences Pavillon	
Visit to Exposanità International Healthcare Exhibition	
Appetizer party offered by Exposanità	
Scientific workshop "Progetto Giacobbe" with simultaneous translation into Italian/English	
8.00 Come back to Faenza and/or to the Bologna airport	

Also this year, the Scientific and Organising Committees will award a prize for the "Best Oral Paper" presented by a young researcher on the basis of scientific content and quality of presentation.



Italian National Research Council Institute for Science and Technology for Ceramics Faenza (Italy) The title of the award is: The Fifth CCT Prize €500



This is the fifth award financed by Banca di Romagna

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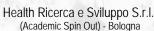
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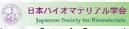
University of New South Wales School of Pathology – Sydney



Institut Nationale Polytechnique - Toulouse

Nishihara Institute, Tokyo - Japan





Japaneese Society for Biomaterials



University of Bologna IOR - Immunology and Genetic Dept.



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