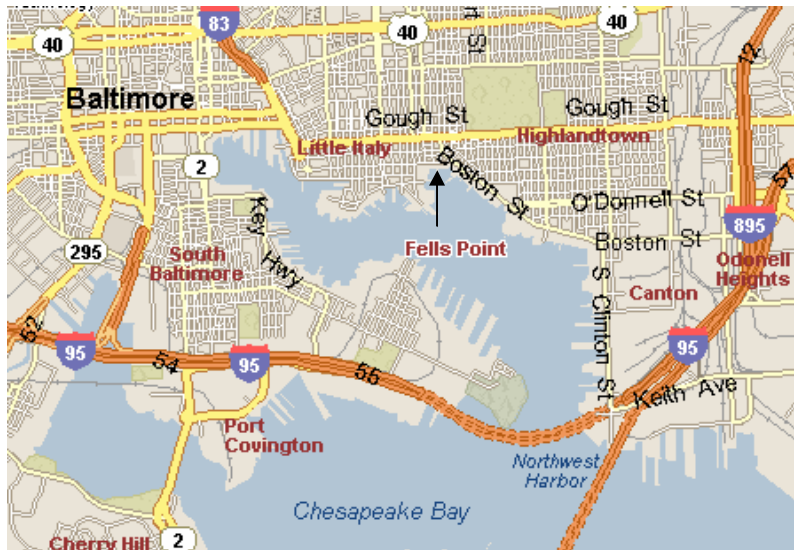


Area Map



City Map



For more information on Baltimore's inner harbor and local attractions check these websites: www.admiralfell.com
www.baltimore.org/index2.htm

GRIBOI 2003

Groupe de Recherche Interdisciplinaire sur les
Biomateriaux Osteoarticulaires Injectables

13th Interdisciplinary Research Conference on Biomaterials

Final Program

March 14th-15th, 2003

GRIBOI 2003

Conference Secretariat

Stephen M. Belkoff, PhD

Department of Orthopaedic Surgery

Johns Hopkins University-Bayview Medical Center

4940 Eastern Avenue, A674

Baltimore, MD 21224

USA

Fax: +1 410.550.2899

Email: sbelkoff@jhmi.edu

Web: www.jhbmcc.jhu.edu/griboi03

March 14th

- 08:00** *Registration*
08:30 *Welcome address*

Cement Properties I

Chairman:

- 09:00** **Influence Of Magnesium On The Working Characteristics Of Brushite Cements**
S. Rousseau, M. Buehler, L. Jordi, J. Lemaître – *Laboratoire de Technologie des Poudres, EPFL, Lausanne, Switzerland*
- 09:15** **Feasibility Of A New Dual-Paste Presentation Of Injectable Brushite Cements**
D. Brendlen, C. Pittet, J. Lemaître - *Laboratoire de Technologie des Poudres, EPFL, Lausanne, Switzerland*
- 09:30** **Evaluation Of An Injectable Composite Bone Cement With Engineered Micro-Architecture**
Wettergreen, MA, Liebschner, MAK – *Dept. of Bioengineering, Rice University, Houston, Texas USA*
- 09:45** **Design Of Three-Dimensional Composite Scaffold With Varied Engineered Micro-Architecture**
Wettergreen, MA, Liebschner, MAK – *Dept. of Bioengineering, Rice University, Houston, Texas USA*
- 10:00** *Break*
- 10:30** *Key Note Lecture*
Calcium phosphate-based resorbable bone substitutes
J. Lemaître

Cement Properties II

Chairman:

- 11:00** **New Hydraulic Cements Based On α -Tricalcium Phosphate – Calcium Sulfate Dihydrate Mixtures**
M. Bohner, H. Schmid – *Dr h.c. Robert Mathys Foundation, Bischmattstrasse, Switzerland*
- 11:15** **Optimization Of Bone Cement Properties In Vertebral Reinforcement**
Sun K. Liebschner, MAK – *Dept. of Bioengineering, Rice University, Houston, Texas USA*
- 11:30** **Performances On Magnesium Phosphate Bone Cement**
Wei Gai, Changsheng Liu – *Institute of Biomaterial of ECUST, Shanghai, China*
- 11:45** **In Vivo Behavior Of A New Biphasic Brushite Cement**
A. Oberle¹, F. Theiss¹, I. Boecken², M. Bohner³, C. Frei⁴, J. Auer¹,
B. Von Rechenberg¹ – ¹*MSRU, University of Zurich, Switzerland;* ²*Mathys Medical Ltd, Bettlach, Switzerland;* ³*RMS Foundation, Bettlach, Switzerland;* ⁴*Stratec Medical, Oberdorf, Switzerland*
- 12:00** *Lunch*

Cement Properties III

Chairman: J. Lemaître

14:00 Mechanical Adaptation Of PMMA For Augmentation Of Osteoporotic Bone

Adrian Bisig¹, Marc Bohner², Paul Heini³, Erich Schneider¹ –
AO ¹Research Institute, Clavadelerstrasse, Switzerland;
²Robert Mathys Foundation, Bettlach, Switzerland;
³Orthopaedic Surgery, University of Berne, Inselspital Berne, Switzerland

14:15 An Investigation Of Calcined Bone And b-TCP As Stem Cell Scaffolds In Bone Regeneration

Dai Kerong, Zhou Jian – *Ninth People's Hospital, Shanghai Second Medical University, Shanghai PRC*

14:30 Relationship between steady and dynamic rheological measurement of Injectable Calcium Phosphate Cement

Huifang Shao, Changsheng Liu, Yue Huang, Tunan Fang, Kang Sun

14:45 Break

Material Injection and Infiltration I

Chairman: Dr Mason

15:15 A Model To Predict The Ability Of Calcium Phosphate Cement Formulations To Infiltrate Cancellous Bone

Brian Edwards, Paul Higham – *Stryker Howmedica Osteonics, Advanced Technology Group, Mahwah, New Jersey, USA*

15:30 Drop In Pressure At Injection And Infiltration In Vertebroplasty

G. Baroud¹, P. Heini², M. Bohner³, S. Ferguson², T. Steffen¹

¹Orthopaedic Research Laboratory, McGill University, Montreal, Canada; ²M. E. Müller Institute for Biomechanics, University of Berne, Berne Switzerland; ³Dr h.c. Robert Mathys Foundation, Bettlach, Switzerland

15:45 Ex Vivo Measurement of Intravertebral Pressure During Vertebroplasty

S. Tomita, S. Molloy, M Abe, S.M. Belkoff

Johns Hopkins University-Bayview Medical Center, Baltimore, MD, USA

16:00 GRIBOI General Council (Business Meeting)

17:00 CLOSE

Saturday 15th March

Cement Injection and Infiltration II

Chairman: Dr Hardouin

9:00 Experimental And Theoretical Examinations Of Cement Infiltration In Osteoporotic Trabecular Bone

G. Baroud¹, M. Böhner², T. Steffen¹ – ¹*Orthopaedic Research Laboratory, McGill University, Montreal, Canada;* ²*Dr h.c. Robert Mathys Foundation, Bettlach, Switzerland*

9:15 Extravasation Risk Factors In Bone Augmentation

M. Böhner¹, G. Bigolin¹, B. Gasser¹, G. Baroud², P. Heini³ – ¹*Dr h. c. Robert Mathys Foundation, Bettlach, Switzerland;* ²*Orthopaedic Research Laboratory, McGill University, Royal Victoria Hospital, Montreal, Canada;* ³*Department of Orthopaedic Surgery, Inselspital, University of Berne, Berne, Switzerland*

9:30 Experimental Results To Assess The Relevance Of A Theoretical Model Describing The Injectability Of Powder – Liquid Mixtures

M. Böhner¹, G. Baroud² – ¹*Robert Mathys Foundation, Bettlach, Switzerland;* ²*Orthopaedic Research Laboratory, McGill University, Royal Victoria Hospital, Montreal, Canada*

9:45 Effect Of Bone Marrow Removal On The Infiltration Of Spinal Cancellous Bone

B. Jim, G. Baroud - *Orthopaedic Research Laboratory, McGill University, Royal Victoria Hospital, Montreal, Canada*

10:00 Break and exhibition

11:00 Key Note Lecture:

Clinical Complications and Technical Challenges in Vertebroplasty

Dr. Mathis

Cement Injection and Infiltration III

Chairman: Dr Hardouin & Dr Mason

11:30 The Effect of Cement Composition and Time on Clinical Injection Force

L. Riley III, E. Song, S.M. Belkoff

Johns Hopkins University-Bayview Medical Center, Baltimore, MD, USA

11:45 Injectable rhBMP-2 delivery systems for osteoporosis

Hyun Kim

12:00 Lunch

Cement in Clinical Practice I

Chairman: Dr Mathis

13:30 Percutaneous Vertebroplasty With A New, Biocompatible Composite

H. Deramond¹, J. Palussière², L. Haazen³ – ¹*Hôpital Nord, Amien, France;* ²*Institut. Bergonie, Bordeaux, France;* ³*Orthovita*

13:45 Clinical Interest Of Three-Dimensional Imaging On A Vascular C-Arm For Percutaneous Vertebroplasty Procedures

H. Deramond¹, F. G. Barral², Y. Troussset³, C. Riddell³, K. Benali³ – ¹*Service de Radiology, CHU Amiens Nord;* ²*Dept. of Radiology, CHU Saint-Etienne;* ³*GE Medical Systems*

14:00 In Vitro Study On The Reinforcement Of The Proximal Femur With Cortoss Bone Cement
Heini, P. F., Bechmann, J., Ferguson, S. J. – *Dept. for Orthopaedic Surgery and M. E. Müller Instit. for Biomechanics, University of Berne, Berne, Switzerland*
Butscher, A., Gasser, B. – *Robert Mathys Foundation, Bettlach, Switzerland*

14:15 Break

Cement in Clinical Practice II

Chairman: Dr Deramond

14:45 Experience With Kyphoplasty In The Treatment Of Osteoporotic Fractures – Focus On The Potential Of Fracture Reduction

Paul F. Heini, T. Franz, U. Berlemann, R. Orler – *Dept. for Orthopaedic Surgery, University of Berne, Berne, Switzerland*

15:00 Vertebroplasty – The Value Of Prophylactic Augmentation

Paul F. Heini – *Dept. for Orthopaedic Surgery, University of Berne, Berne, Switzerland*

15:15 Effects Of Pre-Cooling And Pre-Heating Procedures On Bone Cement Polymerization In Cemented Hip Replacements

Chaodi Li, James Mason – *Dept. of Mechanical Engineering, University of Notre Dame, IN*

15:30 CLOSE

18:00 Cocktail Hour

19:00 Dinner with the Blue Grass Band

Venue: Admiral Fell Inn
Fells Point
Baltimore

The 13th GRIBOI meeting is organised with the support of:
Johns Hopkins Bayview
Stryker-Howmedica-Osteonics

The 13th GRIBOI meeting is endorsed by:
Biomat.net

Registration Fee:

Before February 15, 2003: \$200 US (graduate students \$100 US)
After February 15, 2003: \$250 US (graduate students \$150 US)

Conference Dinner: \$50

This includes live entertainment from “Jericho Bridge” a Blue Grass band popular in the Baltimore area. Check out their sound at <http://www.jerichobridge.com/>

Fee covers registration to the meeting, a copy of the proceedings, lunches, and coffee breaks.

Each student must include a letter from his/her academic advisor confirming his/her student status.

Payment

Check or money order made payable to “GRIBOI 2003”. Please pay in US Dollars only.

Payment at the time of the conference may be made in cash or check. No credit cards can be accepted.

Travel:

Baltimore Washington International Airport is just 15 minutes from Baltimore and is very convenient to use. However, when shopping for competitive airfares, don’t forget to consider flying into Dulles Airport or Philadelphia. These airports often have more extensive international schedules, but will require a connection to Baltimore via plane, bus, train or rental car. Certainly BWI is most convenient.

**Hotel Reservation Form
The Admiral Fell Inn**

**13th Interdisciplinary Research
Conference on Biomaterials**

Please book your room before February 11th, 2003!

Mr., Ms, Dr, Prof:.....
First Name:.....
Last Name:.....
Position:.....
Address:.....
.....
Postal Code:.....City.....
Country:.....
Phone:.....
Fax:.....
Email:.....

Arrival Date:.....Departure Date:.....
Single room (\$139) Double room (\$159)

If Double room: King bed or 2 double beds (circle one)

Smoking or Nonsmoking (circle one)
Credit Card: Visa () Mastercard () Other ()
Credit Card Number:
Expiration Date:

***Fax this form to: The Admiral Fell Inn Phone: 410.522.7380
Fax: 410.522.0707***

Registration Form

13th Interdisciplinary Research Conference on Biomaterials

March 14-15, 2003, Baltimore, Maryland, USA

Mr./ Ms./Dr./Prof:

First Name:.....

Family Name:.....

Position:.....

Address:.....
.....

City:.....State.....

Postal/zip Code:.....

Country:.....

Phone:.....

Fax:.....

Email:.....

I will attend the 13th GRIBOI Conference Dinner

Signature:.....

Please mail this form and your registration check to the
conference secretariat by February 15th.