

The Journal of the Mechanical Behavior of Biomedical Materials will be launched at the...

The idea for the *Journal of the Mechanical Behavior of Biomedical Materials* arose out of the First International Conference on Mechanics of Biomaterials & Tissues, organised by Elsevier, which took place in December 2005.

Following the great success of this event, Elsevier will once again host this meeting on the Hawai'ian island of Kaua'i in December 2007. Join international experts for a comprehensive review of deformation and fracture behavior in biological materials and in those materials which are used to replace them in the human body. The Second International Conference on Mechanics of Biomaterials & Tissues will explore how the study of engineering materials can be relevant to the study of biomaterials.

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SECOND INTERNATIONAL CONFERENCE ON MECHANICS OF BIOMATERIALS & TISSUES

December 9-13, 2007
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Journal of the Mechanical Behavior of Biomedical Materials

Editor-in-Chief: **David Taylor**, Trinity College, Dublin, Ireland

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New for 2008

Journal of the Mechanical Behavior of Biomedical Materials

"The study of biological materials and their replacements, especially materials made by tissue engineering techniques, is seeing a huge increase in research activity; indeed, it has become a priority research area for funding in many countries.

Within this discipline, the mechanical behavior of these materials is a crucial factor, and one which requires an interdisciplinary approach. Existing journals in this field tend to be oversubscribed and, more to the point, there is no one journal that specializes in the mechanical properties of biomedical materials. It is for this reason that we all would greatly welcome a journal that is dedicated to these interests. I strongly endorse your proposal of a *Journal of the Mechanical Behavior of Biomedical Materials*".

Professor Robert O. Ritchie

H.T. & Jessie Chua Distinguished Professor of Engineering, Chairman, Department of Materials Science & Engineering, University of California, Berkeley, USA

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Message from the Editor

The *Journal of the Mechanical Behavior of Biomedical Materials* is concerned with the mechanical deformation, damage and failure under applied forces, of biological materials (at the tissue, cellular and molecular levels) and of biomaterials, i.e. those materials which are designed to mimic or replace biological materials. The primary focus of the journal is the synthesis of materials science, biology and clinical practice. Reports of fundamental scientific investigations of a theoretical or experimental nature are welcome, as are articles concerned with the practical application of materials in medical devices. The journal also publishes technical notes concerned with emerging experimental or theoretical techniques, letters to the editor and, by invitation, review articles and papers describing existing techniques for the benefit of an interdisciplinary readership.

The journal offers online submission, a short time to publication, the opportunity for ample space to develop an argument in full, and the services of referees with expertise in mechanical behavior and an understanding of the special nature of biomedical materials.

David Taylor
Editor
Trinity College, Dublin, Ireland

Relevant subjects include:

- **Stress/strain/time relationships for biological materials**
- **Fracture mechanics of hard tissues**
- **Tribological properties of joint materials and their replacements, including coatings**
- **Mechanical characterization of tissue engineering materials and scaffolds**
- **The mechanical behavior of cells, including adhesion**
- **Mechanical properties of biological molecules such as DNA**
- **Long-term fatigue, creep and wear properties of biomaterials used in implants**
- **The behavior of the human body under impact loading**
- **Mechanical performance of materials in plants and animals**
- **New techniques for the measurement of mechanical properties in biomedical materials, in both laboratory and clinical practice**
- **Computer simulations of material behavior**
- **Clinical case histories related to material performance**

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