



The Institute of Materials, Minerals & Mining

ITP11.11/05

**INDUSTRY & TECHNOLOGY POLICY BOARD
BIOMEDICAL APPLICATIONS DIVISION
ANNUAL REPORT FOR 2008**

1. Board membership

Chairman Dr Serena M Best, University of Cambridge
Secretary Ms Sue Dunkerton, TWI/Health Technologies KTN

Dr Julian Braybrook, LGC
Professor Justin Cobb, Imperial College
Dr Elsie Damien, MHRA
Dr Lucy Di Silvio, Kings College London (President of UKSB)
Professor Sandra Downes, University of Manchester
Dr Minoo Esat, Director, Furlong Foundation
Dr David Gooch, Materials Science and Technology Board
Professor Paul Hatton, Department of Dentistry, University of Sheffield
Dr Andrew Jackson, Independent
Dr Julian Jones, Imperial College
Mr Brian Kent, Independent
Mr Brian Knott, IOM3
Prof David Lee, Queen Mary University of London (and representative of TCES)
Dr Andrew Lewis, Biocompatibles UK plc
Professor Andrew Lloyd, School of Pharmacy & Biomolecular Sciences, University of Brighton
Professor Brian Meenan, Nanotechnology & Integrated Bio-Engineering Centre, University of Ulster
Professor John Nicholson, University of Greenwich
Dr Allan Ritchie, DePuy Johnson and Johnson
Professor Neil Rushton, Orthopaedic Research Unit, Addenbrooke's Hospital, Cambridge
Professor Elizabeth Tanner, University of Glasgow,
Dr Irene Turner, University of Bath
Dr. Matteo Santin, School of Pharmacy & Biomolecular Sciences, University of Brighton
Professor Pankaj Vadgama, Director, Biomedical Materials IRC, Queen Mary University of London

2. Board meetings

Thursday, 10 January, 2008 16 attendees

Present:

Dr S Best	Dr J Jones	Dr M Santin
Prof Neil Rushton	Prof P Vadgama	Mr B Knott
Dr Minoo Esat	Dr David Gooch	Mrs S Dunkerton
Dr A Ritchie	Dr A Jackson	Prof P Vadgama
Dr Brian Kent	Dr L di Silvio	Prof E Tanner
Prof D Lee		

Friday, 16 May, 2008 14 attendees

Present:

Dr Serena Best	Dr Irene Turner	Dr Matteo Santin
Prof Neil Rushton	Dr Minoo Esat	Dr David Gooch
Mrs Sue Dunkerton	Dr Andrew Jackson	Dr Brian Kent
Prof Liz Tanner	Dr Julian Braybrook	Dr Andrew Lewis
Prof Sandra Downes	Mr Ken Strafford (part-time)	

Tuesday, 30 September, 2008 10 attendees

Present:

Dr Serena Best	Dr Julian Jones	Prof Pankaj Vadgama
Minoo Esat	Dr David Gooch	Mrs Sue Dunkerton
Dr Brian Kent	Dr Andrew Lewis	Mr Brian Knott
Prof David Lee		

3. Opportunities for growth of Division Community or constraints

- New membership: The Division has worked to expand its membership and collaborations through new Board members from other active universities and Dr Jie Huang (UCL) has been invited to join the Division. The Division also discussed its role in growing overseas representation, to ensure strong links with China for example, and it was felt existing Board members already have strong links through colleagues in the UK and overseas that could be called upon as necessary.
- Collaborative work with AIME, IMechE, UKSB, RSC Biomaterials and IoP
- The Division is keen to promote and support university, EngDs and DTCs seeking accreditation for Undergraduate and Postgraduate Programmes in Biomaterials and Biomedical Engineering. A meeting was held with Dr Ken Strafford and the Accreditation Committee at the IoMMM to discuss issues concerning accreditation of taught programmes in biomaterials.
- Clinical Evening Meetings is a new and innovative initiative programme set up with a focus to engage clinicians and clinical needs with potential solutions via biomaterials/materials scientist. These can be educational, searching for funds for new research, and identifying surgeons interested in research. The programme is sponsored by the Furlong Foundation and ITP Board funding is

also sought. Meeting to be held in March 2009 at the Royal College of Surgeons.

- The Smart.net report: There was a joint meeting between the Smart Materials Committee and the Biomedical Application Division to explore potential future development combining the two areas – the meeting report is available on the IoMMM website.
- Biomedical Applications Division’s web pages: new content added and continually updated.

4. Technical programme

Events in the last 12 months

Event	Location	Date	Division role	Comments
RSC Biomaterials Chemistry Group	Manchester	15 January 2008	Co-sponsored by Division	A very good meeting with c. 75 delegates
Materials Congress	Grantham	13-15 May 2008	Organised by IoMMM, Master Class by Smith & Nephew	A very good Master Class session – but attendance was not as high as hoped. Possibly due to restricted interest of biomaterials community to attend the whole of Congress.
8 th World Biomaterials Congress	Amsterdam	28 May – 1 June 2008	Division members presenting papers and chairing sessions.	A very large event with about 3000 delegates and perceived as successful meeting
European Federation of Orthopaedic Research and Traumatology	Nice	28 May – 1 June 2008	Division members participating in meeting	A good meeting
UKSB meeting	Liverpool	26-27 June 2008	Co-sponsored by Division	A successful meeting with 108 delegates. ISBN bound abstract booklet produced.
IMechE “extravaganza”	London	3 July 2008	Co-organiser with IMechE	A very good event with around 50 delegates

Health Tech KTN On-Line meeting: Influence on wound dressing design - A developer's perspective	Bill Pig (On- line)	29 September 2008	Division members involved in organising the meeting	A successful on- line meeting with about 35 attendees.
Innovate 2008	London	7 October 2008	Division members involved in organising the meeting	A very good meeting
Medical Innovation Forum	Harrogate	21 October 2008	Division members involved in organising the meeting	A very good meeting
IMechE/IoMMM meeting on Bearing Surfaces,	London	November 2008	Division members involved in organising the meeting	A very good meeting
Wounds UK – KTN SIG meeting,	Harrogate	10-12 November 2008	Division members involved in organising the meeting	A very good meeting

Events in next 12 months

Event	Location	Date	Division role
Clinical Evening Meeting	Royal College of Surgeons, London	16 March 2009	Co-sponsored by Division
UK Tissue Cell Engineering	Glasgow	June 09	Division members involved in organisation
UKSB 2009	University of Ulster	2-3 July 2009	Co-sponsored by Division
International Congress of Cellular Engineering		September 09	Division members involved in organisation

5 Foresight / Innovation and Growth

Links with China and India are still under development via individual Division members. The Division members also provide advice and input into TSB funding initiatives in addition to their work in assessing funding applications. The major interface with the Healthcare Technologies KTN provides invaluable links to industry, academia and clinicians

6 Professional membership developments

New membership/upgrades strategy:

This has proved to be a very productive year in terms of membership development for the Division. The Division identified more than 10 potential members under the "Captains of Industry" heading and these have been processed by the Membership Department. In addition, a number of Divisional members have been successfully encouraged to upgrade their membership status. This has proved to be a very productive year in terms of membership development for the Division.

Links with IoMMM local societies and branches:

Members of the Biomedical Applications Division have strong links with the Cambridge and Anglian Materials Society and also the London Materials Society. In addition, the Division has representation on the Surface Engineering Division, the Packaging Society and the Smart Materials Committee.

7 National and international linkages with other Societies /Institutes

The Board provides cross-membership of a number of committees within a variety of institutions:

- Association of Institutions concerned with Medical Engineering (AIME)
- Institution of Mechanical Engineering (IMechE)
- Royal Society of Chemistry (RSC)
- UK Society for Biomaterials (UKSB)
- Institute of Physics and Engineering in Medicine (IPEM)
- European Society for Biomaterials (ESB)
- Tissue and Cell Engineering Society (TCES)
- Royal Academy of Engineering UK Focus for Biomedical Engineering

8 Government interfaces

The Division has strong connections with the Health Technologies KTN, and via this the Technology Strategy Board and the EPSRC. In addition, the Division has strong links with the National Measurement System within the Department of Innovation, Universities and Skills (DIUS) and by association, the Department of Business Enterprise and Regulatory Reform (BERR).

9 Publications

Website improvements: content continually updated and maintained. Features within Materials World.

10 Awards/prize

The Chapman medal has been established by the Institute for distinguished research in the field of biomedical materials, particularly with respect to biomaterials innovation which has produced benefits for patients and/or contributed to associated opportunities for industry. The winner for 2008 was **Adam Curtis CSci**, Emeritus Professor of Cell Biology at the University of Glasgow for his research into cell culture and nanobioscience. As an Honorary Senior Research Fellow at the University's Centre for Cell Engineering he is pioneering work into mechanotransduction and biomaterials.

11 Other matters

There were no other matters in 2008

