

INDUSTRY & TECHNOLOGY POLICY BOARD

Biomedical Applications Division ANNUAL REPORT FOR 2009

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 Jie Huang, Lecturer, UCL
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)
Prof 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

Monday, 12 January, 2009 - 11 attendees

Present:

Dr Serena Best	Prof John Nicholson	Prof Pankaj Vadgama
Dr Minoo Esat	Dr David Gooch	Mrs Sue Dunkerton
Dr Lucy Di Silvio	Dr Irene Turner	Dr Julian Braybrook
Prof Liz Tanner	Dr Jie Huang	

Monday, 20th May, 2009 - 8 attendees

Present:

Dr Serena Best	Prof Pankaj Vadgama	Dr Minoo Esat
Mrs Sue Dunkerton	Dr Irene Turner	Dr Jie Huang
Prof Brian Meenan	Dr Brian Kent	

Wednesday, 23 September 2009 - 13 attendees

Present:

Dr Serena Best	Prof Liz Tanner	Dr Minoo Esat
Mrs Sue Dunkerton	Dr Irene Turner	Dr Jie Huang
Dr Julian Jones	Dr Brian Kent	Dr Matteo Santin
Dr Lucy Di Silvio	Mr Brian Knott	Prof John Nicholson
Mr Keith Barnes representing IoMMM Packaging Society		

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:

- Dr Jie Huang (UCL) has joined the Division
 - Mr Keith Barnes attended a meeting to explore collaboration with the Packaging Division.
- Collaborative work with Furlong Foundation, AIME, IMechE, UKSB, IET and RSC Biomaterials.
 - The Division responded specifically to promote and support university, EngDs and DTCs seeking accreditation for Undergraduate and Postgraduate Programmes in Biomaterials and Biomedical Engineering.
 - The Clinical Evening Meetings kicked off with an orthopaedics meeting in March (Royal College of Surgeons) which was viewed positively for bringing clinicians with a materials interest together with materials scientists from business and academia. This was a successful collaboration with the Furlong Foundation. New topic areas are being reviewed to do something similar in 2010-2011.
 - The discussion with the Packaging Division highlighted various topics where there could be mutual synergies. Although there was interest on both sides it was difficult to identify issues on the medical side that merited a collaborative workshop. Further research is planned via the Board industrial members to clarify needs.
 - The Division reviewed an issue related to the coding/categorisation of biomedical engineering in various documents used by students to find degree courses. It was felt this had serious repercussions and Liz Tanner in particular had been trying to improve and feed into the review. It was noted that it was important to overseas students as the wrong categorisation could lead to difficulties with work permits.
 - Discussion was held on Awards and the Chapman medal in particular to ensure the nominations raised via the Division followed the principles as laid down and to agree nominees did not need to be UK based but should be able to demonstrate some collaboration within the UK.
 - Biomedical Applications Division's web pages: a major effort was put in this year to update the website and maintain active content.

4 Technical programme

Event	Location	Date	Division role	Comments
RSC Biomaterials meeting	London	15 January	Input to programme	Good meeting but greater awareness of IoMMM needed
Orthopaedic clinician's evening meeting	London	16 March 2009	Joint IoMMM/Furlong Foundation meeting	Good meeting with excellent mix of surgeons, academics and business. Plan to repeat this model.
Materials in Dentistry	London	8 May 2009	Low level involvement	No report
BORS (orthopaedics)	Newcastle	22-23 June 2009	Attended	Good meeting linking clinicians with academics
UKSB 2009	Ulster	2-3 July 2009	UKSB event which involves IoMMM Board members	Excellent meeting, 140 delegates A biomaterials meeting but with a lot of cell based studies included.
UK Tissue Cell Engineering	Glasgow	8-10 July 2009	Attended	Large audience, good international speakers and upcoming and

Event	Location	Date	Division role	Comments
				enthusiastic young researchers. On a par with ESB.
ESB	Lausanne	7-11 September, 2009	Board members involved via UKSB	Excellent meeting with 1200 delegates. Intention to give better profile to Young Scientists Forum
Innovate 2009	London	13 October 2009	Attended	Sessions on regenerative medicine and technologies for infectious agents.
RAEng Briefing meeting on Regenerative Medicine	London	20 October 2009	Information only	High level meeting of academics, clinicians and industrialists Paper prepared referring to importance of engineering in the translation of regenerative medicine research.

Events in next 12 months

Event	Location	Date	Division role
Royal Society of Chemistry/IoMMM Biomaterials meeting	London	January 2010	Involved in organisation
TERMIS	Galway, Ireland	13-17 June 2010	Division members involved in organisation
UK Tissue Cell Engineering	TBC	July 2010	Division members involved in organisation
UKSB 2010	Glasgow	1-2 July 2010	Co-sponsored by Division
ESB	Tampere, Finland	11-15 September 2010	Division members involved in organisation
Clinicians meeting: Maxillo-facial	Guy's, London	TBC, 2010	IoMMM BMAD meeting bringing clinicians and materials scientists together

5 Foresight / Innovation and Growth

The Division members provide advice and input into TSB initiatives via the HealthTech and Medicines KTN (represented on Board) in addition to their work in assessing funding applications.

6 Professional membership developments

New membership/upgrades strategy:

This has continued to be very productive year in terms of membership development for the Division. Many Division Board members have now become Fellows and further names were proposed using extended contacts and networks.

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 HealthTech and Medicines KTN, and via this the Technology Strategy Board, BIS and the EPSRC. In addition, the Division has strong links with the National Measurement System.

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 2009 was **Dr Denis Smith**.

11 Other matters

There were no other matters in 2009.