

ITP0809/012

INDUSTRY & TECHNOLOGY POLICY BOARD

Biomedical Applications Division ANNUAL REPORT FOR 2010

1. Board membership

Chairman Prof Serena M Best, University of Cambridge
Secretary Mrs Sue Dunkerton, TWI/HealthTech and Medicines KTN
Dr Geoffrey Andrews, CEO, Ranier Technology
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, Independent Consultant
Dr David Farrar, Smith & Nephew
Mr Roger Feneley, Independent (retired Urology surgeon)
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 Jonathan Knowles, UCL
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 and Biomolecular Sciences, University of Brighton
Professor Pankaj Vadgama, Director, Biomedical Materials IRC, Queen Mary University of London
Dr Rachel Williams, University of Liverpool
Dr Matthew O'Donnell, Manufacturing and R&D Manager, RepRegen Ltd
Mr David Sharp, Consultant, Ipswich Hospital

2. Board meetings

Tuesday 12th January, 2010 – 9 attendees

Present:

Prof Serena Best	Prof Andrew Lewis	Dr Minoo Esat
Mrs Sue Dunkerton	Prof Andrew Lloyd	Dr Matteo Santin
Dr Lucy Di Silvio	Mr Brian Knott	Prof Neil Rushton

Monday 10th May, 2010 – 13 attendees

Present:

Prof Serena Best	Mr Brian Kent	Mr Brian Knott
Mrs Sue Dunkerton	Dr Minoo Esat	Dr Jie Huang
Dr Matteo Santin	Dr Lucy Di Silvio	Dr Julian Jones
Prof Neil Rushton	Prof Liz Tanner	Dr Irene Turner
Prof Pankaj Vadgama		

The global network for the materials cycle



The Institute of Materials,
Minerals and Mining

Thursday 23rd September, 2010 – 13 attendees

Present:

Prof Serena Best

Dr Irene Turner

Dr Minoos Esat

Prof Pankaj Vadgama

Mr David Sharp

Mr Brian Kent

Prof Jonathan Knowles

Mr Roger Feneley

Dr David Farrar

Dr Geoffrey Andrews

Dr Rachel Williams

Prof Neil Rushton

Dr Jie Huang

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 universities and industry:

- Dr David Farrar, Smith & Nephew
- Dr Geoffrey Andrews, Ranier Technology
- Prof Roger Feneley, Independent (retired Urology surgeon)
- Prof Jonathan Knowles, UCL
- Dr Rachel Williams, University of Liverpool
- Dr Matthew O'Donnell, RepRegen Ltd
- Mr David Sharp, Ipswich Hospital.

The Division is active with other IoMMM Divisions or Committees, most notably:

- Smart Materials
- Nano-Materials
- Surface Engineering.

The Division aims to address this further in 2011.

4 Technical programme

a) Events run in previous 12 months

Event	Location	Date	Division role	Comments
Royal Society of Chemistry Biomaterials meeting	Durham	13 January 2010	Low level involvement	No report
IMechE Biomechanics and Use of Materials in Spinal Surgery	London	25 March 2010	Division member helped organize, with joint seat in both institutions	55 delegates, good collaboration between spinal and surgery. Insufficient time for discussion – suggested it could be held over multiple days in future.
UKSB	Glasgow	1-2 July 2010	Strong engagement of Division members	Successful meeting – around 100 attendees. Postgraduate presentations and poster of a very high standard.
ESB	Tampere, Finland	11-15 September 2010	Strong engagement of Division members	Good, well-organised meeting – 800 delegates. The focus on materials as opposed to tissue engineering was welcomed.
Clinicians Meeting – Let's Face It – A Translational Approach	London	24 November 2010	BMAD Division organised	Meeting attracted 50 delegates (despite clash with students protest) and stimulated lively debate. Successful networking between clinicians and materials scientists
Innovate 2010	London	13 October 2010	Attended	Sessions on stratified medicines and dragons den for biomedical companies.
IMechE – Engineering in Medicine: The Changing Role of Engineers in Orthopaedics	London	14 December 2010	Attended	Very good summary of non-invasive fracture repair techniques, active implants, joint modelling and market failures. Good mixture of materials science and other engineering disciplines.

b) Events planned for next 12-24 months

Event	Location	Date	Division role
IoMMM / IMechE events	various	various	Co-sponsored by Division
UKSB 2011	University of Greenwich	30 June/1 July 2011	Co-sponsored by Division
ESB	Dublin	tbc	Division members involved in organisation
Clinicians meeting with IMechE leading	London	tbc	Division developed and now running collaboratively with IMechE
Frontiers in Polymer Science	Madeira	tbc	Division members helping with programme
IMechE – Incontinence the Engineering Challenge VIII	London	7-8 December 2011	Division members help organize and co-sponsor
Congress 2012	London	June 2012	Division is supporting session on sport and medicine
Clinicians meeting	London	tbc	Division to organise, two potential themes: eye surgery and urology

5 Foresight / Innovation and Growth

The HealthTech and Medicines started development of a response to the BIS/DoH Life Sciences Review.

The HealthTech and Medicines KTN with the Royal Academy of Engineering developed a paper on the need for engineering and materials in Regenerative Medicine.

Division Members were active in both of the above.

The Division note the Royal Society of Chemistry report, focusing on medical and healthcare.

6 Professional membership developments

Division members have been successfully put forward for Fellowship status.

7 National and international linkages with other Societies /Institutes

The Division is strongly connected to IMechE which is the most active other Professional Institution in complementary space to BMAD, and two other key Societies where there is mutual membership are the UK Society for Biomaterials (UKSB) and the European Society for Biomaterials (ESB). The Division also continues to work closely with the HealthTech and Medicines KTN.

Other Committees which the Division engages with include:

- Association of Institutions concerned with Medical Engineering (AIME)
- Royal Society of Chemistry (RSC)
- Institute of Physics and Engineering in Medicine (IPEM)
- Tissue and Cell Engineering Society (TCES)
- Royal Academy of Engineering UK Focus for Biomedical Engineering.

The Co-sponsored IMechE event on incontinence has reached such prominence that the coordinators are now invited to the main Chicago meeting.

8 Government interfaces

Interface with the Technology Strategy Board is via the HealthTech and Medicines KTN, and many members are engaged on EPSRC Committees.

9 Publications

The Division has attempted to update the Website, with new systems in place to enter information but this still proves a challenge for the Division which is mostly made up of full time employees. Materials World has featured many biomedical features, many of which have generated from the Division.

10 Awards/prize

James Kirkpatrick was awarded the Chapman Medal.

The process for awarding the medal has been changed at Division level. From now on the January meeting will be held at the end of the month, allowing all nominations to be received in the same format, with the recommendation result confirmed at this meeting.

11 Other matters

Prof Serena Best was nominated and voted to remain as Chair for a further term.

Mrs Sue Dunkerton was nominated and voted to remain as Secretary.