



The Institute of Materials, Minerals & Mining

## **BIOMEDICAL APPLICATIONS DIVISION ANNUAL REPORT FOR 2017**

### 1. Board membership

1. Chairman Prof Andrew Lewis, Biocompatibles UK plc
2. Secretary Dr Gabriela Juarez Martinez, KTN Limited
3. Mr Brian Kent, Independent
4. Dr David Farrar, Xiros Limited
5. Dr Geoffrey Andrews, CEO, Ranier Technology
6. Professor John Nicholson, Bluefield Centre for Biomaterials Ltd
7. Prof Jonathan Knowles, UCL
8. Dr Jie Huang, UCL
9. Dr Julian Braybrook, LGC
10. Dr Julian Jones, Imperial College
11. Prof Lucy Di Silvio, Kings College London
12. Prof Matteo Santin, University of Brighton
13. Dr Minoo Esat, Independent Consultant
14. Dr Mura McCafferty, Ulster University
15. Prof Neil Rushton, Cambridge
16. Prof Pankaj Vagdama, Director, Biomedical Materials IRC, Queen Mary University of London
17. Prof Paul Hatton, University of Sheffield
18. Prof Rachel Williams, University of Liverpool
19. Prof Serena M Best, University of Cambridge
20. Mrs Sue Dunkerton, KTN Limited
21. Prof William Bonfield, Cambridge

### IOM3 Staff

Geoff Hale, IOM3

### 2. Board meetings

**10 January 2017, 297 Euston Road, London NW1 3AQ**

Attendees (11)

Andrew Lewis

Gabriela Juarez Matinez

Lucy di Silvio

Geoffrey Andrews

Jie Huang

Julian Jones

John Nicholson

Brian Kent

Pankaj Vagdama

Rachel Williams  
Geoff Hale

**15 May 2017, 297 Euston Road, London NW1 3AQ**

Attendees (6)  
Andrew Lewis  
Gabriela Juarez Martinez  
Lucy di Silvio  
Julian Knowles  
Julian Braybrook  
Geoffrey Andrews

**3 November 2017, 297 Euston Road, London NW1 3AQ**

Attendees (8)  
Andrew Lewis  
Gabriela Juarez Martinez  
David Farrar  
Julian Knowles  
Neil Rushton  
Matteo Santin  
Rachel Williams  
Pankaj Vagdama

3. Activities during 2017

3.1. Technical Programme

**Past Meetings**

RSC – Biomaterials Chemistry Special Interest Group Annual Meeting. University of Ulster, Belfast, 11-12 January 2017. IOM3 co-sponsored this meeting.

UKSB Annual Conference 2017, Loughborough University 20 - 21 June 2017. The IOM3 through the Biomaterials division co-sponsored/co-badged this meeting.

**Future Meetings**

Collagen Workshop is currently being organised by Serena Best and it is likely to take place at IOM3 facilities in London. Exact date still needs to be confirmed, but has been suggested between the 5th March and 5th April 2019.

The Andrew Lewis is in discussions with Prof. James Busfield to support the IRC 2019 meeting that will take place at the IOM3. The support require includes helping to find speakers for an “Advanced Materials in Healthcare” parallel session.

3.2. Web-site developments

During 2017 our board change composition slightly and this has been reflected on the microsite.

3.3. Engagement with technical community and/or local societies

The Committee is currently putting together an interactive PowerPoint presentation Diane Ashton from the School Affiliated Scheme.

The Committee supported the creation of the Report on Biomaterials Research Translation in Europe. The committee led by Matteo Santin is looking at maximize the reach of this report by publishing a

link in the IOM3 Biomaterials division website as well as promoting it through KTN relevant communities.

[http://www.esbiomaterials.eu/uploads/web/documents/ESB001\\_report\\_AW\\_c.pdf](http://www.esbiomaterials.eu/uploads/web/documents/ESB001_report_AW_c.pdf)

#### 3.4. Contributions to IoM3 house journals

No contribution to Materials World were made this year but there is a commitment for 2018.

#### 3.5. Acknowledgments

Geoff Hale retired from the committee in January 2017. The BMAD committee acknowledges and thanks him for his support and contributions.

In 2017 the committee recommended Professor Mohan Edirisinghe FREng, as a nominee for the Chapman Medal for his contributions to the biomaterials field.

#### 3.6 Other

##### 3.5.1. Foresight/ Innovation and Growth

Sue Dunkerton remains an active member of the EPSRC Healthcare Technologies SAT and will continue to provide a conduit for BMAD feedback on policy for the RC. Rachel Williams has been appointed to the SAT with effect from April 2015 for 4 years.

Sue Dunkerton and Gabriela Juarez Martinez continue to provide the link to the KTN activities.

##### 3.5.2. Strategy and Objectives for 2017 and Beyond

#### Opportunities and Constrains

There will be a continued interest in focusing the BMAD on outreach in the coming years, where we hope to continue to provide support regarding school visits, teacher conferences, presentations and on-line educational content.

#### Specific targets for 2018

Membership of the committee was reduced by writing to specific members that had not attended any meetings for the past 3 years. Several members also retired from the committee. As a result, committee membership has been depleted more than anticipated and we will look to actively recruit new members during 2018 to bring in new ideas and provide sufficient membership to provide a quorum for each meeting.

We would also like to use the recent report commissioned by ESB to communicate to various bodies such as Government/KTN/Innovate UK/Research Council offices the role of biomaterials in the UK and to help support lobbying for research funding in the field.

#### Outline plans for the 4 years beyond 2017

Continue to review related societies and groups and ensuring we are connected to these and their activities in the field so that we can most broadly represent our discipline. Initial approaches made to the RSC Biomaterials group and the UK Society for Biomaterials have been successful with jointly badged meetings. A joint meeting with the Rubber in Engineering group is also planned for 2018 and also as part of the ITPB an initiative to run a Materials Protecting People one-day meeting in November 2018.

Appendix: Technical Programme as of December 2017

<b>Date</b>	<b>Status (Held /Progressing /Planned)</b>	<b>Title</b>	<b>Location</b>	<b>Organising Division(s) /Committee(s) /Collaborators</b>	<b>Financial Underwriter (IOM3/ Local/ Other)</b>	<b>100% Target No's</b>	<b>Actual No's</b>
January 2017	Held	RSC – Biomaterials Chemistry Special Interest Group Annual Meeting.	Belfast	BMADiv	Co-badged	100%	>
June 2017	Held	UKSB Annual Conference 2017	Loughborough	BMADiv	Co-badged	80	120
March – April 2017	Planned	Collagen Workshop	IOM3, London	BMADiv	IOM3	60	
23 <sup>rd</sup> March 2018	Planned	Biomedical Applications of Elastomers	IOM3, London	BMADiv and RiEG	IOM3	60	
29 <sup>th</sup> Nov 2018	Planned	Materials Protecting People	IOM3, London	ITPB	IOM3	60	
2019	Planned	Advanced Materials in Healthcare parallel session as part of the IRC, 2019 Meeting.	IOM3, London	BMADiv And RiEG			