

FUNCTIONAL MATERIALS DIVISION ANNUAL REPORT FOR 2015

1. Board membership

The board membership for the Division has been decreased due to disbanding two of the division's committees (Functional Materials Singapore and Functional Materials Training). To counter this independent board members are being recruited to aid the running of the division. The board membership currently stands at 4.

Professor Robert Dorey (FMD Chair)

Dr Martin Kemp: Nanomaterials and Nanotechnology Committee Chair

Professor Markys Cain: Smart materials and Systems Committee Chair

Dr Joe Briscoe

The Nano Committee (formerly the Nanomaterials and Nanotechnology Committee Chairman, Dr Martin Kemp (Xcience Ltd), Prof Pankaj Vadgama (QMUL), Dr Martin Castell (Oxford University); Prof Beverley Inkson (University of Sheffield); Dr Alex Cuenat (NPL) and James Cookson (Johnson Matthey Research) and Secretary, Stuart Preston (IOM3).

SMASC: Markys Cain (Electrosiences Ltd) Chairman, Tony Anson (Brunel University), Steve Morris (KTN), Richard Bonser (Brunel University), John Webster (Independent), Veronika Kapsali (Northumbria University), and MNT Textiles, Pankaj Vadgama (QMUL), Alan Dalton (University of Surrey), Chris Bowen (Bath University), Sajad Haq (BAE Systems)

2. Board meetings

The board of the Functional Materials Division do not meet physically but communication takes place via skype, phone and email, as well as conversations between individual board members. Due to the small size of the group, on-line meetings work effectively. The chair, R Dorey, attends committee meetings of the member boards where possible.

Committee meetings are held in person and via skype. Meetings typically see 1/2 to 2/3 of committee members attend.

3. Activities during 2015

3.1. Technical programme

A mix of small and large events have been organised to engage with the community

3.2. Web-site developments

New website contents updated prior to migration to institute's new platform.

3.3. Engagement with technical community and/or local societies,

eg newsletters, welcome letters

- **Nano Committee:** 'Café Nano' along the lines of 'Café Scientifique' events at which the benefits of nanotechnology could be discussed. 1 event held at IoM3 in November
- **Nano Committee:** Supported the HiPerNano 2015 event held in IoM3 in November and supported by the KTN

- **Nano Committee:** Contribution to an article to Materials World October 2015 edition, entitled 'Graphene – A Perspective'

3.4. Contributions to IoM3 house journals

3.5. Other,

- Divisional brochure has been created.

4. Strategy and Objectives for 2016 and Beyond

4.1. Opportunities and constraints

4.2. Specific targets for 2016

- Hold at least 2 Café Nano events in 2016
- Hold smart actuation event.

4.3. Specific targets for the 3 years beyond 2016

- Publish 1 article/year in engineering trade press to highlight use and applications of functional materials.
- Host one 100 person type event per year
- Produce 1 Youtube style training video per year.

5. Other matters

Appendix: Technical Programme as of December 2015

Date (YY/YY/MM)	Status (Held /Progressing /Planned)	Title	Location	Organising Division(s) /Committee(s) /Collaborators	Financial Underwriter (IoM3/ Local/ Other)	100% Target No's	Actual No's
26/11/15	Held	Café Nano - Graphene Future, Emerging Technology	IoM3 Mine	Nano Committee		60	30
2/11/15 – 3/11/15	Held	HiPerNano 2015	IoM3 HQ, London	Nano Committee	KTN		tbc
24/02/16	Planned	Café Nano - Lithium ion batteries	IoM3 Mine	Nano Committee		60	
2016	Planned	Smart Actuation 2016:	TBD	SMASC	IoM3	100	