

Minutes of the School of Engineering and Materials Science (SEMS) Industrial Advisory Board (IAB) – Materials Division

Date: 29th November 2016

Location: G27.

Start: 1pm

1a. Attendance

Internal (SEMS):

Prof. James Busfield (JB), Dr. Emiliano Bilotti (EB), Dr. Remzi Becer (RB), Dr. Russell Bionions, Dr. Steffi Krause (SK), Prof. Magda Titirici (MT).

External members:

Last Name	First Name	Acronym	Company	Job title
Bennett	Martyn	MB	ARTIS	Chief Scientist
McElroy	Liam	LM	Advanced Healthcare Ltd	Research & Technology Manager
Small	Carolyn	CaS	Arconic	Process & Product Development Manager
Stevens	Chris	ChS	NGF Europe	Technical Manager
Joe	Hallet	JH	Fenner Precision	Senior Development
Martyn	Cain	MC	Electrosiences Ltd.	Director

1b. Apologies and substitutions

Tony Kinsella (Lucideon); Matthew Thornton (Haydale Composite Solutions), Roly Whear (Jaguar & Land Rover) & Alan Wood (THE POLYMER SOCIETY).

Paolo Balocchi (Bombardier Aerospace) has resigned from the board since the last meeting.

2. Review the Role of the IAB

JB reminded the role of IAB. The role of the IAB remains unchanged.

3. Review and Approve the Minutes of the Previous Meeting from the 3rd March 2016

The minutes were approved.

Whilst going through the Minutes the following points were discussed:

- QMUL Model – JB said that SEMS and, particularly, the Materials division should have no problems in implementing the QMUL Model, as the modules in years 1 and 2 that are SCL based already deliver much of what is required. The employment of a new staff member to help implement the QMUL Model will facilitate the introduction.
- Recruitment of Materials students at QMUL – RB reported that number of materials students went slightly up this year, compared to previous year. Perhaps the recently investment in teaching labs helped attracting more students. The challenge to recruit Material students still remains. This is a UK wide issue. SEMS is going to interact with FabLab. FabLab promised a double decker bus, which is going to be equipped and help in outreach activities and hence recruitment.
- In the future it might be pursued to align engineering and materials more closely. Perhaps also by offering the option of Materials as a specialisation for engineering students.
- Several IAB external members have already engaged or planned to engage in the teaching of some Modules, to deliver guest lectures.
- There was an action point from last Minutes which was partially unattended. Julien Gautrot was supposed to circulate a list of key equipments materials student should be familiar with. RB will pick up from Julien and be responsible for this action point.

4. Update on new Programmes.

- The new join Programmes with NPU in Xian (China) are confirmed and going to start with academic year 2017-18.
- Chemical Engineering – The new Programme in Chemical Engineering has been perceived as a good opportunity for SEMS and QMUL. There are more applicants than places in the UK on Chem Eng. Besides, the graduates get higher salary with this degree. The general consensus was also about the overlaps between the materials degree and the Chem Eng programme. Feedback from the IAB has been asked for if it is common to place this programme in Eng department. The general agreement was it is the right place to for the programme to be in.

5. Update on new development

5a. New Staff Appointed

- Oliver Fenwick (Royal Society Fellow) has started as a Lecturer and will work on Organic Thermoelectrics (OTE). The activity around OTE at QMUL is growing a lot with 4 academic staff (Olivier Fenwick, Emiliano Bilotti, Bob Schroeder, Mark Baxendale) associated to it. The new Organic Thermoelectric Lab, part of the Materials Research Institute, has been established as a consequence.
- Three Materials Research Institute Academic Fellows have been appointed, including Ana Sobrido, whose research activity on energy materials is embedded within SEMS.
- Prof. Steve Dunn will be leaving QMUL by next year and his position will be replaced by two new lecturers.

5b. Refurbishment Update

Phase 1 is finished with the completion of the robotics lab. Undergraduate teaching lab including characterization suite has been completed in the last year. The first floor for the research laboratories have been completed and are up and running.

Next phase will be the refurbishment of the Aero Lab and the new Creative Hub (Including design and manufacture space for students in collaboration with EECS) is due to be completed by Sept 2017.

6. Annual Calendar of QMUL / SEMS event and potential interactions

The calendar is online and accessible. It has also been emailed to IAB members and printed.

7. Guidelines for collaboration costs

Guidelines have been circulated. JB underlined that the costs were still referring to previous years. New ones should be updated shortly.

8. Review the stream specific UG and TPG programmes

N.A.

9. Explore potential guest lecture opportunities for IAB members embedded in Modules

MB and MC are willing to get involved. LM will keep discussing with RB about potential contribution for next year.

10. Explore new potential collaboration opportunities

- More guest lectures.
- Summer placement-opportunities with a focus on shorter projects in collaboration with companies have been suggested. This is a good activity which we are already running but we need to grow our number of partners as this significantly increases the employability of students.
- Possibility to apply for Global Challenges Funds. Perhaps via charity arms of Companies represented in the IAB? Arconic for instance has got a Charity arm but it is mainly involved in initiatives for the local community.

11. Any other business

Needs to expand the list of IAB external members

12. Date of next meeting

Thursday 2nd March 2017.

Summary of Action plan

Action	Against...
RB to circulate a list of key equipments materials student should be familiar with	RB
Guest Lectures	All externals
Suggest topics for potential Doctoral Training Centres	All external
Circulate updated collabortation costs	JB
Needs to expand the list of IAB external members- Think about potential candidates to invite	All

Meeting Finished: 3pm

Minutes Recorded by: Dr. Emiliano Bilotti