

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

Date: 3<sup>rd</sup> March 2016

Location: SEMS meeting room.

Start: 2pm

### 1a. Attendance

Internal (SEMS):

Prof. James Busfield (JB), Dr. Emiliano Bilotti (EB), Dr. Julien Gautrot (JG), Dr. Russell Binions (RB), Dr. Andy Bushby (AB).

External members:

Last Name	First Name	Acronym	Company	Job title
Kinsella	Tony	TK	Lucideon Ltd	Chief Executive
Garcia	Pedro	PG	Biocompatibles UK Ltd	Technical Director
McElroy	Liam	LM	Advanced Healthcare Ltd	Research & Technology Manager
Small	Carolyn	CaS	Alcoa	Process & Product Development Manager
Stevens	Chris	ChS	NGF Europe	Technical Manager
Whear	Roly	RW	Jaguar & Land Rover	Principal Technical Specialist
Wood	Alan	AW	The Polymer Society	Chairman

### 1b. Apologies and substitutions

None.

### 2. Review the Role of the IAB

The role of the IAB remains unchanged.

### 3. Review and Approve the Minutes of the Previous Meeting from the 4<sup>th</sup> March 2015

Minutes approved.

### 4. Review the core UG and TPG programme specifications in each stream and the learning outcomes.

Only one topic briefly covered:

Restructuring of Programmes as a consequence of the new QMUL Model to be introduced. MAT4444 to become a credits bearing module? Other modules to be compressed or merged to keep the total number of credits (120) unchanged. Challenges/opportunity? Problem with accreditation?

J.B. to feedback after Senate meeting.

## 5. Review recent innovation in curriculum development

ChS praised the Programme Specs. All main topics are in.

### 5a. New Programme Plans

There is a nationwide problem in recruiting Materials students.

A strategy could be to have a General Engineering entry point for all the School, with Materials as a specialisations in later years. Importance of Core Materials modules to be delivered by enthusiastic lecturers, in order to attract General Engineers to select Materials as specialisation.

## 6. Explore new potential collaboration opportunities

The different mechanisms of collaboration have been quickly reviewed.

External members were given a calendar with typical milestones/times during the years when each specific interaction can be initiated (e.g. MEng group projects by the end of second term, etc.).

Also a summary price list of how much would cost for a company to directly fund different types of research at SEMS/QMUL (e.g. fully funded PhD, etc.) was circulated.

Action: External members to comment on the competitiveness of the prices.

A number of external members offered to give Guest Lectures/Case studies:

- CaS. interested but needs to ask what info she can share
- RW.: “use of rubber in industry”? Problem solving/project management approach
- ChS.: Rubber testing. Nanoindentation/adhesion? Speak to Ton or Ettore (MAT501).
- AW.: Set up a debate: “Composites Vs Aluminium). Possibly including this into the new MAT444 / QMUL Model? Or in the Composites Module of TP.
- PG. A series of Case studies. Including SixSigma training/Risk Assessment. Part of new MAT4444? JB to speak to Andy Lewis.

New facilities/training room are available. It would be suitable for industrial visit. Offer to host an industrial visit to be confirmed.

Action: JB to follow up other “offers” of guest lectures/Case studies from absentees.

MEng group project:

- CaS interested in MEng project. In the past the lack of a lab where to carry out metal sample preparation (e.g. polishing, HF etching, etc.) and the lack of supervision was a big problem. With the new teaching lab on the ground floor is feasible.
- Other projects to be sent to EB.

## 7. Any other business

- Two IAB meetings per year were considered to be sufficient for now. Maybe a separate additional meeting could be set up to discuss the Programme Changes which will be introduced as a consequence of QMUL Model.
- Action: Julien to circulate a plan/proposal of key equipments students should know how to use.

Action: External to feedback on the list/plan.

RW stressed that it is not only about running a test but understanding it and “problem solving”.

- Separating the IAB in two parts (one more general and common to all streams and a second more stream specific) worked well. Keep this structure.
- Coffee/tea/water offered during the 2<sup>nd</sup> part of the IAB meeting.

## 8. Date of next meeting

Thursday 3<sup>rd</sup> March 2016. Not 4<sup>th</sup> March 2016 as in Agenda.

## Summary of Action plan

Action	Against...
Feedback after the Senate meeting on the QMUL Model. Potentially setting up a special meeting to discuss about any Programmes change.	JB
Comment on the competitiveness of the <u>summary price list</u> to directly fund different types of research at SEMS/QMUL	All externals
Speak to Andy Lewis to discuss about guest lectures/case studies/industrial visits offered by Biocompatibles UK Ltd.	JB
Follow up other “offers” of guest lectures/Case studies from absentees.	JB
Circulate a plan/proposal of key equipments students should know how to use.	JG
Feedback on the list/plan of equipments which will be sent by JG.	All externals
Coffee/tea/water offered during the 2 <sup>nd</sup> part of the IAB meeting.	Crawford/EB

Meeting Finished: 4pm

Minutes Recorded by: Dr. Emiliano Bilotti