

Minutes of the Meeting of the Interdivisional Subcommittee on Materials Chemistry (ISMC)

Saturday, August 10th, 2013, Harbiye Military Museum, Istanbul, Turkey

1. **Present:** Richard Hartshorn (Division VIII), Richard Jones (Acting Secretary, Division IV), Brian Kergel (O, an Observer at the 2013 IUPAC General Assembly), Markku Leskelä (Division II), Christine Luscombe (Division IV), Chris Ober (Chairman, Division IV), Natalie Stingelin (Division IV), Sibulelo Vilakzi (O), Angela Wilson (Division I).
2. **Apologies:** S. Mathur apologized that he could not attend.
3. **Minutes of the Previous Meeting:** The minutes of the meeting held in Cologne on 7th & 8th September 2012 which had been circulated earlier were approved as a true record.
4. **Matters Arising:**
 - (i) **Symposia:** The Chairman (CO) reported that the organisers had rebuffed the suggestion that the ISMC hold a Materials Chemistry Symposium during the World Chemistry Congress in Istanbul on the basis of their having already covered such a requirement and that there were no further slots available. It was hoped that with two years yet to go there would be more time to achieve a favourable reception to the same suggestion for Korea in 2015 but planning should start immediately. CO also noted that a new coordinator was required for leading ISMC conference activities. This person would best come from the membership of Division II but until such time as there is a volunteer CO would undertake to secure a Korean contact through the organisers of the 2015 WCC.

Action : CO

CO appealed for materials chemistry topic suggestions for 2015 stressing that demographic diversity was essential. RJ recommended that each constituent division advanced topics of interest from within their remit (see also item 5).

Action: All

- (ii) **Materials Chemistry Education:** CO reported that a new coordinator was required for this area of ISMC activity. AW agreed to seek someone from Division I.

Action: AW

- (iii) **Terminology:** RJ is the coordinator. Good progress was reported on the Division IV project, 'Terminology of Nanoscience and Nanotechnology in Polymer Science'. The history of this project within ISMC was reviewed. It was already evident that many of the terms were relevant to Divisions I and II so their members were again urged to buy into the project, in which event the title could be altered accordingly.

Action: AW & ML

(iv) **Materials Chemistry Educational Website:** CO had prepared a project application for the development of the website based on the structure of the Division IV Polymer Education website and had requested that it be considered as a special application directed to the so-called project fund. Nevertheless, the interdivisional nature of the application marks it as a flagship of ISMC endeavour which calls for the support of all the constituent divisions.

The Polymer Education website uses tracking software which reveals that it is very well used so the same could be reasonably expected for a Materials Chemistry website.

ML offered some content for the website through links to academic teaching materials and so that members could assess what externally generated materials might be appropriate, CO said he is seeking a high level of sophistication that would be user-friendly within both higher education and high schools. Nevertheless, his mind is open to consideration of all relevant content. NS drew attention to the existence of a UK Centre for Materials Education based at Manchester, the address of which she would forward to CO. She also noted that there was another site at Cambridge that was more concerned with physics and engineering but not chemistry friendly.

Action: ML & NS

Notwithstanding all the efforts of CO it was recognised that the website development was being pursued on the cheap and that it requires sophistication. RGJ suggested that Claudio dos Santos, who had designed his departmental website, might be able to help in this respect and CO agreed to approach him.

Action: CO

5. Other Topics:

Noting that the flagship Materials Chemistry Education Website could be advanced as a 'tool for teachers' and should present itself as such, CO asked everyone to present their view of what more there is to ISMC and what might be.

RH reported that he had recently been increasingly involved in dealings between Division VIII and ISO concerning nomenclature for nanomaterials, which had led to him to suggest a joint working party. This had been accepted as a good approach while noting that ISO has to be quite cautious in its deliberation by virtue of the legal implications of its work driven by industrial property considerations. However, it was agreed that carbon nanotubes and metal clusters would be good focusses for a scope exercise from which it would be possible to judge if the joint approach works. Both sides have advanced three names for each topic. For the time being this is for information only but ISMC will be kept informed of progress by RH who believes that two-way communication in this area would be useful to all.

Action: RH

The 'nano' area was recognised as an excellent area for ISMC which presented many opportunities but RH urged that attention be given to other potential focal areas including the following:

techniques;
metrology;
toxicology;
hybrid materials,
electronic materials;
surfaces and interfaces;

There are other health and environmental related concerns of modern materials and all the above topics present opportunities for widening the interest within IUPAC of the activities of ISMC. It was proposed to organise workshops on the various topics at the next General Assembly

RH suggested that a search for ‘materials’ conducted on the IUPAC website could be very fruitful.

Action: All

6. **Venue of the 2014 meeting:** During the ACS meeting in San Francisco on a date to be announced.

RJ – 26th August 2013