

Minutes of the June 23, 2011 EDTF – NME Subgroup meeting

Room 210, 40 Sheppard Ave. West

Participating: Brian Haydon, Peter DeVita (t/c), Gerry Margaritis, Jordan Max (staff advisor)

Regrets: Roger Jones, Corneliu Chisu, Alana Lavoie, Marios Ioannidis, John Yeow, Dave Adams, Yuri Kuzyk, Laura Deakin

The meeting started at 4:10pm.

1. Review of agenda

In reviewing the draft agenda, the Chair noted that only the draft section on Bioprocessing regulations in the pharmaceutical industry and a revised Hazards Analysis section had been submitted in time for the meeting. However, in the absence of both Yuri and Laura, it was discussion on those sections was postponed. Accordingly, Item 4 of the agenda was adjusted.

NOTE: As quorum was not reached, no motions could be approved for any items under discussion.

2. Continued discussion of NME Facility licensing/certification

Discussion was resumed from the last meeting regarding Peter's proposal under the Compliance section about whether PEO should license facilities fabricating nanomaterials. The current Professional Engineers Act does not give such powers to PEO, and an Act change would be required. A need for research into what the roles of different parties in the current licensing of laboratories and fabrication facilities was identified, for example, Health Canada, Ministry of Labour (Pre-start Health and Safety reviews by engineers), Ministry of Environment, etc.

3. Review of May 26, 2011 minutes and follow up on action items

The draft minutes were reviewed. With respect to item 5b (Hazards Analysis), the different nano and bulk properties of chemicals, a concern was raised about the phrase "we could call for changes to that effect" and whether PEO had jurisdiction to do so. It was agreed that a post note should be added to the minutes that PEO should identify this as a regulatory gap in current legislation warranting further consideration by the proper authorities.

With respect to follow up items from the minutes, the following action items were identified and requested:

- **Gerry** to contact Corneliu regarding his contribution of the sections on foreign applicants and the use of limited licences
- **Jordan** to contact Haridoss Sarma to invite him to attend the next meeting to discuss his issue
- **Jordan** to draft a response to the CEQB chair thanking him for his response and offering Gerry Margaritis and Brian Haydon as expert nominees for the forthcoming CEQB National Nanotechnology Examination Syllabus, inquiring about frequency of meetings and time commitment required, and to send the draft letter to **Gerry** for review

- **Jordan** to get the exact number of University of Waterloo Nanotechnology Engineering graduates from Roydon Fraser or Marios Ioannidis
- **Jordan** to get the official curriculum from the Waterloo program and circulate it to the rest of the subgroup
- **Jordan** to send the UofW website link to Gerry
- **Gerry** to confirm the continued participation of Dave Adams, Corneliu Chisu, Marios Ioannidis in their contributions to the Phase 2 report
- **Peter** to revise the Compliance/Enforcement section as per discussions in the previous and current meetings
- **Gerry and Yuri** to revise the Experience section to address a preferred schedule for meeting NME experience criteria over a typical four-year timeframe for an intern or EIT
- **Gerry** to contact Corneliu to address his sections on Non-engineering backgrounds and Limited Licences and whether breadth vs. depth should be specified in those licences, and whether the acceptable academic background should be more restrictive or expansive than the current “Honours science” program approved by Council
- **Jordan** to gather information on how PEO administers the Limited Licence and report back to the subgroup
- **Jordan** to post the CEQB correspondence regarding the National Nanotechnology Examination Syllabus

4. Next meeting(s) date(s) – July 21, September 8

The next meeting dates were confirmed, and Jordan is to send out the consolidated draft of materials received to date by July 14th to allow time for the subgroup to review the document and discuss at the July 21st meeting.

5. Adjournment and dinner (with CIE subgroup)

The meeting was formally adjourned at 6:00pm, and discussion continued on future emerging disciplines as requested by Engineers Canada. The following areas were identified;

- Renewable energy engineering
- Synthetic biological engineering
- Sustainability engineering
- Infostructure (not a typo) engineering – dealing with the secure organization, retention, disposal, access and searching of data at rest and in use.

Brian also reported the recent publication of several ISO standards, including one on occupational health and safety (12855). Action Item: **Jordan** to send the ISO publication list to the subgroup members.