

DIVISION VII
Chemistry and Human Health

Subcommittee on Toxicology and Risk Assessment

Lafayette Room, Hilton Hotel
Atlanta, Georgia, USA
9:00 am - 6.00 pm, Saturday, March 25, 2006

Present:

John Duffus (chair), Doug Templeton, Rita Cornelis (acting secretary)

Apologies:

Monica Nordberg

1. Approval of the minutes of the last meeting (Rottenburg, Tübingen, Germany)

The minutes of the last meeting were approved.

2. Reports on progress of projects

2.1. 2001-066-1-700 - Global use of the C-NPU concept system for properties in toxicology

This project has been completed with the report, "Properties and Units in the Clinical Laboratory Sciences: Part XX. Properties and Units in Clinical and Environmental Human Toxicology. Technical Report) (IFCC-IUPAC 2006)", which has been revised to satisfy PAC requirements and is under review on the PAC website.

2.2. 2003-001-2-700 - Explanatory dictionary of concepts in toxicokinetics

Elsevier Publishers have expressed to Monica Nordberg an interest in publishing the document as a book. It is thought by the working group that it should have twice as many entries to be eligible for publication as a book of a reasonable length. Monica is intending to submit a second project, "Explanatory Dictionary, part 2", to cover about 20 more terms.

Two titles were suggested for such a book:

Concepts in toxicology

Concepts in toxicology and risk assessment

This will be discussed further by the working group.

Publication of the book on the web may be the way of the future and this should be discussed with the publisher.

2.3. 1999-047-1-700 - Immunochemistry of metal sensitization

Doug Templeton has received 5 significant reviews of his latest manuscript. Following comments from John, he has detailed the speciation of metals whenever needed. PAC has accepted the revised document.

It is worth mentioning that already 2 papers from the project have been published. Doug Templeton, the project leader, will think about what further activities within the scope of this project may be carried out with the remaining part of the budget.

- 2.4. **2004-045-1-711 - Training of school children on pesticides and health**
The project is moving forward. The working group will be meeting in Prague in April.

- 2.5 **2003-028-1-700 - Glossary for chemists of terms used in toxicology – revision and updating**
Version 11 of the revised manuscript was discussed and edited. Every term was considered and possible changes assessed. This took up most of the time allotted to the meeting of the Subcommittee. Consensus was reached on the terms discussed and John Duffus will revise the text accordingly. The resultant draft, version 12, will be submitted to Pure and Applied Chemistry for publication as an IUPAC Recommendation, superseding the existing glossary of 1993.

The existing glossary, combined with the ‘Glossary of Terms Used in Toxicokinetics’ has been incorporated with acknowledgment to IUPAC in the U.S. National Library of Medicine TOXNET portal to the toxicology literature. This portal incorporates toxicology learning materials called ToxTutor which are currently being updated as ToxLearn. ToxLearn is a series of presentations designed for self study and these are being hyperlinked to the IUPAC glossary on the TOXNET site.

Concern was expressed about the way the IUPAC project to produce a “Glossary of terms relating to pesticides” had made use of terms from the “Glossary of terms used in toxicology” by changing ‘substance’ to ‘pesticide’ in the definitions quoted, thereby creating unnecessary new definitions which were too specific to have real validity.

3. Possible new projects

- 3.1. Explanatory dictionary - part 2 (see under 2.2)
- 3.2. Howard Worth is planning to submit a project with the aim of producing presentations of educational material in clinical chemistry to supplement those already available on the IUPAC website with the title “Essential Toxicology”.
- 3.3. Rick Becker, Senior Director - Public Health Team, American Chemistry Council (ACC), would be interested in supporting a Workshop on “Human Biomonitoring”. Such a Workshop could lead to a set of papers which could be published in a special edition of PAC or as a book. This project would be co-sponsored by the industry and IUPAC. We should consider who might be a suitable leader for such a workshop.
- 3.4. It is recognized that continuous updating of the glossary of terms used in toxicology, and other glossaries, is necessary and this must be kept under review.

4. **Any other competent business**

It was noted that the next IUPAC General Assembly will be held in Turin in 2007 and in Glasgow in 2009.