

**DIVISION VII
Chemistry and Human health**

**Minutes Division Committee Meeting
held at the IUPAC GA in Brisbane, 29 June – 4 July 2001**

Location: Brisbane Convention Centre

Participants:

Dr. Anders Kallner ((President, Division of Chemistry and Human Health)) anders.kallner@ks.se
Prof. Robin Ganellin (President, Medicinal Chemistry Section) c.r.ganellin@ucl.ac.uk
Dr. Thomas Perun (Vice President, Medicinal Chemistry Section) Tjperun@aol.com
Dr. Rita Cornelis (President, Clinical Chemistry Section) rita.cornelis@rug.ac.be

Apologies from Dr. B. Heinzow, Secretary, who could not attend the GA due to major commitments at work.

1.-Approval of the Agenda and of the Minutes of the previous Division Meeting, London 28 April 2001

The agenda was accepted and the Minutes of the London Meeting were approved.

3.-Division VII Presidents Report

The President commented on the dissolution of the Division, now organized in 2 Sections till the end of 2001: Medicinal Chemistry (MC) and Clinical Chemistry (CC) (see Anders Kallner's Report to Council, Brisbane 2001/07/07,08). He discussed the different activities of the 2 sections, who worked along separate lines.

The MC Section expressed itself through their 3 Commissions (Nomenclature and Terminology, Training and Development, New Technologies and Special Topics).

The CC Section was active through its Commission on Nomenclature, Properties and Units on the one hand, and the Commission on Toxicology on the other hand.

The work of these separate units resulted in 7 publications, and 2 monographs.

The Division participated in an ICSU initiated project on Gene Modified Food project, and was also active in a meeting of consultants to the Committee on Biological Standards within WHO.

4. -Report Medicinal Chemistry Section - VII.M

A detailed account can be read in the Minutes of the Medicinal Chemistry Section held in Brisbane July, 2001.

The summary of the milestones planned by the different MC Commissions read as follows:

4.1. Commission on Nomenclature and Terminology - CNT, VII.M.1

Following working parties are set up:

4.1.1. Legal implications of patenting virtual libraries.

P. Erhardt will finalize his statement and circulate it to the DC before the year ends.

4.1.2. Glossary of drug metabolism terms.

P. Ehrhardt is in charge of this project that is in full development.

4.1.3. Compendium of glossaries.

R. Ganellin will continue this ongoing project

4.1.4. Glossary of terms of pharmaceutical technology

E. Breuer has put together a first draft. The group will provide feedback to R. Ganellin.

4.1.5. IUPAC Glossary on Pharmaceutical Process Chemistry

M. Chorghade has written a first draft, and plans to have a group meeting in November 2001.

4.1.6. IUPAC Glossary of Combinatorial Terms

Derek Maclean is to make a project submission for updating the existing Glossary of Combinatorial Chemistry Terms.

4.2. Commission on Training and Development – CTD, VII.M.2

4.2.1. Research and Training in Medicinal Chemistry in South America and Middle America

A. Monge is actively following this project (Havana April 2001, Brazil, August 2001).

4.2.2. Similar efforts are planned for India (M. Chorghade) and Egypt (O. Kebir).

4.2.3. The project Medicinal Chemistry in the Development of Societies and Biodiversities of Natural Compounds will be resubmitted by A. Monge to the Interdivisional Commission on Biotechnology

4.2.4. Research and Development in Medicinal Chemistry in Developing Countries (II) – Patents and contracts: the project will be submitted through IUPAC.

4.3. Commission on New Technologies and Special Topics – C-NTST, VII.M.3

4.3.1. Pharmaceutically Acceptable Salts of Drug Substances (chair: Prof. Wermuth)

It will be published soon by Wiley.

4.3.2. Natural and Unnatural Substances Related to Human Health (700/2/98).

Prof. Topliss (chairman) said the final article for publication will be ready at the end of the year 2001.

4.3.3. Human Drug Metabolism Database (P. Erhardt). The project is now funded by ICSU/ IUPHAR. It will be a web-base database available to everyone. The model will be initiated in 2002.

4.3.4. Natural Products with Medicinal and Nutritional Value ; "Nutraceuticals

The project will be resubmitted by M. Chorghade.

4.3.5. Probes for therapeutic and diagnostic effectiveness.

The topic will be changed to "Biomarkers for therapeutic and diagnostic effectiveness.

4.3.6. Evolution of drug discovery

J. Fisher is in charge. There is a need for a budget adjustment before re-submission.

4.3.6. Predicting drug shelf-life

The project is kept on a hold and will be revisited later at an appropriate time (M. Chorghade)

4.3.7. Bioinformatics

A project concerning Bioinformatics will be initiated by M. Liebman

5-Report Clinical Chemistry Section– VII.C

RC, President of the Section on Clinical Chemistry, endorses the minutes of the meetings held in Brisbane by the 2 Commissions.

5.1. Commission on Nomenclature, Properties and Units - C-NPU, VII.C.1

A detailed account can be read in the Minutes of Commission VII.C.1 held in Brisbane June 30 till July 4, 2001

Following projects are listed:

Global use of the C-NPU concept in Clinical Laboratory Sciences, the main project of the Commission.

The following projects will be added to the database:

5.1.1. NPU in transfusion medicine and tissue typing

5.1.2. NPU for urinary calculi

5.1.3. NPU for dynamic function tests

5.1.5. Properties and units in flow cytometry

5.1.6. Properties and units for function examination

5.1.7. NPU in Medicinal Molecular Biology

5.1.8. C-NPU concepts and traceability of measurements

5.1.9. Global use of the C-NPU concept system for properties in toxicology (cooperation with VII.C.2)

5.2. Commission on Toxicology – ComTox, VII.C.2

A detailed account can be read in the Minutes of Commission VII.C.2 held in Brisbane June 30 till July 3, 2001

Besides the list of projects that have been or are on the brink of publication, following projects have been or will be resubmitted according to the new rules:

- 5.2.1. Fundamental toxicology for chemists (John Duffus). After the success of the RSC book "Toxicology for Chemists" (Duffus and Worth), there was an evident need for something more elementary. This new project will meet this target.
- 5.2.2. Immunochemistry of sensitisation to metals. This project has been approved and is under preparation. (D. Templeton is the Project Director)
- 5.2.3. Glossary of toxicokinetics (M. Nordberg) This project has been submitted and is now under review.

New projects to be submitted:

Determination of the concentration component of air exposures to volatile compounds. E. Olsen will submit this project. It will include both modelling and measurements.

Data base on chemical disasters. D. Templeton will ask Dr. Nagymajtenyi for clarification about the status of this project.

Neurochemically active metals: Manganese. E. Olsen will submit a project with Dr. Roels and Dr. Rappaport.

6. Structure of the Division, Nomination and forthcoming Election

According to the strategic plan all commissions will be dissolved at the end of 2001. The tasks will be taken up by the new Division VII. In the mean time the 10 members of the Division Committee have been appointed.

7.-New IUPAC-Project procedure and new projects

At Brisbane the new project system has been discussed at an interdivisional meeting.

The Division can expect allocation for 2002-2003 of about 70.000 USD. The priorities will be set by the Division Committee. 75% should be used for projects and 25% may be spent for operational expenses. The funds, once awarded to a project, are committed for the lifetime of the project, even if it extends beyond, e.g, the proposed 2 years.

In a recent communication the Treasurer (Dr. Buxtorf) has given the following ground rules:

The Division budgets are based on past expenses of the Division (98-99).

Each division will receive an additional 10.000 USD.

GA funds will only be allocated to the Division Committees.

8.-Cooperation within IUPAC

Prof. A. Monge Vega has been named as the representative of Div VII to the Organic Chemistry interdivisional project on Biodiversity.

Possible co-operation might be established in the field of Post Genomic Chemistry, and Endocrine Active Substances.

The Solubility Data project was considered useful, but Div. VII cannot offer any input.

For the project Electrical properties of polymers no co-operation can be offered.

9.-Cooperation with other organisations

IFCC : The links between IFCC and IUPAC Section on Clinical Chemistry will be kept by continuing with active collaboration, although formal links have been deleted.

ISO. Dr. Kallner is represented on ISO 212: in vitro diagnostics

ICSU and IUPHAR Co-operation is related to the Drug Metabolism Database

WHO: The location of the compendium remains in Sweden till the end of 2001. WHO has been approached to assume responsibility for the updating and maintenance of the data base as from 2002, but the outcome is not certain yet.

Prepared by Dr. Rita Cornelis