

**DIVISION VII**  
**Chemistry and Human Health**

**Minutes Division Committee Meeting**

Boston, June 11-13<sup>th</sup> - 2004  
Wellesley College Club

**beginning at 9:30 am, Saturday, June 12<sup>th</sup>, 2004**

Distributed to

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**Observers:**

Prof. Bryan R. Henry; [chmhenry@uoguelph.ca](mailto:chmhenry@uoguelph.ca)

**1. Opening, Welcome**

Paul Erhardt, Division President, chaired the meeting and welcomed IUPAC Vice-President, Prof. Bryan Henry, Prof. Totani, Natl. Representative from Japan, and the Division Committee members and thanked Prof. Bryan Henry (IUPAC VP/President Elect) for visiting the meeting and showing interest in the work of the Division and Mukund Chorghade (Div. VII Comm.) who served as the meeting's host at prestigious Wellesley College.

**2. Approval of the Agenda and Minutes from the previous Division Committee Meeting, Ottawa, August 9<sup>th</sup>, 2003**

The agenda was accepted and the Minutes from the London DC Meeting (XII-2003) were approved.

Recent draft Minutes from the Subcommittee for Medicinal Chemistry and Drug Development

(SCMCDD), meeting at Anaheim, CA, March 27-2004, were circulated.

### **3. Division VII Presidents Report**

Pedro Soares de Araujo had to abstain from attending since the Brazilian adhering Organization did not forward the subscription fees in due course and travel subsistence had to be withdrawn by IUPAC. PE explained the unfortunate circumstances and the DC looks forward to his attendance in the future when the financial matters will hopefully be resolved. It was made clear that IUPAC policy to withdraw funds for travel support does not apply to projects. The funding of projects and hence continuation of the individual with projects will not be affected!

### **4. IUPAC Vice President Prof. Bryan Henry, Perspectives of IUPAC**

Prof. Henry stated that Division VII had mastered the transition to the new system and was interested to learn how the DC worked and how new projects were initiated and guided and asked for comments especially on the new project system, which he has in focus for his critical assessment. In the following discussion it was outlined that maintaining the structure of the Subcommittees has proven to be useful and necessary for continuation of the numerous activities and that the DC has mentored in new projects and supported the project leaders by liaison contacts from the DC or the SCs.

Another issue conveyed to the Vice President related to copyright issues and revenues. Since some projects have a potential for commercial utilization it is important to solve problems of copyright, that might arise from commercialization. Seeking financial support from outside, was debated and it was suggested that revenues could be used for an extra funding line to mentor new members into the SCs and projects.

### **5. - Report from Subcommittees**

**5.1 Subcommittee on Medicinal Chemistry and Drug Development (SCMCDD), (RG)**  
Paul Erhardt referred to the draft Minutes of last subcommittee meeting in Anaheim (27<sup>th</sup> March 2004)

Education on issues of patenting for scientists in general, as well as for medicinal chemists, was identified as a suitable new project. Per Lindberg and Paul Erhardt will submit a proposal, starting with a discussion group to identify major issues and to consider how to best address the variety of interdisciplinary scientists and decision makers engaged in this area.

#### **5.2 Subcommittee on NPU (UF) Urban please comment**

AK gave a report of the recent activities. Close co-operation with IFCC continues as the search for financing the CNPU-database, to maintain and update the 20.000 terms. Prof. Forsum will work together with Clem. MacDonald the Regenstrief Institute Indianapolis during September 2004 during a sabbatical leave. The main topic will be "conceptual description and alignment of the LONIC and C-NPU databases. A position paper is anticipated based on the activity. New projects under consideration address concepts of properties and quantities and revision of the Silver Book, which is now 10 years old and needs an update in syntax and semantics. S. Anderson (DK) has been contacted for this project. Other topics are : flow cytometry; terminology in clinical physiology (ECG, EEG, lung function). New members for the SC will be suggested after the IFCC meeting in Tunis.

#### **5.3 Subcommittee on Toxicology and Risk Assessment (John Duffus)**

The SC had the last meeting in London (October). Co-operation with the TOXNET website and the "World Library on Toxicology" and "Tox-Net" (Phil Wexler) is continuing. The Tox-Tutor program shall be updated and include Ecotoxicology and Environmental toxicology. The updated glossary will be incorporated. In three years it is hoped that the new "Tox-Learn" portal website will be set up serving as an internet gateway for this and for other teaching programs. The level of education expected of users is a basic background in biology and chemistry Initially the website will not be aimed at lay-people and the general public. It

was suggested to include the topic of drug (xenobiotic) metabolism. JD attended the SOT Conference in Baltimore. Minutes from the Undergraduate Toxicology Teaching Forum held at the SOT 2004 Annual Meeting in Baltimore. Meeting minutes are posted on the Toxicology Teaching Project Website that can be accessed through <http://www.iup.edu/envh/>.

## 6. Review of Activities

### 6.1. Completed Projects

6.1.1 Natural and synthetic substances related to human health (John Topliss). The project evaluation has been very positive and the topic received good attention in the public media.

6.1.2 720/4/93 - [Exposure assessment and decision rules in compliance testing for implementation of exposure limits](#) (JMC)

6.1.3 2001-059-1-700 – Properties and Units for transfusion medicine and immuno-haematology has been published: Varming K, Forsum U, Bruunshuus I, Olesen H Properties and units in the clinical laboratory sciences. XIX. Properties and units for transfusion medicine and immunohematology, 2003 Pure and Applied Chemistry, 75:1477-1600

6.1.4 2001-077-2-700 - [Best practice for workplace exposure assessment: a critical review of methodology](#) (EO) abandoned (see also 6.2.15)

6.1.5 2001-048-2-700 – Research and training in Medicinal Chemistry in India, Pakistan and Sri Lanka (MC). Bangladesh and Thailand have been added to the study and the project has been completed and the final publication is under review. MC has together with several scientists completed a survey as it relates to the Indian subcontinent. The results indicate that few programs exist for formalized training in Medicinal Chemistry. The results were presented during a plenary lecture at a technology summit hosted by the Government of India, with Indian political and scientific leadership present. Considerable funding via public private partnership has been promised to organize four workshops with ca 1500 participants, each lasting a week at various locations in India (Delhi, Bangalore, Hyderabad and Pune). Dr. Attar-Rahman is working out modalities for Pakistani scientists to attend these workshops. Lecture courses will be given in India. MC will be appointed as “National Chair” to co-ordinate the program and bring in distinguished scientist from the Division. The workshops will start next year. The substantial value of this project and the opportunities for follow-up activities were acclaimed by the DC.

### 6.2. Current Projects

PE reminded that all completed projects should be sent to the DC President and secretary (CC) prior to publication.

6.2.1. 1999-047-1-700 - Immunochemistry of metal sensitization (D.Templeton). The project has been partly completed and two manuscripts are in the process of publication in PAC. The group (Doug Templeton, Mike Schwenk and Reinhild Klein) will continue the project with preparation of a third paper.

6.2.2. 2000-009-1-700 - Metabolism terms. (PE) The glossary has 10 terms left before completion and can then be passed on to external review. A draft will be discussed at the next SCMCD meeting in Copenhagen later this year.

6.2.3. 2000-010-1-700 - Human drug metabolism database(PE). The (IUPHAR/IUPAC) ICSU funded joint project has been delayed due to lack of financing. A pilot prototype will be delivered to gain more external funding; an annual \$ 100,000.00 is required each year over a period of 3 years and then a lower maintenance rate will be needed for an indefinite period. The terms of agreement for a copyright have already been developed between the IUPHAR, the IUPAC and the University of Toledo, and signatures have already been obtained from all parties. PE plans to advance the database during his sabbatical in 2005.

6.2.4. 2000-014-1-700 Recommendations for the use of Nanotechnology in clinical laboratories (Peter Wilding, AK). One article has been published in J Clin Chem. ML suggested to contact Gary Kurtzman at Bio-Advance, University Science Center, Philadelphia.

6.2.5. 2000-034-2-700 - Glossary for Toxicokinetics for chemists (M. Nordberg). The project has been completed. The glossary has approx. 300 entries and is in print in PAC May issue

6.2.6. 2001-048-2-700 - Research and training in medicinal chemistry in India, Pakistan and

Sri Lanka (MC). The project has been successfully completed. A follow-up of the project will be to run workshops according to the recommended curriculum. MC together with the Indian IPP will organize a series of one-week training courses with distinguished lecturers in India ( see also 6.1.4).

6.2.7. 2001-049-2-700 - Glossary of terms used in process chemistry/manufacturing of active pharmaceutical ingredients, and pharmaceuticals (MC and E. Breuer). The draft with 190 terms has been completed and circulated for review, which are already coming in. For the external review board members from the Internatl. J. Process Chemistry have been selected. Publication in PAC and an Editorial in J Process Chem is planned. The glossary will be incorporated in the Compendium of terms prepared by RG.

6.2.8. 2001-050-2-700 - Chemical, pharmacological aspects of natural products with medicinal and nutritive value (MC). The survey has been completed and the final document is ready for review and then publication. It contains three main aspects: Indian Ayurvedic drugs, therapeutic products of Islamic medicine and Chinese medicine. MC presented some of the results of the project, which has already elicited considerable interest. Color pictures of the plants were included. The manuscript shall undergo a stepwise internal review process (first SC then DC) within 8 weeks. A prologue and disclaimer that the review does not endorse specific therapeutic uses will be added. The secretariat shall be asked for support in finding a publisher or in publishing it as a pdf including colored pictures.

6.2.9. 2001-053-2-700 – Fundamental Toxicology for Chemists (JD). John Duffus and Howard Worth are the editors of the second edition of the textbook. The existing chapters will be updated and new chapters added. The project is running at schedule.

6.2.10. 2001-058-1-700 - [Concepts and structure for requests in clinical laboratories](#) (UF). The project is moving ahead and should be ready fall 2004.

6.2.11. 2001-066-1-700 - Global use of the C-NPU concept for properties in toxicology (WK, JD). The project has been completed and is close to publication. Urban please comment

6.2.12. 2001-067-1-700 - Properties and units for function examinations (A. Jabor). The project is not finished but it is anticipated that work will restart 2005 and be finalized

6.2.13. 2001-68-1-700 - Properties and units in medical molecular biology. The project has been finished and is under review. Publication will be in PAC and on the Internet.

6.2.14. 2001-070-1-700 - Properties and units for urinary calculi (A. Jabor). The project is not finished but it is anticipated that work will restart 2005 and be finalized then.

6.2.15. 2001-077-1-700 – Best practice for workplace exposure: a critical review of methodology (JMC) This projects has been abandoned due to conflicts of interest with new retirement laws in Denmark. Considering the value of the project, the members of Division are looking into the possibility that someone different than the original submitters may be able to revive this project. BH will contact EO and JMC to ask for proposals in lieu of Eric Olsen. A new project application must then be handed in, since reversing the budget of an abandoned project is not possible.

6.2.16. 2002-001-1-700 - Compendium of glossaries (RG). There is good progress and 6 glossaries have been finished in developing a single editorial format, new terms will be identified and included. The review process shall start with the glossary on Medicinal Chemistry.

6.2.17. 2002-051-1-700 - Analogue-based drug discovery (J. Fischer). The project has a good progress, but the original deadline of June 30 has been postponed. JF would like to finish the manuscript of the book by the end of 2004. It will however depend on all project participants. JF explained that nearly 50% of drugs are analogue based. Therefore a Chapter III "optimizing drug therapy" will be included with 15 – 20 subchapters on individual compounds out of ~ 60 main groups of pharmaceuticals. Prior to publication (Wiley) of the textbook, contract (signature) and copyright issues and use of revenues must be solved. Different opinions regarding the use of royalties were expressed and will be put forward to the secretariat by PE.

6.2.18. 2003-001-2 Explanatory dictionary of concepts in toxicokinetics (Monica Nordberg). The project has just started, because of a lengthy review process.

6.2.19. 2003-028-1 Glossary for chemists of terms used in toxicology- revision and updating (JD) A draft of the revised version including new terms in toxicokinetics and genomics has been prepared and circulated for comment to the working party and to representatives of Eurotox, IUTOX, BTS and SOT. The project making good progress.

6.2.20. 2003-059-1 Quantifying the effects of compound combinations (JL/Joseph Lehar). Dr. Joseph Lehar from Computational Biology in Boston/US continues with the project, previously

initiated by Prof. Poech from Austria. MC presented the scope and contents of the projects on behalf of Dr. Lehar, who was unable to attend the meeting on Saturday. BH met with JL the next morning and introduced him to Bryan Henry and Fabienne Meyers. JL will provide a short summary of the project for CI.

### **6.3. Interdivisional Activities**

DC VII has no primary responsibilities in these projects mentored by other Divisions but expressed interest in being informed about the progress, especially if funding has been contributed from the DC VII reserve. This shall be achieved by direct contact of the other DC President or Secretary.

6.3.1. 2001-005-1-300 Post Genomic chemistry (DC III). No information was available

6.3.2. 2001-020-1-300 - Glossary of terms and basic protocols used in photodynamic therapy. (Prof. Davies, UK). Prof. Nifantiev has become involved in the project, which has been delayed and no further progress has been reported until now.

### **6.4. Project Applications under review (Dec. 2003)**

6.4.1. 2003-044-1 Glossary of terms in combinatorial chemistry (Derek Maclean). Prof. Maclean has moved to San Francisco. It had been difficult to collect outside reviews. The project was formally approved by DC and should go into operation.

6.4.2. 2003-016-1 Integrating environmental exposure pathways für medicinal products. (M. Herrchen VI). The project has been postponed, due to pending regulation in the European Union (EU). Dr. Herrchen wants to await the outcome and start the project after legislation has been passed. Hence this project proposal remains "on-hold" pending receipt of a revised proposal. Again this interdivisional application is not dependent upon Div VII, which just wants to keep abreast of such projects once they've been initiated, preferably by direct request from the other Div. President/Secretary of DC VI.

6.4.3. 2004-19-1 Glossary of terms used in biomolecular screening (J Proudfoot), has received positive external reviews and was approved by the Division and can be moved to Current Projects status.

6.4.4. 2004-020-1 "Molecular Gastronomy" (RC, H.This). Several positive reviews for this project application have been received. Addition of a team member who is an actual food specialist (e.g. nutritionist) was recommended. With this revision the project has approval of the DC.

6.4.5. "Bioinformatics": Prototype Analysis of Molecular Biomarkers in Cancer (M. Liebman): Approved by the Division pending proper submission followed by the return of positive external reviews.

6.4.6. Prototype Analysis of Glossary Terms to establish Biological Context by Text Data-mining (M. Liebman): Approved by the Division pending proper submission followed by the return of positive external reviews. ML outlined his ideas on data mining in the field of cancer research and estrogenic compounds by use of information technology. CAS has agreed to give free access to their database. He has circulated the project application within the DC and will forward it to the secretariat within the next days for external review.

6.4.7. 2004-023-1- Terminology for observations in scientific vocabularies", by Dr. Pontet, the project has DC VII approval and the review process has been initiated.

6.4.8. 2004-025-1 Compendium of Targets of the top 100 commercially important drugs (John Proudfoot). A project application was received and approved by the Division pending return of positive external reviews.

6.4.9. IUPAC Survey and Discussion Group on Present Trends in Patenting Drug-Related Technologies (P. Erhardt & P. Lindberg): Approved by the Division pending proper submission followed by the return of positive external reviews.

## **7. New Projects**

### **7.1 Discussion of future plans**

7.1.1 Nutraceuticals derived from plant sources of South America (Antonio Monge). There is still strong interest to develop this project and MC will contact Prof. Monge.

7.1.2 Nutraceuticals derived from marine sources (ML and NF). ML sent information to Prof. Nifantiev but has not received a response yet.

7.1.3 Prediction of storage stability of drugs and compound libraries. (MC and Richard Wife

from Biospex). MC was encouraged to follow this up and mentor Dr. Wife into a project.

7.1.4 Educational Material for IUPAC Courses in the field of Medicinal Chemistry. (MC and A Monge) Educational Material for IUPAC Courses in the field of Medicinal Chemistry. (MC and A Monge) The project is very much encouraged. A book on practical aspects of education involving small scale experiments is also under consideration and was welcomed by the DC. The lectures of the forthcoming workshops in India might serve as a basis for this project.

7.1.5 Introduction of the NPU-database into the Russian system. NF contacted Prof. Dmitriy B Saprygin and came to the conclusions that Russia does not have Russian equivalents for the majority of biology terms and thus "English originals" are in use just with spelling in Russian letters. He also failed to find any organizations who might be interested to use the NPU codes. Nevertheless, he will continue to search the way how to introduce NPU codes into Russian practice. Further contacts ( Prof. Moshkin and Tarasova) will be provided by AK.

7.1.6 Revision of the Silver Book (Chris Rigg). Renee Dybker and Chris Rigg are not available to take this up. UF is seeking other project leaders.

7.1.7 Extension of the CNPU-system to Imaging. ML will explore with his contacts if someone is interested in the project.

7.1.8 Problems of metrology dealing with uncertainty. This topic could be developed together with NCCLS. AK and UF will follow up on this issue.

7.1.9 Natural products in therapy of three major diseases ( heart disease, diabetes, pulmonary disease) "Pharmacology in reverse" (MC)

7.1.10 Educational Material / Tox-Learn (J Duffus). Participation in a project on educational material was encouraged.

## 7.2 Conferences

7.2.1 A conference on Biodiversity was held in New Delhi in 2004. MC attended the conference and presented his projects on glossaries and curricula, which were very well received and elicited considerable interest. He agreed to provide a summary report publication in CI.

7.2.2 YO Philippe Barthelemy organized a well-received IUPAC-sponsored conference under New Directions in Chemistry on "Supramolecular Assemblies". Philippe has been in touch with the scientific editor of PAC (James Bull) and is preparing for PAC a special topic article. A summary of the outcome and discussions on this emerging topic shall be published 'simultaneously' in CI.

7.2.3 IUPAC conference, 2005 in Beijing. Again a ½ day symposium on Chemistry and human health ( 6 speakers) was proposed. MC had contacted the organizers but did not receive a response. Bryan Henry pointed out that it might still be possible to include the DC proposal by direct contact with Prof. Chunli Bai. PE contacted the organizer immediately after the DC meeting and proposed a technical session dedicated to Div. VII projects/activities during the Beijing meeting. He suggested a one-half-day time-slot for such from the host. In the meantime, DC members are asked to think about the possibility of contributing a potential presentation; a title for the talk accompanied by a short abstract in order to pick about six of such presentations that will then best reflect a cross-cut of our numerous Div. VII activities. It was suggested that each Technical Subcommittee Chair especially seek to produce at least two of such talks from among their distinct projects and membership so as to achieve some balance in this regard. The six talks will be delivered by Division members and each talk will begin by summarizing some of the IUPAC projects that each speaker is associated with and will then quickly focus in a more in-depth manner upon just one technical aspect from those projects for which that speaker is either actively involved in research or is considered to be an expert in the area. Each talk will go for 20 to 25 minutes so as to allow for 10 to 5 minutes for questions. The range of disciplines includes medicinal chemistry, clinical chemistry and chemical aspects of toxicology. Each of these areas will be represented at least once among the six lectures. Once agreement has been reached about participation, a title and abstract for each specific talk that is to be presented will be forwarded. PE will inquire whether it would be possible for speakers to obtain a cost waiver pertaining to the registration for the technical proceedings of the conference.

## 7.3 Division brochure

MC volunteered to write a Division VII brochure which is ready for publication very soon. He

was asked to mail the material to the DC within a week.  
Fund raising. MC has prepared a letter addressing Biotech companies explaining the work of IUPAC and especially DC VII and asking for financial support. The opinion of the secretariat on such activities is being sought in order to avoid interference with the IUPAC company Associates program.

The draft shall be sent to the DC by MC at his earliest convenience.

## 8. Cooperation within IUPAC

**ICTNS:** The ICTNS has been approached by PE for clarification of the way how to prepare a glossary entry. A clear direction with an overall guideline and specific formatting requirements is expected later this year. Bryan Henry reported that the new Chairman Jack Lorimer has made considerable progress with the work-load of the Committee.

## 9. Cooperation with other Organizations

**ICSU:** AK attended the annual meeting and will keep the DC informed. As a possible topic for funding by ICSU the drug metabolism database was identified and submitted.

**SOT:** JD attended the SOT Congress in Baltimore.

**NIH:** Co-operation with Phil Wexler's "World Library on Toxicology" and the "Tox-Learn" concept is continuing. Phil Wexler has expressed his interest in the IUPAC glossary of terms in Toxicology and intends to display an updated version on the NIH Toxnet website: <http://toxnet.nlm.nih.gov/>. The revised Glossary will be included in the Tox-Learn project.

**IFSTP:** (International Federation of Societies of Toxicologic Pathology). BH will keep in contact with the IFSTP President Dr. Robert Ettlin (Basel, Switzerland) and explore co-operation in educational projects.

**IPCS:** BH met with Dr. Besbellin (IPCS, WHO Geneva) and discussed the possibilities of co-operation. Dr. Besbellin will contact JD to explore possible input from the SCTRA for a project on updating educational material for pesticide handling in developing countries.

## 10. Personalia

TP was unable to attend this meeting, but can plan to attend the next one to report on the election committee. He has asked for suggested names for the nominating committee, but has not received any yet. He needs three more outside members, and asked the Division members and Subcommittee Chairs to send him their suggestions. Names should be forwarded within the next four weeks to TP with cc to PE. Once he has the nominating committee, he will start accumulating names of potential candidates. PE shall get a list of representatives from the NAOs, and forward this to TP. It will be useful for identifying potential candidates. 4 positions on the DC have to be filled with 2 nominees for each position. The CV of the candidates should be limited to 5 pages, to avoid lengthy internet downloads. Suggestions shall be conveyed directly to TP. Candidates, willing to serve, should be approached later next year: members of projects, subcommittees and possible candidates from outside by individual contact.

## 11. Finances

For the 2004-2005 Biennium 43.700 USD can be used for projects, enabling the Division to start 7-10 new projects. If all of the aforementioned pending projects and project applications go through, this still puts Div. VII at having room for a couple of more submissions during 2005. PE conveyed to the DC to share this bit of good news as appropriate and to keep thinking about additional cutting-edge project possibilities.

**12. Any other business**

The next Div. VII meeting is tentatively planned for March 4-5-6<sup>th</sup> in Amsterdam/NL. Henk Timmerman has agreed to serve as host for the meeting.

Adjourned 18:30

prepared by:  
B. Heinzow  
Division Secretary



## **REPORT ON IUPAC TRIP TO WELLESLEY, MA FOR DIVISION VII MEETING, 11-13 June 2004**

By Prof. Bryan R. Henry, IUPAC VP

I attended the Division VII off year meeting primarily to obtain insight into the operation of the project system within this Division. As was the case with Division V, the Division VII meeting was both useful for me and well received by the Division. I was welcomed at the onset and reassured at the close that my participation was appreciated.

This Division is very happy with the project system. "Projects are great!!!" Project generation, review, monitoring and funding are all working well. Project length is running from 2-4 years with most projects completed within 2-3 years. While there are some concerns (*vide infra*), there is an overall atmosphere of confidence and enthusiasm.

The Division attributes its success to the maintenance of a structure with three subcommittees. This Division comprises three rather disparate groups: Laboratory Medicine, Medicinal Chemistry and Toxicology. The subcommittees meet independently and it is the subcommittees that successfully generate projects. Subcommittees actively seek scientists outside of the IUPAC system to identify new areas of interest. Once a project is approved, a member of the subcommittee plays a mentoring role through ongoing communication with the Task Group Chair.

The subcommittees maintain a diversity of membership from both industry and academia. The Division attempts to generate projects at the cutting edge of science. In their own words they look for projects that go beyond glossaries and nomenclature, and that solve tomorrow's problems today. They attempt to address where their field is moving in the future. Several of their projects are directed towards defining concepts. Division funds are used to bring the subcommittee chairs to Division meetings and one of the first substantive issues on the agenda are the reports from the subcommittees. Typically the subcommittees meet once or twice per year. If possible the meetings take place at technical meetings where the members of the subcommittee would normally be present. Minutes of subcommittee meetings are placed on the IUPAC homepage.

The Divisional committee actively considers both completed and current projects. They discuss publication plans for completed projects. Current projects are evaluated and timelines examined. They look at projects currently under review with particular attention to subcommittee input. At times they approve a project subject to approval by external reviewers. They have a strategic discussion of new projects. One strategic direction of the Division is the need to improve the involvement of less developed countries.

### **Concerns:**

1. Division VII sees a need for wider recognition outside of the existing IUPAC family. One difficulty is that the amounts of money are relatively small, particularly for health related projects.
2. One operational problem is the difficulty in obtaining timely outside project reviews. They suggest a possible solution would be increasing

the number of proposed reviewers to five with a range in age and reputation. Another possibility is to use end group publication staff as reviewers. (*Note: Fabienne sees no problem with the submission of five names as reviewers*). A back up plan, currently in use, is for the Division Committee to act as external reviewers of last resort.

3. There is a difficulty with the format of some Glossaries. Often the format for Glossaries is defined within an expert technical area and that format is at times at odds with ICTNS requirements. In the interests of rapid publication, the Division has chosen to put material out as a “Compendium”. They see a Compendium as a collection of terms and definitions that can potentially serve as a draft for a full Glossary in a more rigorous format.

The Division believes that better communication of ICTNS rules is needed and, in particular, attention and publication of how those rules change. They will communicate some of these concerns to ICTNS and hope to meet with Jack Lorimer and two or three members of his committee in Beijing.

4. The Division sees a problem with IUPAC Conference Sponsorship. They see the process as overly bureaucratic and believe that the benefits are not really worth the effort. The two year advance deadline is unrealistic. They believe that a streamlining of the whole process would be helpful and beneficial to all concerned.
5. One difficulty with financing is to find the resources necessary to fund meetings of their subcommittees and stay within the 25% guideline. Their wish is to maintain the guideline because they want to use their funds for projects. They hope to explore a number of strategies, including direct fund raising.

## Summary

The Division is operating well within the project system. They are very much team players and want to cooperate under the IUPAC banner. While concerns exist they believe that through discussion and cooperation any difficulties can be worked out. They note that last year they were able to obtain extra funding beyond their project budget when worthwhile projects remained outside of their project resources. They cite this as an example of a functional cooperative approach.

In the foregoing I have focused on aspects of the meeting relating to the project system. What I have written is very much my impression of the Division views and perspectives. It was a pleasure to participate and I very much welcomed the opportunity to gain insight into Division VII activities.