

DIVISION VII
Chemistry and Human Health

Minutes of the Division Committee Meeting
Torino, Italy, 4-5 August 2007

Location and Schedule: The Lingotto, Polito 311, Torino, Italy

10.00 a.m. - 5.00 p.m. Saturday, August 4, 2007 and
12.00 noon - 4.00 p.m. Sunday, August 5, 2007

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1. Opening, Welcome and Approval of Agenda (PE)
Approval of the Minutes from the previous Division Committee Meeting-Brussels, December, 2007

Attendees were PE (Paul Erhardt), PA (Pedro Araujo) (Sunday only, for a brief while), FS (Ferran Sanz), FP (Françoise Pontet) (Saturday only), RC (Rita Cornelis) (Sunday only), JD (John Duffus), JF (Janos Fischer), RG (Robin Ganellin), DT (Doug Templeton), MN (Monica Nordberg), SB (Sergey Bachurin) and MSC (Mukund Chorghade). Please note that Mukund Chorghade is referred to as MSC to avoid confusion with Medicinal Chemistry (MC). Anders Kallner and David StC. Black (Secretary- General) attended part of the meeting as special guests.

PE welcomed the Division Committee members who were present. Initial discussion centered on a reorganization \ reordering of the agenda taking into account the varying schedules of the members. Anders Kallner pointed out that following our ratification of the Division elections, the TMs must be approved by the IUPAC Council at their forthcoming meeting. Note: Our election process for the position of President-elect evolved over the two days of the meeting. Since the Division subcommittees met separately, the projects were not individually discussed but incorporated into a comprehensive report by the Chair of the sub-committee. An electronic copy of the final approved agenda is attached to these minutes.

2. Division VII President's Report (PE)

- PE presented the annual report that was submitted to the Bureau and mentioned the highlights / salient features. Our division's report was submitted on time, adhered to all prescribed guidelines and received favorable responses from other divisions. The book on Medicinal Chemistry ("Analogue-based Drug Discovery" edited by JF and RG), arising out of Division projects and having 20 contributors has received excellent reviews in professional journals and has sold out its first print volume of 800 copies. A second printing is planned-a very laudatory letter was received from Dr. Frank Weinrich of Wiley. Many positive highlights were seen; our end-points and deliverables were showcased in PR materials. The IUPAC- Richter prize was an excellent venture.
- MC organized an inaugural "Advances in Chemical Sciences Symposium". Under the auspices of these conferences, eminent scientists from the strategic triad of academia, government and industry will deliver plenary lectures. This year's conference brought together 200+ scientists for a scholarly event focusing on medicinal chemistry, organic synthesis and methodology: these were areas where the chemical enterprise in the Boston area has a well deserved reputation for excellence. There was a stellar slate of speakers including Professors Robert Grubbs (Caltech), Eric Jacobsen (Harvard), and Steven Ley (Cambridge) along with senior industrial chemists William Greenlee (VP, Schering Plough) Mark Murcko (CSO, Vertex), and Tomi Sawyer (VP, Pfizer). Networking opportunities were well received. IUPAC publicity materials and brochures were handed out and volunteers were recruited to help with projects. We were fortunate in having the support of several pharmaceutical companies for this outstanding meeting; a group of distinguished vendors added luster and flavor to the discussions.
- The election process for the Division Committee was a very favorable and smooth one. The number of candidates of excellent caliber was high and the electoral response was

nearly 70%.

- Brazil has not paid its dues to IUPAC. This negatively impacts PA's participation and he must relinquish his position as President-elect as the IUPAC bylaws do not permit reimbursement of his travel expenses. He can continue to remain on projects. The disputes center on the annual dues that are traditionally calculated according to the size of the chemical industry. The Division had to elect a replacement.
- Our Division budgets reflect an overspend on administrative expenses and travel. Discussion on the number of meetings to be scheduled is necessary. Our current schedule of three meetings every two years needs to be revisited \ revised. Attendance of the Subcommittee chairs is critical even though some are not TMs.
- A "Strategic Opportunity Fund" has been established by IUPAC to fund novel, cutting-edge projects. This funding will be outside of Division funds.
- The proposed appointments of "Emeritus Fellows" received IUPAC-wide interest; other divisions will be involved in an IUPAC wide procedure to identify and select appropriate candidates. This will be a subject of ongoing discussions and PE will follow up.
- The Division is heavily involved in the World Chemistry Congress: some logistical issues are being sorted out.

3. Ratification of Elections / Approval of the proposed roster for Division VII.

The following roster was approved by unanimous vote. Anders Kallner suggested that the DC prepare some justification (if needed), for the Council, for having more than one person from a country as a TM.

Name	Proposed Status	Proposed Term	NAO
	TM-President	2008-2011	
Prof. Paul W. Erhardt	TM-Past President	2008-2009	United States
Dr. Mukund S. Chorghade	TM-Secretary	2006-2009	United States
Dr. Ole Andersen	TM	2008-2011	Denmark
Prof. Xavier Fuentes-Arderiu	TM	2008-2011	Spain
Prof. Monica Nordberg	TM	2006-2009	Sweden
Prof. Michael N. Liebman	TM	2006-2009	United States
Dr. Françoise Pontet	TM	2008-2011	France
Prof. Ferran Sanz	TM	2006-2009	Spain
Prof. Giorgio Tarzia	TM	2008-2011	Italy
Prof. Douglas M. Templeton	TM	2006-2009	Canada
Prof. John H. Duffus	AM	2008-2009	United Kingdom
Dr. Derek R. Buckle	AM	2008-2009	United Kingdom
Dr. Janos Fischer	AM	2008-2009	Hungary
Dr. Paul A. Illing	AM	2008-2009	United Kingdom
Dr. Yvonne C. Martin	AM	2008-2009	United States
Prof. Hendrik Timmerman	AM	2008-2009	Netherlands

Name	Proposed Status	Proposed Term	NAO
Dr. Rita Cornelis	NR	2008-2009	Belgium
Prof. Peter Nedekov	NR	2008-2009	Bulgaria
Prof. Zhu-Jun Yao	NR	2008-2009	China/Beijing
Dr. Kari Mattila	NR	2008-2009	Finland
Prof. Javed Iqbal	NR	2008-2009	India
Prof. Tetsuo Nagano	NR	2008-2009	Japan
Prof. So-Yeop Han	NR	2008-2009	Korea
Prof. Georg Becher	NR	2008-2009	Norway
Prof. Grzegorz Mlosten	NR	2008-2009	Poland
Prof. Sergey O. Bachurin	NR	2008-2009	Russia
	10 TM, 6 AM, 10 NR		

Subcommittee Chairs:

Dr. Françoise Pontet- SC on Nomenclature, Properties, and Units in Laboratory Medicine

Prof. C. Robin Ganellin - SC on Medicinal Chemistry and Drug Development

Dr. John Duffus – SC on Toxicology and Risk Assessment

Dr. Thomas J. Perun – SC on Public Relations and Elections

AM=Associate Member

NR = National Representative

SC = Subcommittee

TM = Titular Member

Prof. Giorgio Tarzia to replace Prof. Pedro Soares de Araujo

Discussion ensued about the selection \ appointment of a Division President and the most appropriate mechanism for effecting this. Pedro presented some valuable insights/perspectives on the situation in Brazil. He expressed his pleasure at the time he spent serving IUPAC and thanked his fellowparticipants in the Division for the friendship and collegiality he has enjoyed. Informal discussion centered around the procedures for formalizing a vote; Monica Nordberg and Doug Templeton confirmed their candidacy for the position. Various members expressed an opinion (at times in the absence of the candidates for short periods) on the positives that each of these excellent candidates bring to their candidacy and to the Division. Finally a secret written ballot was encouraged: the winner would be the one to receive a simple majority. DT received a majority of the votes and is the President-elect until January 2008. He assumes the position of President in January 2008, following the retirement of PE.

4. Updates from Subcommittees

4.1 Subcommittee on Medicinal Chemistry and Drug Development (“MC”) (RG)

RG presented results emanating from the subcommittee meeting on August 3; further details will be available from the meeting minutes of the SC. 14 members were present at the previous meeting in London: the attendance was much lower in Torino (only 7), in one case due to disruptions in travel schedules. It is suggested that TMs be reminded of the responsibilities that titular membership carries and attendance at the appropriate subcommittees is also a reasonable expectation. We will explore whether TMs that cannot attend a meeting could appoint an alternate for a specific meeting to maintain continuity and a quorum.

IUPAC- RICHTER Prize. This Prize was established to recognize a prominent scientist for outstanding contributions to Medicinal Chemistry. RG briefed the Division on the nomination and selection procedures to be used for the next awarding of the prize (US \$10000) in 2008.

The first IUPAC- RICHTER prize, University of Nottingham, England prize was awarded to Professor Malcolm Stevens during the EFMC meeting held in Istanbul. He presented a lecture in Istanbul, the lecture is to be repeated at the IUPAC Congress in Torino at the expressed wishes of the Bureau. We were unable to have him lecture in the USA due to paucity of travel funds. A new plaque has been made for Professor Stevens to correct an omission in the previous one: Professor Stevens is specifically cited for his “creative use of heterocyclic chemistry for a period of twenty five years applied to the invention of therapeutic agents developed for the treatment of cancer”. The award recognizes Professor Stevens’ leadership: his seminal work has resulted in the discovery of novel small-molecule agents that have progressed to clinical trials. Temodal (Temozolomide) is used for treatment of the deadly brain cancer glioblastomamultiforme.

The selection committee was chaired by RG and included JF as a non-voting member and representative of Gedeon Richter. The same selection committee will be maintained for the next round as their network will add an element of continuity. RG may replace one member of the committee for operational reasons. Nominations from the yesteryear will be carried forward to this round with the consent of the nominators. The next prize is expected be awarded and a lecture given during the ACS Medicinal Chemistry Symposium at Pittsburgh in June 2008. Information on the prize has been linked to the ACS medicinal chemistry division website. The prize for 2008 will now be advertised but indicating that travel expenses are not guaranteed and that the awardee is expected to give a repeat lecture in Europe.

- “On practical studies for Med. Chem. students” by Antonio Monge 2004-028-1-700, RG mentioned that a set of experiments in Med.Chem that will be feasible in Latin America has been published as a web edition in January 2007. The book in Spanish or Portuguese and in English is available for free access on the internet. Students taking courses in Medicinal Chemistry in academic institutions in the developed countries could pay a small fee for use of a prescribed text in courses. Further discussion with John Jost about the appropriate mechanism for doing so is suggested.
- “Latin American plants as sources for nutraceuticals by Antonio Monge 2005-081-2-700”: RG commented that the objectives of this project are to provide possible commercial opportunities for local industry in Latin American countries. Seventy pages of a draft have been circulated by Antonio Monge: some editing is required and is ongoing. Plants from Uruguay, Peru and Mexico are covered. The section on Uruguay needs to be expanded. An article in PAC is envisaged in the first instance; it could be

followed up with articles per country and ultimately all these articles could be suitably edited and combined into a book.

4.1.1 Completed Projects

2002-051-1-700 Analogue-based drug discovery. Editors: Janos Fischer and Robin Ganellin. The book was published by VCH-Wiley in January and has been described in Chemistry International 2005, vol 27 (6), 26. It has received almost 40 positive reviews to date including one in J Med. Chem 49 (15), 4799, 2006. Sales are sufficiently robust that the publisher has contacted Janos to propose a 2nd edition for 2009. However, the editors prefer to have a second volume rather than a 2nd edition and a Project Submission Form will be prepared to support this.

4.1.2 Current Projects

2000-009-1-700 Glossary of drug metabolism terms. PE
All terms have been defined but several are undergoing minor revision. At the same time, the overall formatting is being adjusted to the latest ICTNS requirements. It is anticipated that the glossary will be ready for public comment in 2008.

2000-010-1-700 Human drug metabolism database. PE
A prototype of the database has been assembled. A partner from the private sector is being sought to assist in fine tuning of the database. This will either occur in 2008 or the project will be made available to the public and IUPAC involvement will be terminated.

2001-48-2-700 Research and training in medicinal chemistry in India, Pakistan and Sri Lanka-- MSC
Medicinal chemistry and drug discovery are currently key growth areas in India. Mukund is in the late stages of organizing the first of two projected four day workshops on the basic aspects of Medicinal Chemistry to take place in India during 2008. The workshops will be sponsored by the Indian government with additional funding and facilities provided by ACS. Some of the division and MC subcommittee members will participate in the workshops.

Post-Meeting note: Several logistical problems were encountered in organizing the first of these in 2007. These problems centered on raising funds and organizing travel for all speakers. After extensive discussions with the representatives of the CSIR (an India govt. agency) and representatives from the Indian Pharma industry, a new date of February 2008 will be set. Mukund will have several meetings in Boston with ACS officials in August.

2001-049-2-700 Glossary of terms used in process chemistry/manufacturing of active pharmaceutical ingredients and pharmaceuticals MSC and Eli Breuer
Ongoing: definitions are being adjusted to IUPAC format. The revised copies of the Gold book have been received and the guidelines communicated to concerned project group members. The recommended modifications are being made; references are being added as per the guidelines.

- 2001-050-2-700 Chemical, pharmacological aspects of natural products with medicinal and nutritive value. MSC
Revision of the manuscript to conform to IUPAC guidelines and reviewer suggestions has been completed. An additional project is being written to survey the utility of plants for specific diseases such as diabetes and cancer.
- 2002-001-1-700 Compendium of terms associated with drug discovery and development. RG
Ongoing: definitions are being adjusted to IUPAC format. Waiting for the latest glossaries to be completed.
- 2003-044-1-700 Glossary of terms used in combinatorial chemistry. A.Ganesan
Derek McLean stepped down as leader of this project. RG invited Dr. Ganesan, University of Southampton, who has a longstanding interest in the area of combinatorial chemistry to take over this responsibility. The subcommittee members welcomed Ganesan to this new role. Ganesan has been active in this area and has taken over the leadership and has added two additional members to the task force: Professor Stefan Brase (University of Karlsruhe) and Nunzio Sciametta (Pfizer, Sandwich). Derek McLean will stay on as a member of the team. There is a strong component of inorganic chemistry involved in this. Could not a portion of the project be partnered with the inorganic chemistry division? Dr. Ganesan will explore this.
- 2004-019-3-700 Glossary of terms for biomolecular screening. J. Proudfoot
A draft document containing the definitions for approximately 150 terms has been sent to reviewers from the Society for Biomolecular Screening (SBS) for comment; it will also be posted on the SBS website for comment by SBS members. This phase should be completed by the end of September 2007. The document will then be formatted according to IUPAC guidelines.
- 2004-025-1-700 Compendium of targets of the top 100 commercially important drugs.
The project leader for the project on compendium of targets of the top 100 drugs (John Proudfoot) found that he was scooped and the information was already available on the internet. A particularly useful source is the Drug Bank <http://redpoll.pharmacy.ualberta.ca/drugbank> which was designed by Dr. Wisher and colleagues. This resource combines a comprehensive amount of information on drugs and drug targets. This project has been formally terminated John has written an article about this for Chemistry International that has now been published in the current issue of CI i.e. 2007, 29 (3) 23, (handed out at the GA this morning).
- 2005-032-1-700 Stand-alone drugs. JF
It has now been decided that the output from this project can be an article for PAC and that it will definitely provide the basis for a chapter in the planned second volume of Analogue- Based Drug Discovery.
- 2005-049-1-700 Biological context by data mining. ML

To extend the usefulness and applicability of the glossaries, it would be worthwhile to explore methods for identifying the various contexts in which the terms appear in the scientific literature. In the ideal situation, this project can transcend the three Subcommittees of the Division to incorporate activities of each.

2005-050-1-700 Prototype Analysis of Molecular Biomarkers in Cancer. ML
Molecular Biomarkers have become a major focus of disease management and drug development, particularly in oncology. This prototypic study will identify the existing biomarkers in breast cancer and classify them in terms of disease progression and also as to their clinical vs. research use. The project is underway.

It was suggested that Derek Buckle be co-opted to lead the proposed updates to the Glossary of Terms in Medicinal Chemistry. A Project Submission Form will be created, on his behalf, in time to take advantage of the new budget in 2008.

4.2 Subcommittee on Nomenclature, Properties and Units in Laboratory Medicine (“NPU”) (FP)

- FP, updating on the activities of the SC-NPU pointed out that the SC’s main concern is the maintenance of the NPU database containing about 22000 terms. Maintenance of the database has elicited a favorable response and interest from IFCC (pursuant to a meeting with FP, Gunnar Nordin -SC secretary- and Jarkko Ihalainen, IFCC- TM in Amsterdam). Two full time personnel will be required, IFCC is evaluating budgetary provisions for this. IUPAC will not have the budgetary flexibility to take on this task by itself. The database must be provided free of charge-the maintenance of this database and the hiring of professionals for maintenance might result in a few changes to free access. There may be several alternate procedures for charging for the use of this database.
- TP is to be informed about some changes in the list of completed and current projects so that he may update the PR materials appropriately.

FP alluded to the work of the SC that has been incorporated into PE’s annual report and corrected a couple of errors.

Excellent progress has been realized on the following projects

- Concepts and Structure for Requests in Clinical Laboratories
- Internationally agreed terminology for observations in scientific communication
- Mapping of IFCC-IUPAC laboratory coding system to SNOMED CT
- Securing and structural updating of information in the NPU coding system and its environment
- Recent advances in Nomenclature, Properties and Units: strategy for promoting SC-NPU achievements

Silver Book revision team: Chair: Georges Féraud

Task group members : René Dybkaer, Xavier Fuentes-Arderiu, Françoise Pontet

4.2.2 Current Projects

- 2001-067-1-700 Properties and units for function examinations. Project abandoned by chair but has now been taken over by NPU. Further update will be provided at NPU subcommittee meeting.
- 2001-070-1-700 Properties and units for urinary calculi resignation of the Chair has resulted in the subcommittee taking over the project
- 2004-023-1-700 This is an interdivisional project. Internationally agreed terminology for observations in scientific communication*. Slow progress: Nominal properties that do not have numbered properties. This project is late in completion and out of budget. This is particularly relevant to non-quantifying analysis and does not require quantitative computation of results. Can the deadline be extended?: The consensus was that this should be definitely possible. Communications with Fabienne need to be established. Can additional budgetary provisions be made? This might be more difficult.

Ulla Magdal chairs two projects: Results are presented on a poster.

Henrik Olsen will prepare a new project related to translation of the NPU database into Arabic. There are budgetary constraints: however, the mission ties in well with the IUPAC mission of widespread dissemination. DT suggested that it might be feasible to explore funds external to the Division. Considerable discussion ensued on the desirability of submitting a proposal to IUPAC for allocation of special funds for centralized translation of important documents into various languages. MN and DT will work on a preliminary proposal to be submitted, via the Division, to the IUPAC leadership.

4.3 Subcommittee on Toxicology and Risk Assessment (“SOT”) (JD)

JD, MN and DMT reported on the successful completion of several projects (Please refer to President’s report-PE) projects

4.3.1 Current projects

2001-053-2-700 Fundamental toxicology for chemists*

2001-066-1-700 Global use of the C-NPU concept system for properties in toxicology
Duffus JH, Bruunshuus I., Cornelis R., Dybkaer R., Nordberg M., Kuelpman W.(2007)
Properties and units in the clinical laboratory sciences, part XX. Properties and units in clinical and environmental human toxicology (Technical Report), (IFCC-IUPAC 2004)
Pure Appl. Chem., Vol 79, No 1, 87-152.

2003-001-2-700 Explanatory dictionary of concepts in toxicokinetics IUPAC Explanatory Dictionary of Key Terms in Toxicology (IUPAC Recommendations 2007 Monica Nordberg, John H. Duffus, Douglas M. Templeton PAC accepted. In proof for publication in PAC in September 2007

2003-028-1-700 Glossary for chemists of terms used in toxicology – revision and updating. Published in PAC, July 2007

2004-045-1-711 Training of school children on pesticides and health*

2005-013-1-700 Distance learning in toxicology: Effective teaching through technology. Completed March 2006

2005-047-1 -700 Glossary of terms used in ecotoxicology In Progress

2006-020-1-700 Explanatory Dictionary of Terms used in Toxicology (Part 2) In Progress

The second edition of the glossary of terms used in toxicology was published last month taking up one whole issue of Pure and Applied Chemistry. Phil Wexler National Library of Medicine, Division of Specialized Information Services, is to incorporate this into his book entitled “Information sources on Toxicology”. For ecotoxicology, a meeting was held in April. A second working group party is scheduled to meet in Denmark at the beginning of September. The resulting draft document will be circulated to external referees for review.

Explanatory dictionary of concepts in toxicokinetics (part II): Work has commenced and is expected to be completed within the stipulated time. Once complete and accepted for publication in PAC, part II and part I will be combined, revised and reformatted into book form to be published by the Royal Society of Chemistry under the title “Concepts in Toxicology”. A prologue and introduction will be written to complete the text. A new project will be proposed to prepare a glossary of terms used in environmental health.

Immunosensitization to metals: DT reported the following publications and topics covered therein:

PAC 2004-Mechanisms

PAC 2006-Lymphocyte transformation test

PAC 2006-Cytokine profiling

Ready for review-lymphocyte subsets

Manuscript in preparation-Immunochemistry of mercury

The last two named above will be ready for review this fall. 43% of budget remains. A future project contemplated: glossary of terms in immunochemistry.

It should also be noted that Monica Nordberg, with help from John Duffus and Doug Templeton, has been contributing to the ongoing revision of the IUPAC “Gold Book” with incorporation of new terms from the toxicology glossaries.

RG also queried whether additional industrial researchers are part of the other two subcommittees. He stressed that this could be particularly beneficial for Tox Subcommittee projects where it is clear that industrial toxicologists would have a point of view and be able to make contributions. Some industrial (probably pharma) toxicologists should be invited to participate in the projects, particularly since they probably do not need to use IUPAC funds. The consensus was that these possibilities should be explored and that the industrial chemists listed as working group members.

4.4 Subcommittee on Public Relations and Elections (“PRE”)

4.4.1 Elections

Tom Perun, Chair of the Nominating Committee, in a submission attached to PE’s report to IUPAC, reported that the election process was smooth and that we are expected to have a broad geographical representation and diversity on the DC. The candidates who did not receive enough votes to become TMs have agreed to become Associate Members (AMs) of the Division, and one candidate is a National Representative. These additional new members will further increase Division VII’s overall geographical representation, as well as contributing new expertise.

4.4.2 Public Relations: Efforts are well under way

4.4.3. A PR materials, e.g. Poster

The Division has four posters that will be exhibited at the Congress in Torino. There will be one Division poster and one poster for each of the three subcommittees. These posters will be exhibited at other events. The posters showcase the excellent projects conducted within the Division. The Department of Chemistry at Cambridge University (Professor Steven Ley’s group) and their photography group (Dr. John Holman) is gratefully acknowledged for invaluable assistance in getting the posters ready.

4.4.3. B Newsletter

A newsletter has been deferred to a later date. All members of the DC are requested to send their ideas and proposals to TP, who will prepare and present a draft plan for PR activities

4.4.3. C Fund Raising

The following has been discussed before but is worthy of repetition: “PE has drafted and circulated a plan of how the Division might go about fund raising.

1. Subcommittee member/team proposes a fund-raising effort on behalf of his/her/their subcommittee activities and/or project(s).
2. Subcommittee Chairperson submits summary to the Division about how funds are to be sought and specifies how the money will be spent in a non-profit manner to enhance the Subcommittee’s activities and/or to further support its ongoing projects.
3. Division provides approval for Subcommittee to initiate fund-raising effort and forwards the summary to the Secretariat.

4. Incoming money is deposited directly into general IUPAC account(s) via Secretariat.
5. Secretariat sets-up a "Fund" Project using its Project System mechanism specifying the Subcommittee Chairperson as the Project Leader who can then spend the money via the same expense submission process used for any other projects. No "cuts" will be excised by either the Secretariat or the Division, i.e. 100 % of the funds that are raised will be returned to the Subcommittee.

The same process may be undertaken on behalf of the Division wherein the President then becomes designated as the "Fund" Project Leader.

Depending upon various goals of the fund-raising effort, other spending scenarios may be able to be set-up by the Secretariat as well. For example, a self-sustaining sum of ca. \$ 5 K per year could be established by "banking" ca. \$ 100 K of raised funds into an IUPAC account so as to produce such a level of annual interest income in a perpetual fashion. The latter, in turn, might then be used to support some initiative that the Subcommittee or Division wants to run in an ongoing manner for several years, such as a continuing IUPAC poster award at some regular conference that is specifically relevant to the Subcommittee's or the Division's technical area.

HT had suggested the formation of an interdisciplinary sub-committee on Special Projects. Initially, this could be made effective as a working group.

5. Other Interdivisional Activity (PE)

Several additional collaborations are being explored. MSC attended a meeting of the sub-committee on biotechnology. This committee, previously reported as "inactive and moribund", is being reactivated. MSC has been made an AM of this-this opens the door more formal collaboration with Div III-Organic Chemistry. A project on herbal medicine that has been ongoing in Div III affords possibilities for collaboration-MS had a productive meeting with Professor Mohammed Mosihuzzaman (Bangladesh).

6. New Projects:

6.2 Proposals Under Review (MC) None are under current review. The previously approved ones are being initiated and additional new proposals are being contemplated by all

6.3 Potential Submissions:

The current budgetary situation does not leave room for funding of additional full projects. The projects previously discussed and reported in the previous minutes are promising and champions are encouraged to develop proposals for funding at a later date (presumably January)

7. Cooperation within IUPAC

CCE (MC): We plan to increase our collaboration with CCE. Several preliminary discussions have taken place and Dr. Peter Mahaffy, new President who succeeded Peter

Atkins has pledged full support. MSC is now an Associate member of CCE and serves as the DC's liaison. The DC reiterated that education is a strategic function of the division; the CCE has expressed great interest in collaborating on educational projects with Division VII. Peter Mahaffy attended our meeting and made a presentation. MSC attended the CCE meeting and was co-opted onto a task force on green chemistry and microscale synthesis. For the next GA, we will solicit their list of ongoing projects and offer collaboration and our expertise.

COCI (TP): Mark Cesa, Chair of COCI attended our DC and briefed members about their area of interest and collaboration possibilities. The group has an independent project budget and are reasonably well connected with industry. COCI raises funds via the Company Associates Program. The safety program that is a two-week program for industry has been successful in that researchers work in a company for upto two weeks. A presentation about the aims, goals and capabilities of COCI is attached herewith.

ICTNS (JD) A two day committee meeting has been scheduled in Turin. JD will discuss several issues

PAC (PE) PE is on the Editorial Advisory Board. Post-meeting note: MSC attended the PAC Editorial Advisory Board meeting as PE's alternate No strategic changes to the publication are planned. It is recommended by the Board of Publications of PAC that when a PAC article is planned as a deliverable for any of the DC projects, John Bull, Senior Editor, PAC is informed immediately to facilitate planning and scheduling of future issues of PAC. Concern was expressed that several projects (IUPAC wide) list PAC publication as a deliverable but do not inform James Bull.

- **Representation in other committees:**

ICTNS of the IUPAC: John Duffus to stay on until the Glasgow GA
 JCGM of the BIPM (WG2-VIM), IFCC René Dybkær, Françoise Pontet
 JCGM of the BIPM (WG1-GUM), IFCC, ILAC, CCQM: René Dybkær
 IFCC Scientific Division : Françoise Pontet
 CEN TC: Daniel Karlsson

8 Cooperation with Other Organizations

- AAPS (PE) Prodrug focus group has been established . Ongoing
- ACS (MSC, PE & TP) TP has been very active in the Medicinal Chemistry Division and made a presentation about our activities. Increased collaboration will result.
- AFMC (S-YH) The organization has been revived and Dr. David Winkler of Australia is the new President.
- EFMC (HT, FS) - Strong collaboration has been established

- ICOH (MN) International Commission on Occupational Health (NGO)
- ICSU and IPCS (AK) Professor Goverdhan Mehta is the new Chair.
- [IFCC (FP)] FP is the new representative from DC VII. The IFCC officers and FP are in constant contact with each other. Projects and activities are shared by both organizations; funding is also available from both organizations.
- ISSX (HT) Internal Society for the Study of Xenobiotics. HT will explore collaboration. No report. We will continue to maintain this relationship.
- IUPHAR (HT) No report
- IUTOX (JD) Liaison with Dr Paul Wright on Distance Learning in Toxicology. Ongoing collaboration.
- [NIH (JD)]-Connection established by JD through Phil Wexler. Tutorials have been established; these are expected to go on-line early next year. An essential reference glossary for these tutorials is complete.
- SBS (PE, JP) Society for Biomolecular screening-PE and John Proudfoot are on the committee. PE is on the academic outreach committee and will give a presentation at their meeting. Our DC poster will be presented. Two way collaborations and projects are ongoing.
- SCTM (MN) Scientific Committee on the Toxicology of Metals
- US SOT (JD). This is the US Society of Toxicology. JD will continue old collaborations and will explore new ones.
- USNC (PE) An annual meeting is held in Washington DC; we have additional breakfast meetings tied into the ACS National meetings. Much effort is ongoing on PR and fund-raising. Mark Cesa, Chair, relinquishes office in December 2007
- WHO, WHO-IPCS (JD, AK)-No report. An IPCS Environmental Health Criteria document on Chemical Speciation in Risk Assessment is in the process of publication with chapters by Rita Cornelis, John Duffus, and Doug Templeton and with additional contributions from Monica Nordberg. The material is not in print but is on the web. JD will continue to work with IPCS.
- RSC (JD): Ongoing collaboration. John Duffus has replaced Robin Ganellin.
- BNCC (Belgian National Committee on Chemistry): RC will organize this in 2007

9 Conferences:

9.1 Next General Assembly The DC will explore the possibility of toxicology contribution

DC will make proposals for mini-symposia in conjunction with JD and UNESCO. Division VII could organize something to fit into the Scientific Program. We can introduce modules

on Drug Discovery, Toxicology and Clinical Chemistry. Invited keynote and plenary lectures are feasible

For Medicinal Chemistry we can propose a module wherein one or two half- day sessions can be conducted on case studies of drug discovery, analogue based drug discovery and possibly have a plenary lecture from the winner of the IUPAC-Richter Prize; however, the prime intention is to have this lecture repeated at a European Medicinal Chemistry meeting. Morning session: 9-10 plenary lecture (conference wide) Invited keynote (2.30-3.10) Afternoon coffee break. We can have two invited lectures for 30 minutes each: two slots will be held for contributed papers. MC is scheduled to meet Dr. Caroline Evans (Royal Society of Chemistry) in Cambridge, England on Friday.

Post-meeting note: The meeting with Dr. Evans was a very productive one. The idea of a day long symposium featuring Div VII was broached and received an enthusiastic response

9.2 Conferences of Interest for IUPAC Sponsorship

All sub-committees are encouraged to identify conferences of interest for collaboration and partnering

10 Personalia: Already discussed. New DC will be in place in 2008

11. Finances: Most of the budget has been allocated. Post-meeting note: MC was reliably informed that the proposed budget allocation for the DC for 2008-2009 was \$ 62,300 (a \$2000 increase over the previous allocation). This is expected to be formally ratified by the Bureau by the end of this week.

12 Other business-

Appointment of Honorary Fellows: This information has been presented before but is reproduced here for ongoing discussions. The MC has identified people that have contributed significantly in the past and should receive special recognition for their services to IUPAC. 4 people were proposed from the MC: **Camille Wermuth, Les Mitscher, John Topliss and Naofumi Koga. Three of these had chaired the Medicinal Chemistry Section.**

- a. It was proposed that each SC submit nominations for the emeritus members each year and that RG would prepare the criteria for these selections. PE will advocate support for travel subsidies for each emeritus awardee to come to the GA to receive their distinguished service plaques. The DC president could address these accomplishments during the GA with or without the presence of the nominees.

SC-NPU suggested the following selected individuals: **Henrik Olsen, René Dybkaer, Urban Forsum.** One of the selection criteria would be that the selected person should still continue to share his/her experience and knowledge, with the SC or DC (or bring a significant contribution to SC or DC project). JD, DT et al (SOT) have proposed that **Philippe Grandjean** and **Stanley Brown** be added to the list. Stanley and Philippe have both chaired the Commission on Toxicology.

Post-Meeting note 2: RG's definition of an Emeritus Fellow is somebody who has given outstanding service to IUPAC, probably/usually over a long period of time,

such as being a Division President or Subcommittee Chair and having acted very positively.

11.1 General

Next DC Meeting –Presumably in the March/April time frame either just before or after the ACS Spring scientific meeting between the 6-10 April 2008 or just before and after the SOT meeting in mid-March. All were in favor of planning an initial meeting in the USA: the IUPAC headquarters in Raleigh-Durham has offered to host the meeting. The location is very convenient and offers easy access via Raleigh-Durham airport, the Radisson Governor's Inn is an excellent, moderately priced hotel in the area. An alternate possibility is Toronto. A final decision will be made in the very near future.