

IUPAC DIVISION-III
MINUTES OF THE DIVISIONAL MEETING, ORGANIC & BIOMOLECULAR
CHEMISTRY, MADRID, JULY19/20 2008

Express by Holiday Inn, Avenida de Aragon, Madrid

1. **THE MEETING** convened at 15.00
PRESENT: Prof P.R. Tundo (Div-III President), Prof G.J. Koomen (Vice President & President Elect), Prof. M.J. Garson (Secretary), Profs N. A, Al-Awadi (TM, Kuwait), G.M. Blackburn (Chair Biomolecular S/C, AM, United Kingdom), J. Cossy (TM, France), K.N. Ganesh (TM, India), M. Kocevar (NR, Slovenia), F. Nicotra (Chair Biotechnology S/C), A. Pilar Rauter (NR, Portugal).
APOLOGIES FROM DIVISIONAL MEMBERS AND NATIONAL REPRESENTATIVES: received from Profs. V. Ahmad (Pakistan), S. Braslavsky (Germany), J. Elguero (Spain), B. Han (China), M. Isobe (Japan), C.C. Liao (China/Taipei), F. McDonald (USA), V. Milata (Slovakia), N. Nifantiev (Russia), E. Uggerud (Norway).
2. **ADDITIONAL AGENDA ITEMS** tabled for discussion were
(i) Bye-laws; (ii) Procedures for projects; (iii) Chemrawn prize for atmospheric and green chemistry; (iv) Divisional representatives; (v) Titular members.
3. **MINUTES of previous meeting:** Torino August 2007
The minutes were circulated previously by email and were agreed by the meeting with one change. In item 6 of the minutes, the sentence beginning "Please react by mail to Isobe....." was deleted.
4. **PRESIDENT'S REPORT** from Prof Pietro Tundo.
Professor Tundo gave an oral summary of the Report dealing with major items including projects. He reminded the meeting that IUPAC funds are allocated to Divisions according to numbers of projects supported. In the case of Division III, the reduced budget for the 2008/2009 biennium is the result of the low numbers of projects funded. In order to fund Divisional activities in the future, it would be important to establish new projects. He briefly reported on a meeting held in Rome (11 June 2008) attended by 50 chemists including the Presidents of Division I (M. Rossi) and VI (N. Senesi) in order to involve Italian scientists in IUPAC activities and projects. Meetings of this kind that make IUPAC known to a wider audience and raise awareness of projects could easily be arranged in other countries. He also reported on the International Year of Chemistry, to be held in 2011 during which the IUPAC Assembly and Congress in Puerto Rico will be a major event.
5. **REPORTS OF SUB-COMMITTEES**
(a) Organic Synthesis. Prof. Garson presented a verbal report based on

information provided in an email report by the Chair, Prof. F. MacDonald (see Appendix 1). Recent meetings included ICHC21 (Sydney July 2007) and ICOS-17 (Daejeon, Korea, June 2008). Future meetings include ICOS-18 (Bergen, Norway, August 1-6 2010; organizer Sydnes), and ICOS-19 (Melbourne, Australia, 2012). The meeting considered that it would be timely to review membership of this subcommittee (ACTION: FMc/MG)

(b) Biomolecular Chemistry. Prof. Blackburn presented the detailed report for the S/C. Recent conference activity included the successful CHEMBIOTECH meeting in Torino (August 2007) and ISCNP26/ICOB6 in Charlottetown, Canada (July 2008). There are preliminary plans to hold ISBOC-8 in North America in 2010 and then in Europe in 2012. It was expected that biomolecular chemistry would feature strongly in the next IUPAC Congress (Glasgow, August 2009). In the project area, the Norin project (2005-042-1-300) was complete while part of the Koomen project (2002-030-1-300) had been published in *Chem. Biol.* rather than in *Pure. Appl. Chem.*, and so was still listed as “current” in IUPAC records. However the project was recently completed following a meeting held in Notre Dame, USA. Ideas for new projects were discussed, including those on dwindling phosphate resources, nomenclature of flavonoids, topics within environmental organic chemistry, and increasing the public awareness of organic chemistry. The membership of this S/C was also under review, with the need to co-opt Asian members noted.

(c) Green Chemistry. Prof Tundo reported on behalf of Prof Han that there would be a S/C meeting at ICGC-2 in September 2008 (Moscow). The CHEMRAWN VII Future Action Committee has awarded \$5k USD for a prize in Atmospheric and Green Chemistry to be administered by Division III. The prize would be awarded every two years to a young investigator (<45 yrs) from a developing country, beginning in 2010. The inaugural award would be publicised at ICGC-2. (Note: see additional comments below)

(d) Photochemistry. Discussion of this subcommittee and its activities was deferred since the S/C meets at the end of July in Gothenburg. Prof Braslavsky’s energetic leadership of this S/C was noted. (Note: The minutes of the Gothenburg meeting are included in Appendix 1.)

(e) Structural and Mechanistic Chemistry. A report from a meeting held July 15 2008 is included in Appendix 1. It was noted that the International Symposium on Physical Organic Chemistry was held July 13-18 2008 in Santiago de Compostella, Spain. Prof Tundo reported that he was invited to represent IUPAC in this meeting.; Prof Otilia Mò Romero (General Director, Office for Knowledge Transfer, Spanish MInstry for Science and Innovation) attended the Closing Ceremony. The meeting was well attended, and the scientific program had been excellent. The Division considered that the scientific focus of the S/C could be explored further with Profs. Uggerud and Krygowski. There are plans to submit two projects: the first on “Glossary of physical organic chemistry (theoretical and supramolecular) and the second on “Aromaticity”.

(f) Biotechnology. Prof Nicotra reported that the S/C held a successful joint

symposium with the S/C on Biomolecular Chemistry at the World Chemistry Congress in Torino in August 2007. The next international conference on Biotechnology would be held in Dalian, China in October 2008. Over 2,500 participants were anticipated. The following meeting would be held in Italy, likely in Bologna or Rimini, while an application from Korea to host the meeting in 2012 has been accepted. The S/C was considering how to develop new initiatives, especially in conferences and in projects. It was noted that it was not straightforward to design an IUPAC-type project within the biotechnology area, however there was some interest to develop an initiative involving the teaching of biotechnology at secondary level. The membership of this S/C is under review.

Following the S/C reports, the President stressed the need to increase IUPAC visibility on publicity materials for Conferences and Workshops promoted, sponsored or endorsed by IUPAC. Examples of ways to promote IUPAC include use of the logo on conference websites, the front cover of proceedings and/or a few words in the dedication.

6. **PROJECTS.**

A document tabling recent project activity in Division III was circulated. In his presidential remarks, Prof Tundo had noted that current and future Divisional funding was dependent on more projects, and had stressed the importance of developing relevant projects. There was considerable discussion on expenditure of the current divisional budget in relation to projects, and how to deal with this in future budgets.

Current projects included:

L. Mammino: Biomass burning in Sub-Saharan Africa (2007-025-1); workshop to be held in December 2008 followed by a book

A. Pascariu: Translation in Romanian and Dissemination of a Monograph for Universities and Secondary Schools on "Global Climate Change" (2007-035-1); completed

M. Mozihuzamann: Workshop for finalising project proposal documents for setting up of an International Centre for Natural Product Research (2005-034-1-300 and 2007-051); in progress

M. Isobe: Strategic planning for a new East Asian Network for Organic Chemistry (2005-039-2-300) - completed, with a new related project (2008-026-1) that requested 15k recently submitted.

(The meeting adjourned and recommenced on 20 July at 10am)

Proposed projects discussed included:

P. Tundo: Making the on-line journal of green chemistry: green rapid internet communications; feasibility study (2008-016-1); reports have been received. (ACTION MG: to collate and email to PT). (Note: This proposal was subsequently accepted for funding).

V. Lunin: Green Chemistry: creation and implementation of international cooperation in teaching and investigations (2008-017-1); this proposal has been considered outside project guidelines by IUPAC but might be suitable for funding as a conference; the proposal will be resubmitted and could be further discussed at ICGC-2 in Moscow.

P. Siskos: Translation on Greek and dissemination of a monograph for secondary schools on "Global Climate Change" (2008-018-1); the project has requested funds for translation and printing.

M. Isobe: Strategic planning for a new East and South East Asian Network for organic Chemistry (2008-026-1). It was noted that 15k had been requested. Given the reduced Divisional budget, it was unlikely that this level of support could at present be provided to an individual project. (Note: This proposal was subsequently accepted for funding, but at a reduced level).

7. CONSIDERATION OF SYMPOSIA

(i) Symposium Program for 2007-2008

- a. CHEMBIOTECH (Torino: August 2007); It was agreed that this was the most successful component of the World Chemistry Congress.
- b. ICOS-17 (Daejeon, Korea: June 22-27, 2008)
- c. ISCNP26/ICOB6 (Charlottetown, Canada: July 13-18, 2008); this meeting was attended by approx 200 delegates and had suffered in attracting delegates compared to an ASP meeting held in Athens in August 2008. Financial support and delegates from the pharmaceutical sector for meetings is in decline.
- d. ICPOC-19 (Santiago de Compostella, Spain: July 13-18, 2008); Delegate numbers were 380, many from Latin America; 11 plenary and 22 invited lectures plus two afternoon sessions of posters; however there was no clear conference theme, there were even some papers in synthetic organic chemistry.
- e. 22nd IUPAC Symposium on Photochemistry (Gothenburg, Sweden: July 28-1 August 2008)
- f. Green chemistry (IGC-2; Moscow, Russia: September 14-20, 2008); a special issue of *Pure Appl. Chem.* will be linked to this meeting.
- g. Biotechnology (13-IBS; Dalian, China: October 12-17, 2008)

(ii) Planning for future symposia

- a. ICOS-18 (Norway, August 2010)
- b. ISCNP27/ICOB7 (Brisbane: July 10-14, 2011)

- c. ISBOC (North America, Townsend/Vederas, dates to be advised)
- d. Biotechnology (Dalian, China, October 2008 then Italy in 2010); the Chinese meeting has ten parallel sessions and is bio-orientated with many biologists attending.
- e. Green Chemistry (ICGC-2 Moscow September 2008); suggestions include Canada, Brazil or India.
- f. Other
(Note: Heterocyclic Chemistry March 8-11, 2009; Polymers and Organic Chemistry July 5-9, 2009).
- g. The second circular for Glasgow (42nd Congress August 2-7, 2009) was tabled. The next GA/Congress will be in Puerto Rico in 2011 with a proposal from Turkey now to host 2013.

8. FINANCIAL PLANNING

There was extended discussion on the financial situation. The original 2008-2009 budget allocation to the Division was \$54.4k that should be divided 65:35 (approx \$35.4k and \$19k respectively) between projects and “operations” (note that the latter includes S/C activities). However in email correspondence with the Division, the IUPAC Treasurer Prof Corish had recently agreed to the Division spending \$25k on “operations” including costs associated with holding the Madrid meeting (~\$8k). It was up to the Division to decide the final allocation of funding to Operations and Projects within these limits. Additional funds available to the Project Committee of IUPAC could be used to support other projects originating from within Division III.

Decisions made included:

- (i) Division funding should be divided 50:50 between Operations and Projects this biennium.
- (ii) Each of the six Divisional S/Cs to be funded \$1.5k per annum for the 2008/2009 biennium (total funding for this \$18k).
- (iii) Allocation of ~\$27k to projects would provide approx \$5k per year to each of three projects.
- (iv) The Division should not provide any funding to the 13th International Conference on Novel Aromatic Compounds (Luxembourg) but the organizers could use the IUPAC logo. (Note: advice was later received that the sponsorship of this meeting was not a Divisional matter; an AIS was lodged with the IUPAC Secretariat and approved in the usual way).

9. FUTURE PLANS

The Division intends to develop an e-newsletter similar to that of Division II (Inorganic), and also recently initiated by Division V (Analytical). Prof Koomen undertook to be the editor, and requested each subcommittee send him a short

paragraph and a recent photograph for inclusion (ACTION- S/C chairs; ACTION – MG to send GJK the e-newsletter).

10. ANY OTHER BUSINESS

(i) The meeting approved that the Division would administer the CHEMRAWN VII prize for Atmospheric and Green Chemistry. Preference was expressed for the nominees to be <45 years rather than <40 years, since many young chemists from developing countries took some years to develop the appropriate track record of accomplishment. It was agreed that the prize would be announced at the Moscow ICGC-2 conference, and that nominations for the prize would close on December 31st of the year preceding the Green Chemistry conference at which each prize would be awarded. Each nomination should include a CV and two letters of support plus a brief summary of research. The terms and conditions are attached (Appendix 2). Publicity of the award was needed. Although the meeting was advised that brochures can be printed at no cost in Russia, this advice was later considered incorrect.

(ii) In relation to the Thieme prize (synthetic organic chemistry) and other awards, the Division agreed that broader representation on the nominating committee would be desirable.

(iii) S/C work: it was agreed that S/C chairs should preferably be TM's. Each S/C chair should be sent a copy of the bye-laws (ACTION MG to request copy from secretariat).

(iv) The following divisional representatives were confirmed: Prof Cossy (COCI), Prof Garson (CCE); Prof Rauter (Nomenclature); Prof Ganesh (Polymer Division); Prof Blackburn (Human Health).

(v) Prof. Michael Droescher will represent COCI in Division III meetings.

(vi) There was insufficient time remaining to discuss the process and procedures for evaluation of projects; guidelines should be prepared for the next Divisional meeting. (ACTION MG)

(vii) The President thanked all concerned for their attendance at the off-GA year Divisional meeting and for their good work on behalf of Division-III.

11. DATE AND TIME OF NEXT DIVISIONAL MEETING

Glasgow, 31 July/1 August 2009.

There being no further business, the meeting closed at 2.00pm.

Prof M.J. Garson
Secretary Division-III
August 2008.

APPENDIX – 1

SUBCOMMITTEES REPORTS:

Subcommittee on Organic Synthesis

Activities for 2007-2008:

In addition to organizing the canvassing process for the Thieme-IUPAC award (which resulted in an award to Dean Toste of the University of California, Berkeley, awarded at ICOS in June 2008), the committee has also arranged the meeting sites for the next two ICOS meetings. ICOS-18 will be organized in Bergen, Norway, by Prof. Leiv Sydnnes, for the dates of August 1 - 6, 2010. After considering three strong bids for ICOS-19 (Budapest, Melbourne, and Shanghai), the committee voted to award ICOS-19 to Melbourne, presumably to be held in the months June - August 2012. As all three bids were very strong and had no apparent weakness other than the apparent advantage of the Australian site for the sake of geographic diversity, we subsequently encouraged both Budapest and Shanghai to renew their bids for the next two ICOS meetings, and both organizers have expressed their enthusiasm for 2014 or 2016, so it is likely that we have good sites available through 2016, with the only decision to be made regarding which site will be in 2014 and which site in 2016.

OMCOS will be held in Glasgow in 2009, shortly before the IUPAC World Chemistry Congress and General Assembly, and Shanghai will host OMCOS in 2011. The organization of the OMCOS series of meetings is only nominally within the purview of the synthesis subcommittee, being semi-autonomously organized, but the conference appears to have a long history of being well-attended and well-regarded within the organometallic chemistry community and IUPAC in general.

Subcommittee on Biomolecular Chemistry

REPORT ON THE SUB-COMMITTEE ON BIOMOLECULAR CHEMISTRY

Madrid, July 19th 2008

2006-2007 MEMBERSHIP

Prof G. Michael Blackburn (Chairman), Prof Krishna N. Ganesh (Secretary), Prof Thomas Carrell, Prof Kelly Chibale, Prof Mary J. Garson, Prof Vadim Ivanov, Prof Torbjörn Norin, Prof Virinder S. Parmar, Prof Ezz-Eldin M. Salem, Prof Bilge Sener, Prof Kazunari Taira, Prof Craig A. Townsend, Prof Herbert Waldmann, Prof Yongyuth Yuthavong, Prof Li-He Zhang

2008-9 MEMBERSHIP

Professors Taira and Waldemann have asked to step down from the Committee. I have had no correspondence from Professor Yongyuth Yuthavong and, with agreement of Prof David Black, he has been deemed to have withdrawn. The remainder have all agreed to serve for the biennium 2008-9 (with the exception of Kelly Chibale – whom I have failed to contact but is on sabbatical leave from UCT).

New members: I have invited Prof Amelia Pilar Rauter (Lisboa University) following her sterling Divisional work in Torino and she has agreed to join the Sub-Committee. I have also invited Professor Aleksander Gabibov (Moscow), currently President of the Russian Federation Biochemical Society and a recent council member of IUBMB. Paul LeClair has brought forward the nomination of Professor José Lasalde (Univ. Puerto Rico) for the 2010-11 biennium. It seems to me that we should invite him forthwith (copy of his c.v. for circulation). I have had two nominations from Prof Waldemann (Prof. Nicholas Winssinger (Strasbourg) and Prof Karl Gademann (Lausanne). (Excerpts from their websites are for circulation), and one from Mary Garson. Others are welcome.

MISSION STATEMENT AND LONG-TERM GOALS

The Sub-Committee on Biomolecular Chemistry of the IUPAC Division III, Organic and Biomolecular Chemistry, will seek to deliver the long-range goals of IUPAC, particularly within the vital interfacial area of molecular science that lies between organic chemistry and biology. It will support the application of the powerful methods of chemistry to current and emerging problems in biology to achieve understanding and, where appropriate, modification of the systems of living organisms at the molecular level.

To that end, the Sub-Committee will provide a focus for the dissemination of current knowledge and the development of future directions in the following fields:

- Structure, function and applications of biomolecules and their analogues.
- Molecular mechanisms of biological processes and their modulation.
- Molecular engineering via chemo-enzymatic processes.
- Analysis, manipulation and application of biomolecular information systems.

MEETING REPORTS 2007-8

CHEM-BIOTECH 2007

This four-day CHEM-BIO-TECH Symposium comprised the IUPAC 1st Symposium on Biotechnology held jointly with IUPAC 8th ISBOC meeting. It formed a major part of the IUPAC Congress in Torino, August 5-11th, and had some of the larger audiences of any of the associated symposia. The organisation was most ably achieved by the smooth machine of Professors Mary Garson and Francesco Nicotra. The latter and Prof Mike Blackburn raised sufficient funding, independent of the Congress as a whole, to ensure that splendid list of speakers, headed by Nobel Laureate Robert Huber (MPI München), was supported in style. They did us proud!

ICOB-6 / ISCNP-25

This 6th Biodiversity/26th Natural Products Meeting has been held in Charlottetown, Prince Edward Island, Canada, and chaired by Prof Russell Kerr. As the dates were July 13-18th, no report is yet available. I engineered a donation of \$500 from S/C Funds to provide bursaries at this Meeting.

FUTURE MEETINGS

2009

As agreed at the Division-III Meeting in Torino, pride of place next year will be given to the Congress in Glasgow, August 2-7th, 2009. Several of our S/C Members will be speaking in one of the many Symposia focused on Biomolecular Chemistry. These are based within the **Chemistry for Health Programme** and include:

Bioinorganic Toxicity, Poison or Cure

Chemistry of the Cell

Chemistry in the Food Chain and Health

Chemistry for Solving Biological Problems

DNA-Based Electrochemical Devices and Biosensors

Heterocyclic Chemistry: Synthesis, Chemical Biology, and Drug Discovery

Natural Products

Oxygen Activation and Sensing by Iron in Biology

Peptides as Contrast Imaging Agents for MRI and PET

The Chemistry-Biology Interface: Drug Targets and Diagnostics.

There is to be a Chemical Biology Conference in Xiamen (China) in October 2009 and this may well seek IUPAC support.

2010

ISBOC-9

Several possible venues for ISBOC-9 are under consideration. Professors Ivanov and Gabibov have suggested a meeting on the outskirts of Moskva. I have initiated discussions with Prof Thomas Carrell and Craig Townsend (Yale) who have expressed interest in the organization of a future Biomolecular Chemistry Conference. Professor Virinder Parmar has also expressed willingness to support an ISBOC-9 Meeting in North East USA. I have received a suggestion to seek for a location in the Far East but no proposal.

ICOB-7 / ISCNP-26

The linkage of these two symposia, initiated in New Delhi, seems to have gelled permanently, though there are some issues to be resolved. I expect proposals for the next Meeting to emerge from Charlottetown shortly.

EURASIA 2010?

Prof Bilge Sener is committed to the ongoing organization of the Eurasia series of

Conferences on the Chemical Sciences, and these always have a strong Biomolecular component.

ICPC-18

The 18th International Conference on Phosphorus Chemistry will be held in Wroclaw, Poland, July 11-15th 2010 under the Chairmanship of Professor Pawel Kafarski, currently President of the Polish Chemical Society. Prof Kafarski researches into biologically active phosphonates and there will be a strong biological and medical content of his Conference.

COMPLETED PROJECTS

“**Chemistry for Biology** - an inventory of interdivisional and interdisciplinary activities within IUPAC in the field of biological chemistry - an inventory of interdivisional and interdisciplinary activities within IUPAC in the field of biological chemistry – generated by Professor Torbjorn Norin has now been published in PAC. (*PAC* 2007, 79(12), 2179-2366).

“**Fighting microbial resistance** through development of new antimicrobial agents, directed against new specific targets” is under the able Chairmanship of Professor Gerrit-Jan Koomen, and I expect to hear a report in this Meeting.

EXISTING PROJECTS

Professor Mosihuzzaman has documented a second Workshop in Dhakka March 16-17th 2008 for finalizing the project “**Setting up an International Centre for Natural Product Research (ICNPR)**.” (One copy available)

NEW PROJECT PROPOSALS

Professor Amelia Rauter has proposed two projects in the biological activity of natural products with special focus on carbohydrate materials.

Professors Ganesh and Parmar are working to generate new projects among their colleagues in India.

Professor Norin has suggested a Project based on a “Summer School” for young students early in their undergraduate careers focused on the biomolecular area of chemistry. (NB That differentiates them from others that are either for a local audience or broadly based in sciences beyond the chemistry profile).

Professor Blackburn has made progress on launching a project on “Phosphate – a Vital Global Resource in Danger”.

Subcommittee on Photochemistry

Minutes of the Meeting of the IUPAC Sub-Committee on Photochemistry, Göteborg (Gothenburg), Sweden, Wednesday July 30th 2008 from 12:30 to 14:00

Present: Cornelia Bohne (Canada), Silvia Braslavsky (Germany, Chairwoman), Fred Brouwer (The Netherlands), Axel Griesbeck (Germany, Titular member Division III on

Organic and Biomolecular Chemistry, IUPAC), Alex Krasnovsky (Russia), Guillermo Orellana (Spain), David Phillips (U.K.), Enrique San Román (Argentina), Trevor Smith (Australia), Masahide Terazima (Japan), Yasuyuki Tsuboi (Japan)

1. Approval of Agenda.

The agenda was approved

2. Approval of the Report sent to Div. III of IUPAC with copy to the Sub-Committee members

The report was approved

3. Report on Projects:

- a.** “Glossary of Terms in Photocatalysis and Radiocatalysis”, Silvia Braslavsky

This is a complex project, because in addition to collate the concepts put forward by members of Div. I (Parmon) and of Div. III (Serpone), a new necessity arose, i.e., incorporating concepts related to chemical engineering. New terms were proposed by Cassano (Argentina) and they were sent out for comments to several colleagues in various countries. A new version is being finalized. It will be ready by the end of October 2008.

- b.** Inclusion of Terms from “Glossary of Terms used in Photochemistry” (2007) in new version of Gold Book. Silvia Braslavsky is in contact with Prof. Aubrey Jenkins for the inclusion of the new and modified terms from the “Glossary of Terms used in Photochemistry” in the IUPAC Gold Book

- c.** “Fluorescence Standards”: report by Enrique San Román and Fred Brouwer. A meeting of members of the task force was held in Gothenburg on Monday July 28th. It was very productive. A report will be sent by both colleagues to IUPAC.

4. New Projects. Suggestions:

- a.** Guillermo Orellana proposed to start a new project on “Long lifetime emission standards” taking into account the rapid expansion of the field of light-emitting diodes. These compounds form the basis of the LEDs and OLEDs. Prof. Orellana will prepare a proposal to submit to IUPAC.

- b.** Prof. Braslavsky and Prof. Scaiano discussed after the meetings the possibility of starting a project for the collection of transient spectra. This question will be analysed taking into account that some spectra have been published in the web page of the Notre Dame Radiation Lab in Illinois, USA.

5. Report by Axel Griesbeck as Titular Member of Division III. Dr. Griesbeck stated that he just started his term and has analysed various projects, but none related with photochemistry.

6. Membership (see next page) and relationship with Titular Members of Div. III. Alexander Chibisov, Hiroshi Miyasaka, and David Phillips cease in their function and we thank them very much for their contributions to the work of the Sub-Committee. Waldemar Adam (Puerto Rico, proposed by the National adhering organization from Puerto Rico), Alexander Krasnovsky (Russia), Yasuyuki

Tsuboi (Japan) and David Worrall (UK) are incorporated as new members of the Sub-Committee.

No new chair was suggested for the Sub-Committee. With the agreement of IUPAC Division III, Silvia Braslavsky will continue chairing the Sub-Committee.

7. **Next Symposia:** During the Conference it was announced that the next Symposium on Photochemistry will be held in Ferrara, Italy, in July 2010. Scientific Chair is Franco Scandola. A request to IUPAC will be submitted in due time, **before end of 2008**. It was also proposed by the Portuguese photochemical community and the scientific committee of the 2008 Symposium that the Symposium in 2012 should be held in Coimbra, Portugal, and that the scientific chair should be Hugh Burrows, Portugal.
8. No other subject was discussed and the meeting was adjourned at 14:00 h.

Silvia E. Braslavsky,

August 12, 2008

Subcommittee on Structural and Mechanistic Chemistry

Subcommittee on Structural and Mechanistic Chemistry

Meeting held in the University of Santiago de Compostela (Spain), 15th July 2008, on occasion of the 19th IUPAC Conference on Physical Organic Chemistry

Present:

Subcommittee members: Tadeusz Marek Krygowski (Poland, Chairman), Einar Uggerud (Norway), Miroslav Ludwig (Czech Republic), Jose Ramon Leis (Spain), Allende Eduardo Humeres (Brazil), Charles L. Perrin (U.S.A.), Hans-Ulrich Siehl (Germany), Ikenna Onyido (Nigeria).

Guests: Dae Dong Sung (Korea), Marie-Francoise Ruasse (France), Michal K. Cyranski (Poland), Zvonimir Maksic (Croatia), Mirjana Eckert – Maksic (Croatia), Leo Radom (Australia), Louis Garcia Rio (Spain) and

Members of National Organizing Committee of 19th ICPOC.

AGENDA

- 1) Opening remarks, approval of the agenda and the schedule of meeting.
- 2) Minutes of the Meeting organized during GA in Torino
- 3) Report by the chairperson.
- 4) Election of the chairman of Subcommittee.
- 5) Discussion on a possible location of the ICPOC 20th in 2010.
- 6) Presentation of potential projects.
- 7) Suggestions from the Audience on arrangements of projects.
- 8) Any other business.
- 9) Closing remarks.

MINUTES

1. The Chairman opened the meeting with general remarks and the proposed agenda was accepted.
2. Last session of Subcommittee during the IUPAC General Assembly in Torino year was devoted mostly to the organization of 19th International Conference of Physical Organic Chemistry (ICPOC - 19) prepared by University of Santiago de Compostella (together with University of Coruna and University of Vigo). Prof. Leis and prof. Rio informed about preparation of ICPOC – 19 at Santiago de Compostela (Galicia, Spain).
3. Chairman informed about duties of the Subcommittee of Structural and Mechanistic Chemistry during the period of time between August 2007 and July 2008. Chairman opened discussion about activity of members of Subcommittee during last couple of years and also about new potential members from whole of the world.
4. Present chairman prof. Krygowski suggested to nominate prof. Einar Uggerud (Institute of Chemistry, University of Oslo, Norway) for the position of chairman of Subcommittee of Structural and Mechanistic Chemistry. There was no other proposal from other Subcommittee members. Results of secret voting: one vote abstain, all others votes for. Prof. Einar Uggerud was elected.
5. Prof. Dae Dong Sung presented a proposal of a possible location of 20th International Conference of Physical Organic Chemistry (ICPOC - 20) at Busan (Korea). Preliminary time was suggested 21 – 28 of August, 2010 (preliminary place Heuandae Beach Busan, Novotel Ambassador). Conference fee for participants is expected to be on the same level like in Santiago and Warsaw (price reduction for students promised). Members of Subcommittee accepted this proposal after discussion. Members of Subcommittee will discuss possible places for ICPOC 21 by e-mail (there has been no clear proposal yet).
6. Discussion focused on new revision of Glossary of Physical Organic Chemistry and a Compendium on Aromaticity. Responsible for these two projects are Charlie Perrin (USA) and T. Marek Krygowski (Poland).
7. The discussion on projects will continue at next meeting of Subcommittee of Structural and Mechanistic Chemistry which will be organized by new chairman during next IUPAC General Assembly at Glasgow (August 2009). Three new members of Subcommittee were accepted in order to activate work of Subcommittee: Mirjana Eckert – Maksic (Croatia), Leo Radom (Australia) and Maria de Lurdes S. Cristiana (Portugal). All of them are among potential organizers of the ICPOC 2012. No other business was considered and the meeting was closed with general remarks by the Chairman, emphasizing the urgent needs of the SC for the incoming of new projects.
8. Charlie Perrin on behalf of all members of Subcommittee said word of thanks to prof. Krygowski for his work as chairman of Subcommittee of Structural and Mechanistic Chemistry.

Noted by Miroslav Ludwig, Czech Republic.
Santiago de Compostella, July 21st, 2008

Subcommittee on Biotechnology

The story

As chairperson of the S/C of Biotechnology since the beginning of 2006 Prof. Francesco Nicotra had the mandate to “revitalize” the activities and in particular organise a meeting in 2007, as satellite of the IUPAC General Assembly and Meeting in Torino.

Contacts with the chair of the IUPAC subcommittee of Biomolecular Chemistry, Prof. Michael Blackburn, resulted in the idea to join the efforts of the two subcommittees, that have large common interests, to reach a critical mass in order to organise a joint-session (CHEM-BIOTECH 2007) within the 41st IUPAC Conference in Torino,

CHEM-BIOTECH 2007, a combined Biomolecular-Biotechnology Symposium has been successfully organised as a major component of the 41st IUPAC Congress in Torino, Italy, August 5-11, 2007. In designing the programme, the goal has been to focus on work at the interface of biotechnology and biomolecular chemistry from which many key industrial and academic advances have sprung. The programme embraces a range of topics ranging from novel drug discovery, biosynthesis, biocatalysis and organic synthesis through artificial enzymes and other emerging biotechnological applications. Attention has been devoted to the industrial experience in drug research and in biotechnological productions.

Future events:

In the Subcommittee meeting in Torino, it was initially discussed whether the CHEM-BIOTECH experience, born by a joint initiative of two Sub-Committees (on Biomolecular Chemistry and on Biotechnology), should be continued or if both Subcommittees should organize separate Meetings in the future. After a short discussion all the participants agreed with the idea that, in order to gain the necessary visibility in the field of biotechnology, IUPAC needs a series of conferences specifically focused on biotechnology. Indeed, this same position was also expressed in the previous meeting of the Subcommittee of Biomolecular Chemistry.

It was therefore decided to take advantage on the already existing **IBS (International Biotechnology Symposium)** series organised under the auspices of IUPAC every four years:

12 th Santiago, Chile	2004
11 th Berlin, Germany	2000
10 th Sydney, Australia	1996
9 th Crystal City, USA	1992
8 th Paris, France	1988
7 th Delhi, India	1984
6 th London, Ontario, Canada	1980
5 th Berlin, Germany	1976
4 th Kyoto, Japan	1972
3 rd Rutgers, New Jersey, USA	1968

2 nd London, U.K.	1964
1 st Rome, Italy	1960

The approved project was to organize an IBS Conference every two year: 2008, 2010, 2012..., as the only IUPAC Biotech event (events organized in “even” years will not be in conflict with other existing European series of Biotech Meetings).

The following agenda has been approved and therefore the future Meeting of the Subcommittee of Biotechnology will be:

13th IBS, 12-17 October 2008, Dalian, China, www.ISB2008.org

Chair Prof. Shengli Yang, Co-chair Prof. Fengwu Bai

14th IBS 2010, Bologna, Italy

Chair Prof. Fabio Fava (chair of the biotech committee of ITSusChem)

Co-chair Prof. Francesco Nicotra

15th IBS 2012, Daegu, Korea

Reference person, Secretary General of the KSBB, Prof. Tai Hyun Park

The composition of the subcommittee of Biotechnology:

Prof. Francesco Nicotra, Italy (Chair), Dr. Fengwu Bai , China, Prof. Jonathan M. Blackburn , South Africa, Prof. Mark Bradley , UK, Dr. Mukund S. Chorghade , USA, Prof. Nobuyoshi Esaki, Japan, Dr. Hak Sung Kim, Korea, Prof. Mahn Joo Kim, Korea, Prof. Fragiskos Kolisis, Greece, Dr. Sergio Riva, Italy (Secretary), Dr. Sebastian Wendeborn , Switzerland, Prof. Paul Wentworth, Jr. USA, Prof. Barbara Nawrot, PL, Prof. Carolyn R. Bertozzi, USA.

Subcommittee on Green Chemistry

(Submitted to Prof. Pietro Tundo, President of Division III, for Madrid 19/20 from Buxing Han, Chairman of the Subcommittee who apologized for his absence for this important meeting, and hope that the meeting be very successful. Some possible activities and ideas related with the Subcommittee on Green Chemistry are in the following.

1. The 2nd International IUPAC Conference on Green Chemistry

The 2nd International IUPAC Conference on Green Chemistry will be held in Russia during September 14-20 of 2008. This is an important event of the Subcommittee, which will also provide an excellent opportunity for subcommittee members to discuss some issues and make decisions, such as the date and place for the 3rd International IUPAC Conference on Green Chemistry, etc.

2. Proposals from the Subcommittee

We encourage members of the Subcommittee to submit proposals to the Division.

Currently, we are considering to write a series of high quality books on green chemistry, which will be very useful for practitioners in this field, such as scientists, engineers, and students. This need hard work, and we may discuss the possibility in the IUPAC Conference in this September. If possible, we need strong support and approval of Division III.

3. Green Chemistry Award

Green chemistry is a promising area. We should encourage more people make contribution to this field. We may consider to establish awards for green chemistry, which will award active scientists, engineers and others who have made significant contribution to green chemistry. If possible, we should make a detailed regulation for how to select the winners, the frequency of the awards etc. One of the possible ways is that we select the winners from participants of the International IUPAC Conferences on Green Chemistry, which are held biennially. If possible, this also need support and approval of Division III.

4. Inviting some new members

Some members think that green chemistry is an interdisciplinary field and suggest that we should add some members from the areas in which there is no enough members or there is no members. We are considering to invite some new members, and this is going on.

5. Conference next year

The 4th International Conference on Green and Sustainable Chemistry and 2nd Asian-Oceanian Conference on Green and Sustainable Chemistry will be held in the August of next year in Beijing, China. Buxing Han will be the chairman. We will apply for IUPAC Sponsorship.

6. Others

The Subcommittee will try best to make contribution to the development of green chemistry. We will contact the President of the Division if we have other ideas and plans.

Appendix 2

THE CHEMRAWN VII PRIZE FOR ATMOSPHERIC AND GREEN CHEMISTRY

The CHEMRAWN VII Future Actions Committee and the Organic and Biomolecular Chemistry Division have agreed to establish a prize to be called: The CHEMRAWN VII Prize for Atmospheric and Green Chemistry. The Committee and the Division have also agreed on the following conditions and operating procedures for the prize.

1. The prize of USD 5000 is to be funded by the income from the CHEMRAWN VII Future Actions Committee Fund.
2. The prize will be awarded biennially at the IUPAC Conference on Green Chemistry
3. The Prize is to be awarded to a young scientist (under age 45) from a developing country (to be defined by the Selection Committee) contributing in the field of green chemistry, emphasizing atmospheric chemistry.
4. The award will be administered by the Organic and Biomolecular Chemistry Division
5. The Selection Committee will be: the President of the Organic and Biomolecular Chemistry Division as Chair, the Chair of the Subcommittee on Green Chemistry, and the Chair of CHEMRAWN.
6. The CHEMRAWN VII Future Actions Committee will be informed upon selection of the winner, prior to informing the winner.
7. The first award is to be given at the IUPAC Conference on Green Chemistry in 2010. An announcement regarding the Prize will be made at the upcoming Moscow meeting (September 2008).
8. The Selection Committee reserves the right not to recommend an award.
9. The CHEMRAWN VII Future Actions Committee reserves the right to modify this award in regard to its dollar amount, as well as to its frequency of presentation (e.g., annually).
10. The Committee also reserves the right to terminate the award subject to providing at least a two year advance notice.

Date: _____
Rudy Pariser, Chair, CHEMRAWN VII Future Actions Committee

Date: _____
Pietro Tundo, President, Organic and Biomolecular Chemistry Division

Date: _____
David StC. Black, Secretary General