

Analytical Chemistry Division Committee meeting
IUPAC General Assembly,
Turin, August 4-5, 2007

Saturday, August, 4th 9.00 – 17.00 and Sunday, August, 5th, 9.00 – 16.00

Present: Prof. Ryszard Lobinski (President), Dr. Ales Fajgelj (Vice President), Prof. Roger M. Smith (Secretary), Prof. H. Kipton J. Powell (Past President), Prof. Paul De Bièvre, Prof. David Brynn Hibbert, Prof. Jan Labuda, Prof. Walter Lund, Dr. Zhifang Chai, Prof. Heinz Gamsjäger, Prof. Włodzimierz Kutner, Prof. Pentti Minkkinen, Prof. Hitoshi Watarai, Prof. Boris Spivakov

Observers: Dr Ruth Hearn (YO program), Dr. Kathleen Kelly (YO program), Prof. Filomena Camões (Sunday), Dr. Paulo De Zorzi, Dr. Maria Belli, Dr Totaro Imasaka

Apologies: Prof. Mauro Bonardi, Prof. Jan Åke Jönsson, Prof. Uwe Karst, Dr Zoltán Mester

1. Welcome and arrangements

The Division President, R. Lobinski (DP) opened the meeting and welcomed the Division Committee members and observers. He reminded the participants that there would be a scientific session organised by the Division at the IUPAC Congress to be held on the following Monday.

2. Matters arising, not otherwise on the Agenda: approval of Agenda

The agenda was approved unchanged

3. President's remarks

- a) The DP introduced his report to the IUPAC Council (http://www.iupac.org/divisions/V/V_rpt2007.pdf). The Analytical Chemistry Division (ACD) was continuing to maintain and extend its portfolio of projects, using a competitive selection process twice a year. The projects focussed on the Division priorities, including the maintenance of the Orange Book and the Stability Constants Database.

The Division was using *Teamwork*, a newsletter prepared by the Vice-President, to keep in touch with members and to communicate to the IUPAC executive. The latest issue No 13 (<http://www.iupac.org/divisions/V/Teamwork/2007/No13-jul07.html>) had just been circulated. This included notes on recently completed projects and new topics.

The ACD had also been active in publishing in *Chemistry International* and had organised two series of articles on "Emerging needs in Analytical Chemistry" and the "Tools of the trade".

- b) New projects in the 2006-2007 portfolio: The DP reported that eight new projects had been started in the current biennium. The Division budget allows support of 1-2 more projects. The deadline for next round of project allocations would be October 31st.
- c) Budget: project and operational funding. The DP reported that the Division had a budget of 56 600 USD in the current biennium with a guideline to use 30% on operational costs (including meetings) and 70% on projects. This guideline had been followed and 85% of the total budget had been spent to date.

4. Review of Project Progress Reports

In order to monitor the status and progress of projects in the ACD, regular reports are requested from Task Group Chairs (TGC). The report collection process is coordinated by the Division VP; the reports are reviewed by either the Division Committee or Officers.

A. Fajgelj (VP) introduced the current reports. Historically, projects coordinated by the Division fall into four groups: general ACD projects, projects originated from the Interdivisional Working Party on Harmonisation of Quality Assurance (IWPHQA), from the Subcommittee on Solubility and Equilibrium Database (SSED), and interdivisional projects. The VP noted that, despite two reminders, reports had been received only from 60% of the projects. The full list of projects is available at the Division Website (<http://www.iupac.org/divisions/V/cp5.html>) and the reports are attached to the respective project web pages.

In most cases there were few problems but a number of general issues had been identified which need to be addressed in order to improve the current project progress tracking.

- i) It was found that it was important that Task Groups should identify the type of report that was proposed at the project proposal stage. The report should either be a technical report or terminology recommendations, as these were assessed in different ways. Ideally the final manuscript should not address both areas and, if necessary, the work of the Task Group should be split into two related reports. It was emphasised that ICTNS had specific requirements for each type of report (available on the IUPAC website) should be consulted at an early stage of report preparation in order to facilitate the project evaluation and avoid unnecessary delays.
- ii) It was important to ensure that the report represented a consensus view of the Task Group members. Task Group Chairs would be explicitly asked confirm that all TG members agreed with the report's contents at the time that the report was submitted.
- iii) If a project had unspent funds on completion, these would be lost back to central accounts. The funds do not return to the Division, as once an allocation had been made to a project budget, this was handled centrally. It was therefore decided to include a question in the progress report forms on the use of funds and future plans. Secondly, it was necessary to check on completion dates or whether an extension would be needed. Any remaining funds near the end of the project could be used to disseminate information about the project. The

decision on project termination and closure of its account is made by the DP. Task group Chairs need to be aware that expenses claims cannot be met after a project is closed.

- iv) It was noted that the Executive Committee would now terminate projects automatically - 6 months after the completion date on the records and any residual funds would be moved to the central pool. The Secretariat will monitor projects to be terminated centrally, unless the Division President appeals. As a first step the completion date of any ACD project near the end of their expected life had been extended by the Division President to 31st Dec 2007. Any subsequent changes in project completion dates will have to be approved by the Division President who would notify the Secretariat.
- v) At the last meeting it had been decided that if no report had been received on a project for three reporting rounds, it would be assumed that a project had become inactive and should be terminated. The President would then request the Secretariat to terminate the project. In the last year one project had been rescued and two terminated.
- vi) The Task Group should be sufficiently broadly based and represent a sufficiently wide constituency to complete the proposed task. Project proposals need to be carefully evaluated to ensure the suitability of the task group membership for the proposed task but also that it might be desirable to add additional members to task groups during a project.

a) *Division Projects*

The DP reported on closure of the 2003-037-1-500 (Vo-Dingh) and 510:31/95 (Goshi) projects as no progress has been received for more than 3 years. However, when he was applying the DC decision from the meeting in Rome (March 2006) to terminate the 2002-009-2-500 (Gauglitz) project, he was informed that the final report was imminent so the project was finally kept active.

It was noted that most of the projects were running smoothly. The discussion focussed on the project with difficulties:

2002-058-1-500 (Burns): the final report was considered unsatisfactory. Although the Task Group had been asked to revise the report, the result still did not address the concerns of the reviewers. The task group had not responded to recent queries. As the discussion goes back to the former biennium the Past President, K. Powell, was asked to continue to follow it up.

2003-015-2-500 (Bonardi) Although the project is active and produced diverse outputs, no money of the considerable budget has been spent. The DP reported that he had addressed a query to the TGC. The problem had apparently arisen from a misunderstanding by the TGC that the unspent money would return to the Division, which will not be the case.

2001-072-1-500 (Kolotov) The final version has not been received despite the promises of the TGC for the last 3 years.

On the positive side, it was noted that a Wikigroup had been successfully employed by Kermit Murray as a method of achieving a wide range of views during the MS terminology project (2003-056-2-500). IUPAC was contemplating following a similar method for reviewing reports.

b) Subcommittee on Solubility and Equilibrium Data (SSED) projects

H. Gamsjäger presented an overview of the projects being run under the umbrella of the SSED. He noted that reports of the completed projects had been presented at international meetings and that summary reports had been placed in *Chemistry International*. A number of books and volumes in the *Solubility Data Series* had been completed.

The decision to terminate the project 2002-043-1-500 (Mather) was made because there was no chance for project to be completed. `

c) Interdivisional Working Party on Harmonisation of Quality Assurance (IWPHQA) projects

The chairman of the working party, A. Fajgelj, reported that no particular problems had been noted with their projects.

d) Interdivisional projects

2003-011-3-600 (Wauchope/Shaw). Following a report from the TGCs that it would be impossible to reach the project objectives, the DC had decided to terminate this project at the meeting in Rome (2006). However, as the project was Interdivisional and the part of the project of interest to Division VI can apparently be continued, the project had not been removed from the IUPAC records despite the request of the DP.

5. Review of the completed projects

a) Status of the completed projects

The DP listed the projects currently under revision coordinated by the Manuscript Central::

2001-041-2-500 (Spivakov)

2002-003-2-500 (Umezawa)

2002-009-2-500 (Gauglitz)

2005-017-1-500 (Shaw)

2003-056-2-500 (Murray)

b) Problems and ways to improve the current reviewing process

Task Group Chairs should request a password from the Secretariat so that reports can be submitted through Manuscript Central. Before this can be done, approval of the report is required from all members of the task group.

Once the final manuscript has been received, the Division President can decide whether the internal or external review process takes place sequentially or simultaneously.

Internal division review: the question had been raised if should papers (and project proposals) go to all DC members. It was suggested that responders should be asked to indicate the confidence in their expertise in the area (expertise in topic, near, outside). Some reviews were currently superficial; some lacked expertise and indicate approval without being sufficiently critical. Members were asked to help President in coming to a decision with greater confidence - currently some responses seemed automatic.

It had been agreed in Beijing that the Division representative on ICTNS should overview terminology papers before submission. W. Kutner reported that he was automatically invited to look at ACD papers in Manuscript Central on submission and that to preview papers would add an additional (unnecessary) stage. 4-5 members of ICTNS would normally review a submission and the final decision was made by the ICTNS Chair. By using Manuscript Central there were fewer problems of manuscripts being mislaid. This system appears to be working well.

A list of Experts for the external review should be proposed by the Task Group. More may be requested but this slows the review process. Similar problems were reported by other Divisions.

6. Reviewing and funding new projects:

a) Revision of the current modus operandi

When a project proposal is received by the Secretariat, it is submitted to the DP. The latter decides whether the review process internal/external should be sequential or parallel but the process itself is run by the Secretariat (Dr. F. Meyers).

It is important that at an early stage a project is identified as leading to a technical report or a terminology recommendation. Note that the term Nomenclature is reserved for the naming of compounds. A review paper can evaluate terms and make comparisons and consider techniques or methods but not make recommendations for new terms. The review paper can be followed by a terminology recommendation (but this probably should be a separate project with a separate proposal), which would usually be short without a discussion.

b) Project proposals in the course of the funding selection process

Two projects had recently been considered by the Division Committee.

2006-026-1-500 Electrochemical DNA-based biosensors: State and prospects (J. Labuda)
It was agreed to fund the project but there were still some problems in wording the project proposal. It was emphasized the outcome was to be a critical evaluation not a simple review. This should be reflected in the project title which should be "Guidelines" rather than "Recommendations" and should concern "terminology" not "nomenclature". The TGC will introduce the necessary corrections.

2007-010-1- International harmonized protocol for standard preparation, irradiation and measurement for assuring metrologically traceable results in neutron activation analysis (P. Bode)

The project was not approved for full funding despite generally positive reviews. The funding requested was originally too high but even after revision some questions had been raised. The project was described as a Technical report - but the aim and intentions were not clear. The DP will seek support from Division I and the project may return to the October funding round at a more realistic level. There is a need to seek alternative funding making more use of other meetings to minimise travel costs.

The discussion raised an issue whether the costs on applications should reflect full economic costing of the project. This was considered unrealistic in view of the limited funds available. Task Group Chairs should make use of meetings where an extra day would provide a meeting time and the conference travel was covered by another source. The IUPAC project money should not cover the cost of participation at a conference.

7. Division Committee composition for the 2008-2009 biennium

a) *Officers:*

(VP and DS were elected as a result of the ballot carried out in the beginning of the year)

President : Dr. Ales Fajgelj (Slovenia)

Vice-President : Prof. Walter Lund (Norway)

Secretary: Prof. Brynn Hibbert (Australia)

Past President: Prof. Ryszard Lobinski (France)

b) *Titular members:* elected as a result of the ballot earlier in the year (Appendix 1)

Prof. Paul DeBièvre (Belgium)

Prof. Filomena Camões (Portugal)

Dr. Zhifang Chai (China)

Prof. Jan Labuda (Slovakia)

Dr. Zoltán Mester (Canada)

Prof. Shoji Motomizu (Japan)

c) The following *Associate members* were nominated and accepted:

The DC appointed

Dr. Paolo De Zorzi (Italy) (IWPHQA)

Prof. Maciej Jarosz (Poland) (ICTNS)

Prof. Dana E. Knox (USA) (SSED)

Prof. Pentti Minkkinen (Finland)

Prof. José M. Pingarron (Spain)

as Associate Members. For the position relevant to separation techniques two candidates: Prof. Attila Felinger (Hungary) and Prof. Tatyana Maryutina (Russia) were proposed. As no consensus could be achieved during discussion, the DP asked for a vote (secret ballot). Prof. Felliger received 8 votes against 7 for Prof. Maryutina and was therefore appointed as an AM.

d. *National Representatives:*

The following National representatives were nominated by National Adhering Organisation of IUPAC and were accepted. Some nominations were ineligible because the NAOs had not paid their dues to IUPAC.

Prof. Resat Apak (Turkey)
Dr. S. Aggarwal (India)
Prof. M. Saeed Iqbal (Pakistan)
Prof. Hasuck Kim (Korea)
Prof. Tatiana Maryutina (Russia)
Prof. Roger M. Smith (UK)
Prod. Natasha Trendafilova (Bulgaria)

Additional members were being sought to broaden the geographic coverage of the Division Committee. Up to 10 National Representatives can be members of the ACD. The rule preventing the appointment of an NR from a country having a TM was judged to be a serious limitation in cases where several motivated individuals were available from the same country. Their involvement as TGCs was then recommended.

e. *Provisional Member*

Dr. Nelson Torto (Botswana) representing SEANAC

8. Membership of external committees

The DC decided the following appointments of Division/IUPAC representatives on external bodies

Interdivisional Committee on Terminology, Nomenclature
and Symbols (ICTNS)

Committee on Chemical Education (CCE)

Committee on Chemical Industry (COCI)

Pure and Applied Chemistry Editorial Advisory Board

International Committee on Weights and Measures/
Consultative committee on the Amount of Substance

(BIMP/CCQM)

ISO-Committee on Reference Materials (ISO/REMCO)

International Committee on Weights and Measures/

Prof. Maciej Jarosz

Prof Roger M Smith

Dr Zoltán Mester

Prof Walter Lund

Dr Ales Fajgelj

Dr Ales Fajgelj

Joint Committee for Guides in Metrology (BIPM/JCGM)

Working Group 1

Working Group 2

Inter-Agency Meeting (IAM)

Joint Committee on Traceability in Laboratory Medicine
(JCTLM)

Prof Brynn Hibbert

Prof Paul de Bièvre

Prof Ryszard Lobinski

Prof Paul de Bièvre

9. Round Table discussion: Refreshing the Division's project portfolio

An important part of the ACD meeting was to have a think tank discussion of possible future directions, potential projects and future work of the Division. Each member of the ACD had been asked to prepare a 5-min presentation, with the aim of generating ideas and raising issues to be addressed. During this session the ACD was visited by Professor Bryan Henry (IUPAC President) as an observer.

The conclusions of this discussion are summarized below:

a) *Project generation*

In order to succeed a project needs to have a motivated leader and good team who should take time to clearly define the objectives before submission. The projects usually originate from a personal interest whereas they should rather reflect the stakeholders needs. Most task group chairs are now from ACD- whereas earlier many were not in the division. The DC noted no clear evidence of input from outside the Division. On the positive note, now virtually all ACD members were involved in projects.

Some ways to improve the situation were evoked. They included:

- addition (by solicitation) of members to the TG after a project has been formulated and approved.
- addition of corresponding members who are not paid to attend the TG meetings.

Whereas the above measures are likely to improve dissemination, no valid idea was actually evoked of how to attract external individuals who would drive IUPAC projects. The most promising was judged to be personal contacts and contacts from participation at meetings. There was a special need for members from industry. Other suggestions were members of editorial boards or that suggestions should be sought from chemical societies.

b) *Suggested new topics* :

A number of project ideas were evoked. Generally there is a problem of how to convert an idea into a project. The ideas have been grouped into broadly related topics.

The ideas included:

- Calibration in multielement analysis (W. Lund)
- Optical dichroism potential project to examine interferences and validity of CD measurements (H. Watarai).
- Sampling methods/ storage and transport /education needs (P. Minkinnen)

- Chemometrics in all areas including spectroscopies (P. Minkinnen)
- Sensory test - bioanalytical chemistry and neurosciences (J. Labuda)
- Biomarkers and in clinical analysis (J. Labuda)
- Sample preparation and sampling - storage transportation. Out of lab analysis (WPHQA)
- Sampling methods / storage and transport/ educational needs (WPHQA)
- Terminology of sample preparation (J-A. Jönsson)
- Need for education of principles to general chemists/ special groups such as customs (P. de Bièvre)
- Analytical techniques on broader analytical platform - nuclear facilities for metalloproteomics (Z.F. Chai)
- Nuclear analytical techniques for organohalogen/nanotoxicology (Z.F. Chai)
- Standardisation of measurement in trade (P. De Bièvre)
- Simpler methods of elemental analysis for developing countries (W. Lund)
- Recommendation of an acid leaching method for metals in sediments, to replace the various methods now in routine use internationally in water laboratories (W. Lund)

c) Evaluation of the impact of completed projects

K. Powell presented an interesting study on the number of citations that the different project reports and recommendations had received. This indicator cannot be judged as a universal guide as to the value of a project as projects which are useful industrially do not usually receive many citations as industry does not often publish its work. However, the electrochemical reports on pH were the most frequently cited.

10. Committee on Chemical Education

Peter Mahaffy (Chairman) and Eva Åkesson (Secretary) made a presentation on the work of the Committee for Chemical Education (CCE). The detailed report on the activities of the CCE is available on their webpage.

Following the presentation the DC asked for assistance in conversion of the ACD reports in to a user friendly format so that they could be used by a wide community.

11. Metrological Traceability of Measurements in Chemistry project presentation

P. De Bièvre and R. Dybkaer gave a special presentation to an open session of the meeting on the Project 2001-010-3-500 "Metrological Traceability of Measurement Results in Chemistry".

The presentation was based on the recently completed and circulated draft report. The emphasis of the work is on the traceability of measurement results, which is a prerequisite for the correct estimate of measured quantity value in measurements. It is based on the tracing back of the uncertainty through all the steps between the final measurement and the International Standards and emphasises that the true uncertainty is based on all these stages, not just the final step. The topic generated an active discussion with queries about sampling and recovery factors.

The definition of “measurand” meaning the “quantity intended to be measured” is part of VIM and the two projects are related.

The authors of the paper are trying to gain widespread acceptance of the concepts in the paper, by circulating it as widely as possible. It was felt that desirably the paper should be submitted formally to IUPAC Manuscript Central so that it will go as a completed IUPAC document to public review by other committees and external bodies who can be defined as external reviewers.

There had been a proposal to open a new consultation period on the paper up to end of the year. The DP suggest that in preference the final document be submitted as soon as possible, so that the formal reviewing process can begin as soon as possible.

Next step in the development of the traceability studies is to produce a primer for end users and this would be shortly introduced as a new project proposal. This idea is that this would be a stand alone document with explanations and would contain practically relevant examples.

It was suggested that it would be useful for the Task group to include users so that the document would reflect the external view of a participant, who was not closely involved in the original report. In subsequent meeting it was suggested that help might be gained from CCE from COCI members, such as Company Associates.

12. Report from Interdivisional Working Party for Harmonisation of Quality Assurance (IWPHQA):

The report of the Working Party was presented by A. Fajgelj. He noted that the next Chairman will be Dr. P. De Zorzi

The proceeding of the meeting in Rome had been published by the Royal Society of Chemistry as a book "Combining and Reporting Analytical Results"

<http://chemistry.rsc.org/Publishing/Books/0854048480.asp>

and had been publicised by articles in the General Assembly issue of *Chemistry International*

The activities of the Working Party were being effectively merged within the ACD with a common budget but it still was developing interdivisional activity, for example with Division II in a project on sampling, their own project ideas, primer on traceability. New areas for harmonization have been identified, e.g. assessment of uncertainty arising from sampling; international co-operation is active but may still be strengthened and expanded.

The IWPHQA would be involved heavily with the analytical sessions in the IUPAC Congress later in the week.

13. Report of the Subcommittee on Solubility and Equilibrium Data (SSED)

A report of the work of the Subcommittee was presented by H. Gamsjäger and he raised a number of issues.

- the next Chairman of the Subcommittee will be Prof. D. E. Knox.
- it was judged to be valuable for the Subcommittee to be represented at Division meetings and he acknowledged that in the past funding has been provided by the Division as a policy.
- sometimes a project cannot be completed because of a lack of finance. The President noted that this was a general issue and that modest extra funds can be provided for defined purposes with assurances of completion of the report within a definite deadline. The proposals are examined on a request by request basis. The problems arise from mistake in the original project proposal and emphasise the need for careful scrutiny of proposal budgets.
- SSED biennial meetings are the main point where participants assemble and it would be desirable for an executive member of the ACD to be present to see how the Subcommittee operates. The next meeting is in Dublin (July 27-31st 2008). Other ways of increasing interactions would be for SSED members to be observers at GA (ACD meetings) or to link meetings of ACD/SSED.
- The members of SSED often feel they are forgotten and the suggestion was raised of including them in the IUPAC Blue Book, alternatively could they be included on the ACD website - under the membership of project task groups. The DP will discuss this with the Secretariat.

New projects were planned:

a) Phantom proposal, project submission forms sent:

Peter G.T. Fogg, Task Group Leader: Solubility of Higher Alkynes in Liquids
Complement to volume 76 of the Solubility Data Series entitled Solubility of Ethyne in Liquids,
Peter G.T. Fogg (ed.).

Task Group Members: Mark Salomon

Marian Goral, Task Group Leader: Mutual Solubility of Esters with Water

Task Group Members: Andrzej Maczynski, Barbara Wisniewska-Gocłowska, David Shaw, Mark Salomon

Valerii Sazonov, Task Group Leader: Nitriles C+3: Binary and Multicomponent Systems

Task Group Members: David Shaw, Marian Goral, Mark Salomon

Jitka Eysseltova, Task Group Leader: Solubility in Systems with Lithium and/or Sodium Nitrates

Task Group Members: Stefka Tepavitcharova, Vladimir Valyashko, Wolfgang Voigt, Mark Salomon

b) Project: Solubility Data Series – Updates and revisions of introductions to gas-liquid, liquid-liquid and solid-liquid solubility. Project submission form in preparation.

14. Report from Interdivisional Committee on Terminology Nomenclature and Symbols (ICTNS)

W. Kutner explained the position of ICTNS in the project report reviewing process. 4-5 reviewers were assigned to each terminology document when they reached Manuscript Central - if the paper was accepted or there were only minor changes then 2-3 rounds of corrections might be needed before publication. Recommendation manuscripts need 15 independent reviewers. The

concepts in VIM had been accepted - and ICTNS will require compliance in new documents. Uncertainty (and GUM) is often omitted from IUPAC papers. The Division welcomed being included in exchanges between ICTNS and a task group

15. Maintenance of the Division key products

a) *Solubility Constants Database (SCD)*

K. Powell introduced the background to the project. The database has been managed since 1992 by Academic Software but they now wished to pass the running of the database project on to IUPAC. A business plan was presented to Secretariat and Bureau but was not attractive because of financial and human resources needed (about 18 month ago). The Secretariat has subsequently agreed an arrangement with FIZ Chemie Berlin to host IUPAC web and for the running of databases on a secure site. But FIZ Chemie did not apparently realise that there was also as set of related programmes and the transfer has not been completed. IUPAC now has a formal memorandum with FIZ Chemie and agreement to provide data base support and the web interface but IUPAC would still have to enter data and be responsible for control of the quality but the database would not be free to the user.

The data is nearly complete up to end of 2006 as part of a current project. Data input routines and need to expand input teams had to be established. The interface was not yet known. Advice was needed by FIZ Chemie from Division.

It was suggested that the work would fit within SSED - and they might be asked to take over management. At the workshop at Dublin meeting there would be a discussion on input procedures.

There was concern that Academic Software were shortly to resign from the project and it is now becoming an urgent matter. Centrally IUPAC is a bit static and there has been no recent activity

b) **Orange Book:** report on status and future developments

R.M. Smith reported that there were a number of activities related to the Orange book and its updating. Currently there were 4 projects to revise and update Chapters: 8 - Electrochemical Methods; 9 - Separation Methods; 10- Spectrochemical Analysis; 16 - Radioanalytical Methods.

Some of these projects were designed to convert a narrative format of entries into a set of formal terms. The ACD was reminded that the formal terms would now generally be also included in the Gold book whose database would be the definitive file for IUPAC. Entries would therefore need to be in a correct style and format for approval by ICTNS and to have been published in *Pure and Applied Chemistry* as a Terminology paper.

[Following the ACD meeting R M. Smith attended a presentation at the **Committee of Printed and Electronic Publications (CPEP)** on the electronic future of the Gold (and related books). It was reported that a new IUPAC website was under preparation (and it would soon be moved to servers at FIZ Chemie in Berlin).

An updated electronic version of the Compendium of Chemical Terminology Gold book (since the CD circulated a few months ago) has been prepared in an XML format (<http://goldbook.iupac.org>) and is available on-line with much more cross linking information in the form of navigation maps to related terms (Now 13600 links present) It was now being closely integrated with *Pure and Applied Chemistry* (<http://www.iupac.org/publications/pac/index.html>) using metadata and would have a greatly enhanced search capacity. Whereas there had been some concerns that the Division would need to be involved in data preparation, this part of the preparation of entries is being carried out centrally based on the *Pure and Applied Chemistry* papers and no involvement is required from the task groups. They should complete papers as normal using a word processor. Currently being established for implementation in full 2008/9 (Project 2007-014-1-024). As they transfer the information from the Colour Books and back PAC files Division will be asked to eliminate obsolete terms. Each term would have a DOI and be linked directly to PAC.

The new version of the Gold book entries have no restrictions on the format or style and can include mathematical equations and chemical formulae.

The new IUPAC website would be integrated (using MySQL) so that any information such a membership of committees would only be held in a single place simplifying updating and corrections

IUPAC were trying to persuade Wikipedia to adopt official IUPAC terms as part of their entries as authoritative terms.

Statistics on the website usage will be available to Division Officers on application to Fabienne Meyers for a password]

16. Presentation by Committee On Chemical Industry (COCI)

Dr Mark Cesa (President) and Dr Caroline Ribes visited the ACD meeting to present the work of the Committee on Chemistry Industry. They noted the high proportion of academics compared to industrial representatives on the Divisions but made the point that industry has the same requirements: standardisation of data, methods and measurements.

Many of the COCI projects are closely integrated with Divisions. Some examples are: Safety training programme from developing countries, Public appreciation of science; NAO Company Associates recruitment and training; NGO/IGO/Trade association programme. Project ideas are also feed from industry through to the Divisions

The ACD was asked to nominate a representative (see above Z. Mester) on the COCI. C. Ribes is the COCI representative on ACD.

The COCI has developed a system of company associates to widen its effective representation, which the NAO are asked to nominate. It was suggested in discussions that COCI and the

company associates could be a source of suggestions for industrially based members for the ACD. It was proposed that the next ACD nomination committee could contact COCI for names.

16. Visibility and image of the Division: public relations

a) Division brochure: It has been proposed that the ACD should produce a publicity/information brochure and this would be proposed as a project for next round (by October 31st 2007).

b) Chemistry International articles – present and future.

The Division had been responsible for two series using authors from within and outside the ACD
Emerging needs of the Developing Countries (J-A. Jönsson): was now complete
Tools of the trade (K. Powell): 14 articles planned (5 are in press) many are from ACD

c) Web page: it was felt that there was scope for enhancement and management to generate a better Division communication space.

It contains a lot of information - but there is a need to make the information more accessible to external users, which needs Secretariat action. It was suggested that there could be a forum/discussion group. The Division web space could also serve as a source of papers for meetings to improve circulation

d) Teamwork – Newsletter of the ACD

The edition of Teamwork remains the responsibility of the Division Vice President. Issue 13 had recently been published. There would be a short issue to report the GA meeting and another at the end of the year

e) Sponsored conference and workshops;

Two conferences have been recommended by the Division for IUPAC sponsorship. They are: International Symposium on Metallomics (Nagoya, 2007), Solubility Phenomena and Related Equilibrium Processes (Dublin, 2008). It was reported that Southern and Eastern Africa Network for Analytical chemistry (SEANAC) whose first symposium had been sponsored by IUPAC had just held a second conference.

f) other

An initiative had been made (B. Hibbert) to encourage Journal Editors to follow IUPAC terminology and nomenclature - most had been agreeable (or had already accepted the recommendations) but a few felt that they wished to follow their own styles.

17. Closing remarks: recap of objectives, individual and group responsibilities

The Division President thanked the committee members for their attendance and activity over the last biennium. He emphasised that the aim of the ACD Committee is to continue to generate good new projects and ensure continuing involvement of the Division in the field of Chemistry.

He especially thanked K. Powell for his substantial contribution to the successful establishment of the ACD in its present format after the changes to the project system. Kip will leave the Committee at the end of Biennium and he was wished well in his new post as Chair of the IUPAC Project committee.

18. Next ACD committee meeting

The next ACD Committee meeting will be held in the 29th February - 1st March 2008 in Rome (Italy). A. Fajgelj, the incoming President, will circulate details in due course.

Appendix 1 Election of titular member in Spring 2007 to serve in the 2008/9 biennium

Elected member in bold

General Aspects of Analytical Chemistry

Nominee	
Prof. Resat Apak	2
Prof. Paul De Bièvre	15
Prof. Pentti Minkkinen	11
Prof. Elias Ayres G. Zagatto	8

Separation Methods

Nominee	
Prof. Attila Felinger	10
Prof. Tatiana A. Maryutina	11
Prof. Shoji Motomizu	15

Mass Spectrometry

Nominee	
Prof. Michael L. Gross	16
Dr. Zoltán Mester	19

Electroanalytical

Nominee	
Prof. Maria F. Camões	18
Prof. Richard A. Durst	17

Nuclear Methods

Nominee	
Prof. Zhifang Chai	20
Dr. Anthony R. Ware	16

Bioanalytical Methods

Nominee	
Prof. Jan Labuda	21
Prof. José M. Pingarrón	14