

Teamwork
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*Teamwork wishes all its readers a happy and
prosperous New Year 2006*

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Echoes from the General Assembly in Beijing

IUPAC held its 43rd General Assembly in Beijing, China, from 12-21 August 2005. This was the first General Assembly to be held in China, or in Asia.

Professor Kazuko Matsumoto elected IUPAC Vice President

At the Council meeting, Prof. Kazuko Matsumoto was elected vice president (president elect) for 2006-2007. Upon stepping in as president in 2008, she will become the second president from Japan and the first woman president since the Union was established in 1919. The Division is proud to see one of its members at the top executive position. We congratulate her and wish all the success in guiding IUPAC in its mission.

Analytical Chemistry Division Committee meeting

The ACD committee met during the GA in Beijing. We were happy to see our meeting assisted by a number of young observers and visitors; some of them have become future members of the ACD Committee as National Representatives (S. Kacaoba, W. Wang, H. Watarai).

The discussion confirmed the maintenance of the project portfolio and generation of new projects as the core business of the Division. In this spirit a division workshop on "Future Opportunities and Challenges for the ACD" was held in the tradition of former workshops held in Ottawa 2003 and in Vienna 2004.

The three core areas of the work of the Division were confirmed to be: critical evaluations of data and methods, quality assurance and terminology. They are complemented by a number of emerging issues such as bioanalysis, nanotechnology, support for developing countries

The Division meeting was followed by an open meeting promoted by WPQA to discuss the progress of the project "[Metrological traceability of measurement results in chemistry](#)". The aim of this Project is to arrive at an 'IUPAC view' on 'Traceability', a key concept in all measurement. The lack of consensus on this concept is unfortunate in view of the drastically increased use of chemical measurement results in important descriptions and decisions, such as those relating to international trade. Therefore IUPAC needs to produce a science-based, objective and unbiased view of 'Traceability'.

ACD Division composition 2006-2007

The officers for the 2006-2007 biennium are R. Lobinski (President), A. Fajgelj (Vice-President), K. Powell

(Past President) and R. Smith (Secretary).

The six elected titular members are: P. DeBievre, J.A. Jönsson (re-elected), W. Lund, D.B. Hibbert (re-election), M. Bonardi (re-election), and J. Labuda. H. Gamsjäger (SSED chair), W. Kutner (ICTNS), K. Murray, U. Karst, Z. Chai, P. Minkkinen were appointed associate members during the meeting. National representatives on the Division Committee are: Z. Mester (Canada), C. Balarew (Bulgaria), E. Dominguez (Spain), H. Watarai (Japan), B. Spivakov (Russia), E. Zagatto (Brazil), S. Kocaoba (Turkey), and W. Wang (China).

Teamwork congratulates all the elected and appointed members and is looking forward to their contribution to the Division's work.

Analytical Chemistry Division projects at the GA

The GA offered an opportunity for the presentation of number of our current projects as posters. This opportunity was grasped and 8 posters were presented:

- IUPAC standard definitions of terms relating to mass spectrometry (D. Moore)
- The IUPAC Compendium of Analytical Terminology on-line edition: a free resource (D. Moore)
- Chemical speciation of mercury(II) with environmental inorganic ligands (K. Powell)
- Compendium of physical and chemical properties of selected pesticides (D. Shaw)
- The IUPAC Stability Constants Database (SC-Database) (K. Powell)
- Terminology, quantities and units concerning production and application of radionuclides in radiopharmaceutical and radioanalytical chemistry (M.L. Bonardi)
- Thermodynamic analysis and application of metal carbonate solubilities (H. Gamsjaeger)
- International Organization for Chemical Sciences in Development (W.R. Benson)

Electronic copies of the posters are available from the presenters on request.

> [Link to Project Place display](#)

APAT- IUPAC Workshop - Rome, Italy, 4-8 March 2006

The even year meeting of the Analytical Chemistry Division Committee will be held in Rome on 4-5 March 2006. We are going to enjoy the hospitality of APAT, the Italian Environmental Protection Agency. Our meeting will be followed by a workshop on "**Combining and reporting analytical results. The role of (metrological) traceability and (measurement) uncertainty for comparing analytical results**" organized on 6-8 March jointly by IUPAC-APAT and IAEA. Please visit the APAT website www.apat.gov.it/site/en-GB/TemiSecondoPiano/qualita_aria.html for more information.

New Division projects

- IUPAC Stability Constants Database - completion of data collection up to 2006

Task group chaired by Kip Powell

SC-Database is used as the principal source of literature data for the steady stream of "Critical evaluations of stability constants" that are published by Division V. For this reason it is necessary to keep the database up-to-date. Although such evaluations come within the scope of Division V and its Solubility and Solution Equilibrium Data sub-committee, the relevance of the database is much wider, particularly to aspects of inorganic chemistry, physical chemistry and environmental chemistry. Division V is investigating ways of encouraging a more inter-Divisional ownership of the database.

Data compilation for SC-Database involves literature search and evaluation, then data entry using the program SCEnter, and quality control checks on entered data. The data are then sent to the data coordinator, Academic Software (AS), for conflation of master files. Data compilation was a voluntary

effort (Commission V.6) until the mid-90's but this was unable to keep pace with publications. A Division V project funded by the Project Committee in 2000 and completed in 2005 captured data for 47 journals (1995-2001), captured some 1000 "missed" references (1970-95), corrected many errors transferred from the book volumes (1900-1973) and completed compilation for 8 additional or new journals (environmental, engineering and biochemical).

Coverage is currently complete to the end of 2002 for 26 mainstream journals, to 2001 for 11 journals, 2000 for 9 journals. The objective of the new project is to bring the literature coverage in the IUPAC SC-Database up-to-date to 2006. The project also aims at establishing a team of experts to supervise data entry and oversee quality control and assuring a succession of experts to continue this work beyond the current project.

> [link to project 2005-014-1-500](#)

- Glossary of terms related to solubility

Task Group chaired by David Shaw

Clear and consistent use of agreed-upon terminology and nomenclature is essential for unambiguous scientific communication. For many years Division V has carefully prepared recommendations for analytical chemistry related terminology and nomenclature. They are all summarized in the Compendium of Analytical Nomenclature (the Orange Book). Updates and revisions to the Orange Book are essential part of the Division's project portfolio.

The existing section of the Orange Book that treats solubility equilibria (3.2.5) is quite brief and limited to the aqueous solubility of ionic substances. This project will revise, expand and update this section with a comprehensive treatment of terminology related to solubility including the solubility of gases in liquids, liquids in liquids, and solids in liquids.

The Task Group preparing this revision is drawn from members of the Subcommittee on Solubility and Equilibrium Data and participants in the Solubility Data Project. Thus the Task Group consists of an international group of solubility experts who are familiar with the procedural requirements of a project leading to IUPAC Recommendations. In addition the Task Group members have access to a variety of IUPAC generated documents (Solubility Data Series Guideline for Compilers, Evaluators and Editors; Introductions to the Gas-Liquid, Liquid-Liquid, and Solid-Liquid Sub-series of the Solubility Data Series; and the Experimental Determination of Solubilities). These contain many important definitions of terms and constitute a partial first draft of the work.

> [link to project 2005-017-1-500](#)

Next call for the project proposal selection for competitive funding

The next Selection Date for projects for competitive funding is **April 30, 2006**. It implies that all reviews must be completed by April 1, 2006 for a project to be eligible.

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