

**IUPAC Analytical Chemistry Division Minutes**  
**Officers' meeting,**  
**University of Boston, November 20/21, 2004**

Present: K. Powell (President), D. Moore (Past President), R. Lobinski (Vice President), R.M. Smith (Secretary)

**1. Welcome**

The President welcomed the members. The meeting thanked Fabienne Meyers for arranging facilities and accommodation.

**2. Approval of Agenda.**

The proposed agenda was accepted and additional items were noted for AOB

**3. Report from Bureau meeting**

The minutes of the last Bureau meeting were considered and possible actions and questions discussed.

- a. Other Divisions use subcommittees to generate activity. In contrast we have only one. Div V should make more use of its Teams to stimulate projects – so far not really happening. It is important that all TMs and AMs become involved in projects, partly to gain experience and also so that they understand the activities involved in projects. Questions raised for future discussion included:
  - i. Should we try to involve more industrial chemists?
  - ii. Should Teams be more involved in assessment of projects, at start and end?
  - iii. Should projects be sponsored by sub committees / team before being sent externally for review?
- b. Div III Biotech subgroup has been reconstituted – suggest a possible interdivisional meeting at the GA as there could be overlapping project areas.
- c. Conferences – rules had changed to allow financial support which could assist participation from local economically-disadvantaged regions even if the conference country was not eligible directly. Support would need to be targeted. This form of assistance was possible even if the conference was part of a well established series but in a disadvantaged location.
- d. The electorate for Division committees may be increased to include members from subcommittees, at the discretion of the Division Committee.
- e. The number of NR allowed on each Division is increased from 6 to 10

- f. The operational component of the Division grant was previously limited to 25% but the limit is now 30%.
- g. In comparison to other Divisions the ACD is doing well. A good number of projects and good internal mechanisms – especially the project review process.
- h. The President was not made aware of any perceived weaknesses in the Division. He expressed concern about the generation of new projects as most current activities were ‘legacy projects’ and few new ideas were in the pipeline.

#### **4. Review of Project Progress Reports.**

Reports were received for most projects. These were reviewed. Copies to be sent to all ACD members. Copies would also be linked to Project pages on IUPAC web pages. *{Action: KP to discuss with FM.}*

For a Summary of Projects see Appendix A

#### **DIVISIONAL PROJECTS**

1999-044-2-500 - Terminology for the description of peak asymmetry in chromatography

Progress seems to have stalled. RMS to follow up – potentially merge into 2001-063-1-500

1999-050-1-500 - Chemical speciation of environmentally significant heavy metals and inorganic ligands

Good progress – mercury completed - one paper published and one paper in press in PAC. Copper and lead are close to completion

2000-003-1-500 - Ionic strength corrections for stability constants

Programmes expanded – drafts available on Academic Software website – to make available on IUPAC website when complete.

2000-004-2-500 - IUPAC stability constants database - completion of data collection up to 2000.

See item 15 for future development.

2001-038-2-500 - Recommendations for NMR measurements of high pK values and equilibrium constants in strongly basic solutions

Lost in Manuscript Central system; not yet reviewed by ICTNS *{Action: KP}*

2001-041-2-500 - Recommendation on the use of countercurrent chromatography in analytical chemistry

Nearly ready for Division review (to include Kutner and RMS) - need to locate external reviewers who are not on task group

2001-055-1-500 - Critical evaluation of stability constants of metal complexes of complexones for biomedical and environmental applications

Report with Secretariat. Communication problems had resulted in reviews not reaching the author, so that requested changes had not been acted upon. Problems in Manuscript Central processing/author communication were now recognised and review of the paper would be expedited when resubmitted.

2001-063-1-500 - Revision of terminology of separation science

Originally delayed by expectation of XML changes. But review now needed on basis of original versions, with XML implementation to follow.

2001-072-1-500 - Low activation materials for fusion technology:

Concern that progress was delayed by translation. Assistance will be offered to expedite completion. *{Action: KP}*

2001-073-1-500 - Determination of alpha-emitting radionuclides in diet: Review and evaluation of analytical methods for artificial and natural alpha-emitting nuclides in food and human tissue

Concerned that no report now, or for Vienna. *{Action: - KP to follow up. Project subsequently cancelled by Hiromichi Nakahara due to age of original draft material}*

2001-075-1-500 Compilation of  $k_0$  and related data for NAA in the form of electronic database

Published in PAC, October 2004.

2002-002-2-500 - Recent advances in electroanalytical techniques: characterization, classification and terminology

Slight delay in completion of about 6 months

2002-003-2-500 - Performance evaluation criteria for preparation and measurement of macro and microfabricated ion-selective electrodes

Almost ready for Division review. Division reviewers to be Jan-Ake Jönsson and Brzozka Zbigiew.

2002-009-2-500 - Optical spectrochemical analysis using waveguides and optical fibres;  
Series on Nomenclature, Symbols, and Units in Spectrochemical Analysis

Expects to finish by end of 2004.

2002-058-1-500 - Definitions and fields of application of the terms robust and rugged and the characteristics or qualities of robustness and ruggedness in analytical chemistry

Request for an additional budget not approved. ACD suggested project could be completed by email. Recent suggestions were that ruggedness was being dropped as a specific term by ICH and replaced by intermediate precision and reproducibility. *Action: KP to communicate decision. RS to investigate ICH position.*

2003-015-2-500 - Terminology, quantities and units concerning production and applications of radionuclides in radiopharmaceutical and radioanalytical chemistry

Has received good publicity via conference presentations.

2003-037-1-500 - Optical biosensors and bioprobes; Series on Nomenclature, Symbols, and Units in Spectrochemical Analysis

No report or response - for last two years (old project reactivated)

2003-056-2-500 - Standard definitions of terms relating to mass spectrometry

A web forum has been adopted using the Wiki format. Response to this by the Task Group has in general been poor. The meeting noted that use of sites with open access may deter rather than encourage participation.

## **INTERDIVISIONAL PROJECTS**

2003-011-3-600 - A critical compendium of pesticide physical chemistry data

Report received after meeting.

2003-060-2-400 - Terminology on separation of macromolecules

Little activity reported. Active participation of task group members needed. ACD represented by Jandera and Davankov. Need to arrange joint meeting at GA, possibly informal and restricted to TG and ACD representatives. *{Action: KP to follow up with Polymer DP.}*

2004-017-1 Standardization of analytical approaches and Analytical capacity-building in Africa

Benson (TGC) will ask the ACD for advice on expertise, as required.

*{Action: DM to advise that he is ACD contact.}*

2004-021-1-300 - Reference methods, standards and applications of photoluminescence

Progressing well – clear subdivision of tasks and responsibilities noted.

### **INTERDIVISIONAL WORKING PARTY ON HARMONIZATION OF QUALITY ASSURANCE**

2000-033-1-500 - Assessment of uncertainty associated with soil sampling in agricultural, semi-natural, urban and contaminated environments (SOILSAMP)

Initial Project completed; report to appear PAC 2005. Extension of project requested by Italian counterpart. *{Action: KP to check details. Established that there is no financial obligation for the ACD}*

2001-009-1-500 - Revision in the international harmonised protocol for the proficiency testing of (chemical) analytical laboratories

Project has completed the public review stage

2001-010-3-500 - Metrological traceability of measurement results in chemistry

Extra meeting desired but this would require additional funding. No additional funds approved.

2003-004-1-500 - Interdisciplinary harmonised approach to metrological traceability of chemical measurement results

Completed – application for ICSU funding was unsuccessful  
No report received

### **SUBCOMMITTEE ON SOLUBILITY AND EQUILIBRIUM DATA**

2001-052-1-500 - completed and published in SDS Vol 80

2002-025-1-500 - Solubility data of compounds relevant to mobility of metals in the environment. Inorganic actinide compounds

No report received, nor for the Vienna meeting.

2002-031-1-500 - Solubility data of compounds relevant to mobility of metals in the environment. Alkaline earth metal carbonates

No report

2002-032-1-500 - Solubility data of compounds relevant to mobility of metals in the environment. Metal carbonates

Satisfactory progress

2002-033-1-500 - Solubility data related to oceanic salt systems. Part I - Binary systems containing sodium, potassium, and ammonium sulfate

Financial support requested – but no budget requested with project proposal.  
{Action: KP to consult H. Gamsjäger regarding possible support from book income/budget (see also -036, -037 later)}

2002-034-1-500 - Solubility data related to oceanic salt systems. Part II - magnesium chloride-water and calcium chloride-water and their mixtures

No report

2002-035-1-500 - Solubility data of compounds relevant to human health. Solubility of substances related to urolithiasis

No problems - satisfactory progress

2002-036-1-500 - Solubility data of compounds relevant to human health. Solubility of hydroxybenzoic acids and hydroxybenzoates

Funding sought - but no budget requested with project proposal. See above.

2002-037-1-500 - Solubility data of compounds relevant to human health. Solubility of halogenated aromatic hydrocarbons

Funding sought – but no budget requested with project proposal. See above.

2002-038-1-500 - Solubility data of compounds relevant to human health. Antibiotics: peptide antibiotics and macrocyclic lactone antibiotics

No report

2002-042-1-500 - Solubility data related to industrial processes. Lead sulfate

No report

2002-043-1-500 - Solubility data related to industrial processes. Carbon dioxide and the lower alkanes at pressures above 2 bar: methane to butane

No report

2002-044-1-500 - Solubility data related to industrial processes. Carbon dioxide in aqueous non-electrolyte solutions

Satisfactory progress

2002-045-1-500 - Solubility data related to industrial processes. Solids and liquids in supercritical carbon dioxide

The literature base for this project is expanding more rapidly than it can be reviewed.

2002-050-1-500 - Solubility data related to industrial processes. Acetonitrile: ternary and other multicomponent systems

Satisfactory progress. Task group meeting August 2005.

2003-018-1-500 - Mutual solubility of hydrocarbons and water (update of SDS Vol 37 & 38)

Satisfactory progress.

## **5. General points on projects and reports**

- a. Concern was expressed that some projects had become one-man operations. In such cases comments on final reports and reviews were being handled by the Chair and not referred back to the Task Group. The ACD could request that all the members of the TG should indicate their approval of the report when first submitted to the ACD and of any changes made on revision.
- b. It was decided to alter the due dates for reports to more closely match ACD meetings (either the GA or the even-year meetings). The reports should be submitted 1 month before the meetings at which they would be discussed

The schedule will become

Oct 04	(for Officers meeting)
June 05	(for GA)
Jan 06	(for full ACD meeting)
Oct 06	(for Officers meeting)
Jun 07	(for GA)

For the October meetings, the call for reports would be earlier; the reports would be circulated to the whole division for comments to be submitted before the Officer meetings (so the deadline would be 6 weeks before the meeting).

## **6. Project funding (October 2004 round).**

One project had been considered in the October funding ballot

- a. 2004- 005-2-500 Comparable pH measurements by metrological traceability (Camoos)

ACD members had been supportive of this project (9 responses with an average score 4.22 on a scale with max = 5)

Agreed to support from Division \$4000; Division I had agreed to support with \$1000, Division VII did not wish to be involved. Proposed that rest of budget should be sought from Project Committee. *{Action: KP to seek 'support in principle' for project from COCI - as they have no funding budget – and a contribution of \$1000 from Division VI}*

**7. Review of Projects 'in preparation'.** (see Appendix B)

- a. Oliveri - draft proposal written – Danzer, Ales, and Brynn Hibbert have reviewed - and supported \$700 budget. *{Action: KP to obtain external reviews}*
- b. Oman (2004-016-1). KP has assisted with project drafting - final form awaited.
- c. Matsumoto. Comparison of terms: Sample preparation/pre-concentration as applied to GMO. Project scope now combined with that of Zagatto. Application drafted but not submitted. Requires expansion of Task Group. In discussion RL indicated that interest in assay of GMO's as a review topic has diminished. RL will discuss this with the TG. Suggests that focus of project needs to change – application area needs broadening. *{Action: RL}*
- d. Metallomics (RL) – terminology being discussed – at FACS – (and Pittcon) - alternative terms in use in field – needs to approach task group members – before submitting project.
- e. Nuclear Analytical Techniques: RL to contact Chai re withdrawn project proposal.
- f. ICP collision cell - potential TG being approached by RL (6 confirmed) but a TGC not yet identified. *{Action: RL}*
- g. Metrology of selenium speciation in food supplements – (selenized yeast). RL identified a number of interested participants. Mester (AM) involved in this area and has agreed to chair the TG.
- h. Solid phase speciation analysis terminology and critical assessment of methodology (RL): - Ortega (Bordeaux) has agreed to Chair TG.

**8. Project submission process.**

- a. No problems noted in submission process.
- b. An inclusive approach to the review of Project Proposals by ACD members has not been fruitful. In future requests for reviews will be targeted, using the Division Teams where appropriate. All ACD members will see proposals at the time of funding decisions.

**9. Team structures and reports**

Team structure and Team performance were discussed.

- a. Concern that within some teams there is minimal communication



- b. KP to write to Team Leaders to clarify and emphasise the Team objectives, particularly that of collective responsibility.
- c. It is a problem that some ACD members are not involved in a project. Such involvement and experience is necessary to be effective in the assessment of new projects and oversight of existing projects. It was felt that all Division Committee members should be expected to be actively involved in a project.
- e. Teams need to be more proactive – e.g. to encourage external involvement in projects.
- f. Decided that the ACD should continue with Teams in preference to sub-committees as Teams are more flexible in membership and in adapting to changing priority areas.
- g. Suggested that there should be Team meetings (breakout sessions) at the GA – possibly Saturday lunchtime.

## Reports

- a. Communications (KP)
  - i. Contributions to *CI* arranged on the topic “Emerging needs in Developing countries”. These articles will run 2005-2006, one or two per issue. J-A Jönsson to coordinate.
  - ii. Publicity:  
The ACD web page has been improved with assistance from Fabienne Meyers.  
  
The potential use of the IUPAC web site for promotion of IUPAC products has been discussed with FM and this will be actively pursued. This could greatly benefit the ACD. At present the website is user-friendly for those working within the IUPAC system but is not intuitive for those with little experience of IUPAC systems or products.
  - iii. The preparation of Congress publicity leaflets on generic, inter-Divisional topics, and the funding of publication costs via the IUPAC publicity budget, will be considered. Possible topics include: ‘databases’, ‘critical evaluations of data’, ‘solution chemistry’.
  - iv. Journal editors will be encouraged to adopt use of IUPAC terminology. As a first step B. Hibbert has agreed to generate a list of relevant AC journals. The role of ACD members on editorial Boards, and the editorial policy of the journals, will then be established.
- b. Emerging Countries (JAJ). See a(i) above
- c. Critical Evaluation (HG)

Noted limited interaction with other Team members

- d. No formal reports received from the other Teams – *{Action: KP to follow up via a letter to all Team Leaders}*.

## 10. General Assembly - Beijing

- a. Programme for GA is on IUPAC website and has been circulated to members by email - Division Meetings on 13, 14th August 2005.
- b. Proposed to hold a mini symposium on Sunday am.

Officers discussed how to recruit speakers. Possible topic: - “Innovation in instrumentation”. If necessary could support attendance of speakers from Division budget. Would help if could involve participants in Congress – but Congress program will not be known before February.

*{Action: as a first step DM to approach one plenary speaker (Dovich) to ascertain feasibility of capturing Congress speakers}*

Aim is to use a seminar format to promote discussion on generic issues.

- c. Posters and papers at GA and Congress

Posters will be in place throughout the GA and Congress. At this time the number of poster places available for the ACD is not known. Individual Congress attendees can also offer posters, e.g. on IUPAC projects. Poster size: 90 cm wide 120 high (A0).

Suggested topics

- i.  $K_{ow}$  of pesticides. Project 2003-011- 03 (Wauchop is an invited speaker)
- ii. Orange book project (Moore)
- iii. MS Project (Murray attending)
- iv. Transition metal ion carbonates; project 2002—32-1 (Gamsjäger)
- v. Heavy metals in aqueous systems; project 199-050-1 (Sjöberg)
- vi. General ACD poster
- vii. Stability constants database (Powell)

Proposed that there should be a house style of posters – with logo  
*{Action: KP to check if Shaw and Murray attending}*

Possibilities for partially supporting the attendance of AM were explored.

- e. Inter-Divisional meetings.

A meeting of Divisions that have a focus on 'bio' -chemistry issues. Division I has a sub-committee on Biomolecular chemistry. Division III recently constituted a sub-committee on Biotechnology. Division V has an interest in Bioanalytical chemistry. {Action: RL}

WPQA: possible meeting with Div VII (Anders Kallner) - 'uncertainty, and traceability in clinical assays'. {Action: KP to contact Ales to organise}

WPQA: special meeting, 4-6 pm Sunday– (traceability project report )

WPQA: Possible meeting with John Malin (CHEM RAWN). {Action: KP}

CCE to visit Div V. RMS to consider what questions to be addressed. (15 min)

An informal meeting with Polymer Division re Chang project – (KP/RMS)

## 11. Division diary / action dates.

- a. Dates for reports: see earlier
- b. Dates of elections issued from Secretariat
- c. Teamwork schedule Feb, July Nov
- d. Meetings in each biennium

ACD	Feb Year 1
Officers	Nov Year 1
ACD GA	July/Aug Year 2

- e. Oct 31 and April 30 major funding round decisions (– last submission of final outline after review about 6 weeks before - Mid March and Mid Sept). – small or urgent decisions *ad hoc*

## 12. Teamwork

Next issue - No 9 to include: IUPAC GA note; participation in Congress encouraged by cheap Registration for GA members; Benson – IOCD project; new ACD member (Dominguez);

## 13. Elections and officers for 2006/2007

The following nominations/confirmations for Division Officers were noted

President	Ryzard Lobinski
Vice President	Ales Fajeglj
Secretary	Roger M. Smith

Elections will be required for 6 TM positions on the Committee (plus places vacated by election to Officers). Jönsson, Hibbert, Bonardi, are eligible to stand again. It was proposed that use of categories for nomination will be maintained. However, "clinical" will be redefined as "bioanalytical methods", and

“radiochemical” as “nuclear analysis” to avoid ambiguity and overlap with other Divisions.

DM reported that a Nominations Committee had nearly been finalised (subsequently reported to the Executive and approved:

IUPAC Members D. Moore Chairman, Umezawa (Tokyo)  
Non-IUPAC members  
Valcarcel (Cordoba), Korte (Dortmund ), Wise (NIST))

## 14 Report on Future of *SC-Database*

Currently managed by Academic Software (AS) using data generated by IUPAC. Currently contains 100K pages of data, 22,000 references. Over the next 3 years a transition in management from AS to IUPAC will be necessary as AS relinquishes its role.

A Division consultative group (Ingman, Moore, Powell) is working with AS and reported to the Bureau meeting. The Bureau identified *SC-Database* as a valuable resource for IUPAC and supported continuation of the database project under Division management. Data collection and verification would remain a responsibility of IUPAC Divisions, desirably to be an interdivisional activity. The Project should become self-funding. It approved ‘in principle’ the use of Project funds during the 3-year transition period to support continued data collection and the establishment of a business plan and management succession.

The initial steps would be (a) for IUPAC to take over publicity and advertising from AS by improved use of the website and publicity material. AS would initially retain marketing and sales; (b) use of a larger pool of data collectors and involvement of more experts in data verification (this to be discussed by KP with the SSED). The transfer of the remaining activities would occur in stages.

As a related issue the question of possible distribution via web access was discussed. Currently the IUPAC site is not secure but *SC-database* needed consideration alongside other IUPAC databases. Two models were possible: a charged site or an open site, depending on the financial viability and the IUPAC policy for dissemination of its resources.

## 15 Other business.

### a. Conference sponsorship

A list of IUPAC-sponsored conferences in analytical chemistry is given in Appendix C. Of these only ISSP is Division sponsored (initiated and organised by the SSED).

An application for IUPAC sponsorship (no funding) can be made by conference organisers. Financial support of a conference (5-10K) requires an application by the Division President. This can be for (a) support of meetings in emerging and developing countries or to support involvement from neighbouring emerging and developing countries even when conference is in a developed country; (b) new directions in chemistry.

These two applications have previously been separate steps. *{Subsequent to this meeting new guidelines and application forms indicate that a single-step process will be possible in future.}*

## **16. Date of Next meeting**

As part of IUPAC General Assembly meeting Beijing. Analytical Division meetings on 13th and 14th August 2005.

## Appendix 1 Review of current projects November 2004

Number	Title	Chairman	Status	ACD Decision and Actions
510/31/95	Nomenclature for X-ray emission spectroscopy	Gohshi	Uncertain	Document received subsequent to meeting. Division review completed January. Comments to author.
550/47/89	Electrochemical detection in flowing media	Tóth	Completed	PAC 2004, 76, 1119
550/62/97	Piezoelectric Chemical Sensors	Lindner	Completed	PAC 2004, 76, 1139
550/64/97	Non-specific sensor arrays	Vlasov	Sent to ICTNS August 2003	Minor revision requested by ICTNS
1999-044-2-500	Terminology for the description of peak asymmetry in chromatography	Jönsson	Little progress	Merge into 2001-063-1-500 as part of Orange book revision
1999-050-1-500	Chemical Speciation of Environmentally Significant Heavy metals and Inorganic Ligands	Sjöberg	6 articles expected	Mercury (II) is in press in PAC and synopsis version has appeared in Aust J. Chem.
2000-003-1-500 (000031/500/00)	Ionic Strength Corrections for Stability Constants	Pettit	Under further development. Almost completed.	Arrange for Review when complete.
2000-004-1-500 (000042/500/00)	IUPAC Stability Constants Database	Pettit	Progressing to plan	See notes on Bureau discussion regarding future
2001-001-2-500	Dimensionality in Analytical Chemistry".	Danzer	Received comments from ICTNS in December.	In press, PAC
2001-038-2-500	Recommendations for NMR Measurement of high pKa values and equilibrium constant in strongly basic solutions	Popov	Submitted for review	Delayed in Manuscript Central. Awaiting ICTNS review. <i>{Revision requested by ICTNS}</i>
2001-041-2-500	Recommendation for the Use of Countercurrent Chromatography in Analytical Chemistry	Spivakov	Completion of draft document predicted for January 2005	Kutner and RMS appointed as Division reviewers.
2001-055-1-500	Critical evaluation of stability constants of Metal Complexes of Complexones for Biomedical and Environmental Applications	Popov	Problems in reviewing process. Review documents not received by authors.	Manuscript with ICTNS. <i>{Minor revision requested}</i>
2001-063-1-500	Revision of terminology of separation science	Smith	Initially awaiting XML development but now proceeding without	In progress
2001-072-1-500	Low activation materials for fusion	Kolotov	Delays in preparing an English translation	Offer to assist with translation

	technology: State and Prospects			
2001-073-1-500	Determination of alpha-emitting radionuclides in diet	Nakahara	No report.	KP to follow up - project cancelled
2001-075-1-500	Compilation of $k_0$ and related data for NAA in the form of electronic databases	Kolotov	Completed	PAC 2004, 76, 1921
2002-002-2-500	Recent advances in electroanalytical techniques	Kutner	Slight delay in completion	In progress
2002-003-2-500	Performance Evaluation Criteria for Preparation and Measurement of Macro and Microfabricated Ion-Selective Electrodes	Umezawa	Almost ready for Division review	Reviewers: Division J-A Jönsson; External: Zbigiew.
2002-009-2-500	Optical spectrochemical analysis using waveguide and optical fibres	Gauglitz	Late report	No action -expects to finish by year end
2002-058-1-500	Definitions and fields of applications of the terms robust and rugged	Thorburn Burns	Near completion - to be submitted to Division	Request for additional budget not approved
2003-015-2-500	Terminology for radiochemistry	Bonardi	In progress. Good publicity	In progress
2003-037-1-500	Optical biosensors and bioprobes	Vo Dinh	No report	
2003-056-2-500	Standard definition of terms relating to mass spectrometry	Murray	Wiki version on internet	RL to review when submitted

## Interdivisional Projects

Number	Title	Chairman	Status	ACD Decision and Actions
2003-011-3-600 (Division VI)	A critical compendium of pesticide physical data	Wauchope	Report received	No action
2003-060-2-400 (Division VI)	Terminology on separation of macromolecules	Chang	Limited progress	Joint meeting at GA
2004-017-1-500 (Division V and Division)	Standardization of analytical approaches and analytical building capacity in Africa	Benson	On going	DM to consult
2004-021-1-300 (Division III)	Reference methods, standards and applications of photoluminescence	San Roman	On going	No action
2004-023-1-700 (Division VII)	Internationally agreed Terminology for observation in scientific communication	Pontet	On going	No action

## Reports from the Interdivisional WPQA

Number	Title	Chairman	Status	ACD Decision and Actions
2000-033-1-500	Assessment of uncertainty associated with soil sampling in agricultural, semi-urban, urban and contaminated environments (SOILSAMP)	Fajgelj	Part I complete (Terminology in soil sampling). To appear PAC 2005	KP to check on progress of documents
2001-009-1-500	Revision of the international harmonised protocol for the proficiency testing of (chemical) analytical laboratories	Fajgelj	Public review	No action
2001-010-3-500	Metrological traceability concept of chemical measurement results	De Bievre	Extra funding requested	Additional funding not approved
2003-004-1-500	Interdisciplinary harmonised approach to metrological traceability of chemical measurement results	De Bievre	Unsuccessful application for ICSU funding.	Completed



### Reports from Subcommittee on Solubility and Equilibrium Data

Number	Title	Chairman	Status	ACD Decision and Actions
2001-052-1-500 (previous 581/15/89)	Solubility of volatile and gaseous fluorides in all solvents	Clever	Solubility Data Series Vol 80	Completed
2001-085-1-500 (previous 583/34/92)	Azides, Cyanides, Cyanates, and Thiocyanates of Alkali Metals, Alkaline Earth Metals and Ammonium	Hála	In print, JPCRD to appear in NIST_IUPAC Solubility Data Series	?
2002-025-1-500	Solubilities of Inorganic Compounds of Actinides (except carbonates)	Hala	No report	HG has sent reminder
2002-031-1-500	Solubility data of compounds relevant to mobility of metals in the environment. Alkaline earth metal carbonates	Vanderdeelen	No report	HG has sent reminder
2002-032-1-500	Solubility data of compounds relevant to mobility of metals in the environment. Metal carbonates (Mn, Fe, Co, Ni, Cu, Zn, Ag, Cd, Hg, Pb)	Gamsjäger	on schedule	No action
2002-033-1-500	Solubility data related to oceanic salt systems Part I	Balarew	Progressing - budget requested	No allocation made
2002-034-1-500	Solubility data related to oceanic salt systems Part II	Vogt	No report	HG has sent reminder
2002-035-1-500	Solubility data of compounds relevant to human health. Solubility of substances related to urolithiasis	Königsberger	On going	No action
2002-036-1-500	Solubility data of compounds relevant to human health. Solubility of hydroxybenzoic acids and hydroxybenzoates	Goto and Miyamoto,	Progressing - budget requested	No allocation made
2002-037-1-500	Solubility data of compounds relevant to human health. Solubility of halogenated aromatic hydrocarbons	Makino, Goto and Goto	Progressing - but statistical problems budget requested	No allocation made
2002-038-1-500	Solubility data of compounds relevant to human health.	Lorimer	No report - no progress	No action

	Antibiotics: peptides antibiotics and macrocyclic lactones,			
2002-042-1-500	Solubility data related to industrial processes Lead sulphate	Lorimer	No report - no progress	No action
2002-043-1-500	Solubility data related to industrial processes Carbon dioxide and the lower alkanes at pressure above 2 bar methane to butane	Mather	No report	HG has sent reminder
2002-044-1-500	Solubility data related to industrial processes. Carbon dioxide in aqueous non-electrolyte solutions	Scharlin	Abstract to CI	No action
2002-045-1-500	Solubility data related to industrial processes. Solids and liquids in supercritical carbon dioxide	Scharlin	Progressing	No action
2002-050-1-500	Solubility data related to industrial processes; Acetonitrile: ternary and other multicomponent systems	Sazonov	Evaluation in progress	KP to check on meetings
2003-018-1-500	Mutual solubility of hydrocarbons with water	Maczynski	No comment	No action

## Appendix B Submitted and Proposed projects

Proposal Number	Project	Chairman	Status
2003-11-17 2004-004-1	Chemical speciation study of essential and toxic elements by NAA	Z. Chai:	Lacks focus – comments back to task group. Requires revision. Action: RL
2004-005-1	pH Measurement in complex matrices	Cameos	Supported by Division. Application to PC to be prepared.
2004-016-1	Definition and interpretation of the suspension effect in potentiometric measurements	Oman	Final project proposal awaited.
	Comparison of the terms: preconcentration/sample preparation as used in GMO analysis and in classical analysis:	Kazuko Matsumoto/ Elias Zagatto	In preparation. May need new focus. Action: RL.
	Terminology related to analytical chemistry of metal forms in biological systems: metallomics:	Ryszard Lobinski.	In preparation

## **Appendix C: IUPAC Sponsored Symposia in analytical chemistry**

International Symposium on Solubility Phenomena (ISSP)

Colloquium Spectroscopium Internationale XXXIV Antwerp, September 2005

International congress on analytical Chemistry and Chemical Analysis, Kiev, September 2005-01-02

Third Asia -Pacific Symposium on Radiochemistry (APSORC'05) Beijing October 2005

NAMLS-8 – 8<sup>th</sup> International Conference on nuclear analytical methods in the life sciences, in Brazil, Sept 05.