

**IUPAC Division of Chemistry and the Environment (DCE)
Divisional Committee (DC)**

**Meeting Minutes
9 – 10 August 2003
Ottawa, Canada**

Executive Summary

A total of eleven Division Committee members, one IUPAC Fellow, and four Young Observers participated in the 2004 meeting held at the University of Ottawa in connection with the IUPAC General Assembly. The progress and completion of existing projects was reviewed. A total of five projects have been completed since the 2002 meeting in Basel, and final reports are published or in-press. Two additional projects are at the final reporting stage. Seven ongoing projects are demonstrating good progress, but a decision was taken to appoint new project leaders for two other moribund projects. Two revised project proposals introduced last year were approved for immediate funding. Six new project proposals that have received positive external peer reviews were discussed. Two new projects were approved for immediate funding, two new projects were approved for funding pending receipt of slightly revised proposals, and two project proposals will be returned for substantial revision prior to future funding consideration. Ideas for future areas of interest for new project proposals were also identified, and a call for new project proposals with a deadline of receipt by February 2004 will be announced. Five new Titular Members were confirmed from the recent election, making a total of ten TMs for the next biennium. Ken Racke was appointed as new Division President, Werner Klein as Division Past-President, Pat Holland as Division Secretary, and Willie Peijnenburg as Division Secretary-Elect. Seven new Associate Members and six new National Representatives were also selected. The operation of the Division Subcommittees, project evaluation system, linkages with other international organizations, conference planning, communications, and future priorities were also discussed. The next meetings of the Division Committee will be 1) a phone conference to be scheduled during January, 2004 and 2) a full meeting to be scheduled during May, 2004 in the U.S. to follow the 11th IUPAC International Conference on Mycotoxins and Phycotoxins, planned for Bethesda, Maryland.

0. Attendance, Agenda, and Past Meeting Minutes

Werner Klein (Division President – DP)	Kenneth Racke (Division Vice-Pres. – VP)
Patrick Dysseler (TM)	Leo Klasinc (TM)
Willie Peijnenburg (TM)	Yehuda Shevah (TM)
Tania Tavares (TM)	Richard Cantrill (AM)
Ming Huang (AM)	Petr Fedotov (NR – Russia)
Edgard Resto (NR – Puerto Rico)	Gyorgy Horvai (IUPAC Fellow- Hungary)
Aminata Diasse-Sarr (Young Observer – Senegal)	N. Jayaraman (Young Observer – India)
Stuart James (Young Observer – UK)	Angela Wilson (Young Observer – USA)

Apologies: Patrick Holland (Division Secretary – DS), Elke Anklam (TM), Nicola Senesi (TM), Alan Felsot (AM), Don Wauchope (AM), Roy Harrison (NR – UK), Yong-Hwa Kim (NR – Korea).

The meeting noted with sadness the recent illness and passing of Junshi Miyamoto, a long-time contributor to the Division who most recently served as Senior Advisor on Problems of the Environment. An appreciation was offered for the many years of service by Junshi Miyamoto on behalf of IUPAC and the Division.

The minutes of the DC meeting held last year during August in Basel, Switzerland were accepted.

Action Item: DS to post 2002 DC meeting minutes on the IUPAC DCE web page.

The proposed agenda of topics and key expected results for the DC meeting in Ottawa were briefly reviewed and accepted. Ken Racke served as ad hoc secretary for the meeting in the absence of the DS with respect to preparation of the meeting minutes. The following meeting minutes are arranged topically rather than chronologically.

1. Introduction and Overview of DCE Activities

Based on his recent report to the Council (posted on the IUPAC DCE web site), DP Werner Klein introduced the work of the Division, and highlighted key changes and challenges as related to the mission of IUPAC and the DCE Terms of Reference (reproduced below as modified during 2001).

DCE Terms of Reference: Through its internationally recognized membership and project teams, the DCE will provide unbiased and timely authoritative reviews on the behavior of chemical compounds in food and the environment. The DCE intends to undertake both fundamental and applied chemical studies aimed at solving environmental problems and enhancing the quality of food. In this way DCE will contribute to global sustainable development.

Werner Klein noted that the objective of the DCE was not just to do science, but to do science in the service of mankind and to meet customer needs and expectations. The integration of basic environmental chemistry into the work of the Division appears to have been successful. Analytical standardization concerning oils and fats has played a long-standing role in the work of the DCE, but further discussion on how to strengthen efforts related to food chemistry and food safety is needed. Cooperation with other international organizations will continue to be critical for the future of the DCE, and Werner Klein noted a continuing need to maintain good communication and define future project areas for collaboration and external funding. The future success of the DCE will be highly tied to the quality and relevance of its projects, and the continued flow of new project ideas and proposals is most important. The role of the Division Subcommittees (SC) in helping define areas of interest and stimulating new project activities has been helpful, but the full potential has yet to be realized. Several DCE members noted the continuing challenge of reaching full effectiveness without the Commissions and adjusting to the new IUPAC system.

Ted Becker, IUPAC Secretary General, visited with the DC and highlighted some key aspects of overall IUPAC interest. He complimented the DCE regarding adaptation to the new project system, and noted that good allocation of Division funds had occurred. Overall IUPAC project spending has been slower than anticipated, and additional funds are available now for project initiation. Even though the DCE is close to full allocation of its 2002-2003 project budget, new project proposals should be forwarded to him via the IUPAC Secretariat. Ted Becker committed to a speedy (<1 month) evaluation and decision on new project funding in concert with the IUPAC Treasurer, Christoph Buxtorf. IUPAC also has funds now to support a very few highly innovative conferences in developing countries. Applications for such conferences must come directly from a DC, and may only be held in countries with an IUPAC National Adhering Organization (NAO) or Associate NAO. At least one IUPAC lecturer should be part of any such conference. Ted Becker noted that *Pure and Applied Chemistry* (PAC) was on the lookout for new reports and manuscripts, and a new peer review process for conference manuscripts had been instituted to ensure a high standard of quality. Such publication should be arranged with the PAC editors in advance of the conference. Ted Becker supported development of a closer working relationship between IUPAC and IOCD (International Organization for Chemical Sciences in Development), and endorsed the idea of a special (7th) AM position for the DCE DC to represent IOCD.

Peter Atkins of the Committee on Chemical Education (CCE) also visited with the DC, and encouraged collaborative efforts with the DCE. He noted that compilation of a roster of potential IUPAC lecturers,

especially those who already planned to travel to take part in a conference, would be helpful to have in potentially arranging for IUPAC guest lectureships and additional funding support.

2. Projects

The DC reviewed progress on existing projects, evaluated proposals for new projects and reached revision and funding decisions, and identified future areas of project interest.

2.1 Existing Projects

Number	Title	Leader	Status as of 9-Aug-2003	DCE Decisions and Actions
630/24/95	Solute movement in soils with potential for rapid by-pass movement	Koerdel	Final report scheduled for completion by Sep-2003, with publication planned for PAC.	DP needs to receive a copy of the final report and approve for publication.
1999-009-1	Pesticide Residues in Food – Acute Dietary Exposure	Hamilton	Report completed and approved by DP, and publication in-press at <i>Pest Manage. Sci.</i> with a summary to appear in PAC.	None required.
1999-010-1	Mycotoxin Methods for Developing Countries	Anklam	Final report prepared and forwarded to VP.	VP to forward final report to DP for review and approval. Project Leader to be requested to develop a publication and dissemination plan.
1999-013-2	In-situ Treatment of Polluted Soils	Mandelbaum	No progress.	DCE agreed to importance of topic and continuation under new leadership. Yehuda Shevah to identify a new project leader by Oct-10 and notify the DCE. DCE to receive a new timeline and project team from new project leader, and to notify the IUPAC Secretariat and old project leader of the change.
1999-014-2	Airborne & Remote Sensing of Water Quality	Dekker	No progress.	DCE agreed to importance of topic and continuation under new leadership. Yehuda Shevah to identify a new project leader by Oct-10 and notify the DCE. DCE to receive a new timeline and project team from new project leader, and to notify the IUPAC Secretariat and old project leader of the change.
1999-017-1	Regulatory Limits for Pesticide Residues in Water	Hamilton	Report completed, approved by DP, and published during 2003 in PAC.	None required.
1999-030-2	Workshop on Local Air Pollution in Developing Countries, China, 2001	Zhang	Successful workshop held, and abstracts distributed to participants. Collected plenary papers not accepted by PAC due to lack of pre-approval.	Project Leader to be requested by DCE to employ remaining project funds of \$1452 in further dissemination of the results of the project. Tania Tavares to develop a further dissemination plan in concert with the project leader.
1999-034-1	Local Radiation Balance: Influence of Aerosols	Slanina	Two reports completed and approved by DP. Publications by Zhang and Slanina in-press at PAC.	Project Leader to be requested by DCE to employ remaining project funds of \$544 in further dissemination of the results of the project. Tania Tavares to develop a further dissemination plan in concert with the

				project leader.
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2.1 Existing Projects (con.)

Number	Title	Leader	Status as of 9-Aug-2003	DCE Decisions and Actions
1999-041-1	Bioavailability of Xenobiotics in Soil	Katayama	Underway. Advanced draft for discussion Oct-2003. Targeted for completion during 2004.	None required.
1999-042-1	Int'l Workshop on Oils and Fats, Brasil, 2001	Lago	Workshop completed, and planning underway for next in the series (see 2002-011-1).	Remaining funds of \$3,063 to be used for dissemination of workshop outcomes and support of travel of scientists from developing countries to the next workshop.
2000-016-1	IUPAC-SCOPE Project on Endocrine Active Substances	Burger (in place of Miyamoto)	Successful conference held Nov-2002. Draft reports approved by DP, and to appear as a multi-volume issue of PAC during Nov-2003.	None required.
2001-022-1	Global Availability of Information on Agrochemicals	Racke	Underway. Detailed outline of work to be developed Oct-2003.	None required.
2001-023-1	Agrochemical Spray Drift Assessment and Mitigation	Felsot	Underway. First draft report planned for discussion Oct-2003.	None required.
2001-024-2	Impact of Transgenic Crops on Use of Agrochemicals and the Environment.	Kleter (in place of Kuiper)	Underway. Advanced draft report for discussion Oct-2003 and preliminary results for presentation at workshop. Additional Bureau funding secured Jan-2003.	None required.
2001-026-1	Use of Reference Soils for Testing Fate & Effects of Chemicals	Koerdel	Underway. First draft report planned for discussion Jan-2004.	DCE noted the need for further expansion of project team to include contributors outside of Europe, and will communicate this request to the Project Leader.
2001-039-1	Pest Management for Minor Crops: A Cooperative Global Approach	Wauchope	Underway. Worldwide discussion network established. First draft report for discussion Oct-2003, and preliminary results for presentation at workshop.	None required.
2002-046-1	Pesticides: Harmonization of Data Requirements and Evaluation	Kim	Workshop planned for Seoul, Korea during Oct-2003 to highlight results of 8 recent or ongoing IUPAC DCE projects for Pacific Region.	Additional spending of \$2000 had been approved by DP and VP. VP to present lecture on IUPAC-SCOPE endocrine project conclusions and recommendations on behalf of Junshi Miyamoto.
2002-062-1	Royalties from Wiley book series	Sensei	This fund is targeted to assisting further Wiley book projects.	DCE agreed \$6,413 in available funds should be devoted in part to newly proposed book project 2003-014-1 (see section 4.2 below).

2.1 Existing Projects (con.)

Post-meeting note: Leo Klasinc had noted that project 1999-33-1 (Glossary of Terms for Atmospheric Chemistry) had been abandoned by Project Leader Steve Schwartz. The project had previously been approved but no funding had been requested. Tomislav Cvitas, member of the ICTNS, has now been identified as a potential new project leader. A revised project form has been requested which designates the new project team leader, project team (to include Leo Klasinc), and proposed budget for future DCE funding consideration.

2.2 New and Revised Project Proposals

A call for new project proposals to be submitted by March 15, 2003 had been made via the August, 2002 DCE Basel meeting minutes and the Division newsletter that was circulated during November, 2002.

As a result, six new project proposals had been received and most had cleared the external peer review process. In addition, two project proposals discussed at the Basel DCE meeting had been revised and resubmitted for consideration.

Number	Title	Leader	Status as of 9-Aug-2003	Revisions Needed	DCE Decisions and Actions
2002-013-2	Method Validation for Trace Elements in Oil-Fat by ICP	Cantrill	Revised proposal received.	No.	Project approved; \$5000 allocated. DC to notify IUPAC Secretariat and Project Leader.
2002-011-1	Int'l Workshop on Fats, Oils and Oilseeds Analysis and Production, Tunisia, Nov-2004	Dysseler	Revised proposal received.	Proposal was revised to clarify the specific budget request.	Project approved; \$6000 allocated. DC to notify IUPAC Secretariat and Project Leader. Project team encouraged to develop additional linkages/co-sponsorship (e.g., IOCD).
2003-011-2	A Critical Compendium of Pesticide Physical Chemical Data	Wauchope	New proposal received. External peer reviews received.	Revised proposal requested to address peer reviewer comments. Should incorporate and confirm joint sponsorship by Analytical Chem Division (ACD). Unlink from general assembly. Correct explanation on funding	Project approved pending receipt of revised proposal, with allocation of \$8000. <i>Post-meeting note: David Moore, DP of ACD, has confirmed interest. Revised proposal with David Shaw as Project Co-Leader should be developed for DCE and ACD approval by end of Oct-2003. Inter-division funds also to be proposed by DCE & ACD DPs.</i>
2003-012-1	Guidance for Designing Field Surveys and Monitoring Programs to Ensure Compliance with Legal Limits	Ambrus	New proposal received. External peer reviews received.	Revised proposal to be requested following additional external peer reviews. Need to clarify expected outcome, add 1 or more industry scientist on project team, and address other DCE concerns.	Project not approved for funding, but to be reconsidered in future pending receipt of a revised proposal. SC Chair to arrange for additional peer reviews and to notify proposed Project Leader.

2.2 New and Revised Project Proposals (con.)

Number	Title	Leader	Status as of 9-Aug-2003	Revisions Needed	DCE Decisions and Actions
2003-013-1	Crop protection chemistry in Latin America	Carazo	New proposal received. External peer reviews received.	Updated project dissemination plan required (e.g., published proceedings or report).	Project approved; \$9000 allocated. DC to notify IUPAC Secretariat and Project Leader.
2003-014-1	Fractal Structures and Processes in Environmental Systems	Senesi	New proposal received. External peer reviews received.	Revised proposal to be requested to address peer review comments. A more detailed outline is also required regarding the contents of proposed chapters, and it will be important to include some practical recommendations.	Project approved pending receipt of revised proposal, with allocation of \$8500 of new funds plus funds available from Wiley Book Royalty fund 2002-062. DP and VP to notify IUPAC Secretariat and Project Leader.
2003-016-1	Integrating Environmental Exposure Pathways for Medicinal Products	Herrchen	New proposal received. External peer reviews awaited.	Pending receipt of peer reviews, a revised proposal to be requested to address reviewer and DCE comments. Need to develop a more balanced project team to include additional non-European and industry scientists. Some clarification on what type of work is to be done and the specific outcome is needed.	Project approved pending receipt of revised proposal, with allocation of \$5,700. DC to obtain external peer reviews from the IUPAC Secretariat and communicate to the Project Leader.
2003-017-1	Remediation Technologies for Removal of Arsenic from Water and Wastewater	Garellick	New proposal received. External peer reviews received.	A revised proposal to be requested to address reviewer and DCE comments. Need identification of an international project team, identification of matching funding, consideration of a workshop to communicate results to key customers in developing countries. WHO involvement to be considered (e.g., Caussy).	Project not approved for funding, but to be reconsidered pending receipt of a revised proposal with a reduced funding request (e.g., \$8000) that does not include consultancy.

2.3 Future Project Ideas

There were a number of ideas discussed regarding new projects or project areas, and the DC was open to receipt of additional proposals. A call for new project proposals will be circulated with the DCE minutes and DC newsletter, with receipt of new proposals requested by February, 2004. Some of the new project topics discussed and resulting action items are listed below:

Topic	Description and Potential Scope	Action Steps and Champion(s)
Biophysico-chemical Interfacial Reactions in the Terrestrial Ecosystem	Series of books could be envisioned, with volumes on metals and metalloids, Organic compounds, and restoration technology and impacts on ecosystem health.	Ming Huang and Biophysico-Chemistry SC to consider development of a future proposal.
Chemistry of Genetically-Modified Organisms	Would focus on the chemistry of changes occurring in GMO organisms and/or food products. GMO activities are often losing focus on the basic chemistry aspects as related to safety assessment, secondary metabolites, etc,... Potential collaboration with IUPAC Division of Chemistry and Human Health, BIO/Europa-BIO, CropLife International, FAO, WHO.	Werner Klein to circulate a 1-page draft problem statement that had been developed with Junshi Miyamoto. Initiation of such a project might require a couple of years of preparatory work as well as identification of a project champion with considerable effort to devote.
Acrylamide in Food	Chemistry and food residue behavior. Potential collaboration with an ongoing European Commission proposal/workshop.	Patrick Dysseler and Food Chemistry SC to consider development of a future proposal.
Artifacts in Particle Sampling of Semi-Volatile Compounds	Global changes. Jack Slanina to be project leader, Tania to be vice-chairman. Have a list of 12 key people. Want at least 1 workshop, possibly a second one. Cost for first workshop \$25,000, and asking IUPAC for \$15,000. Change word "recommendations".	Jack Slanina has been proposed as a Project Leader, and Tania Tavares has developed a draft project proposal to be forwarded to the IUPAC Secretariat for initiation of the peer review process.
Air Pollution Modeling	Book to include chapters on modeling as related to environmental assessment and management (e.g., Kluwer Press).	Ole Hertel and Environmental Compartment SC to consider development of a future proposal.
POPs Classification Programs and Risk Assessment Considerations	Implementation of treaties and protocols related to persistent organic pollutants appear to be relying upon scientific evaluations employing simplistic classification systems and screening test results. There is a need to consider how the principles of risk assessment and risk management can best be incorporated into the process to avoid arbitrary and unscientific decisions.	Ken Racke to circulate a 1-page draft problem statement for review and comment by DCE and SC members.
Mitigation of Ballast Water Pollution	Would address problems related to chemical and biological pollution from discharge of ship ballast water, including mitigation and treatment options.	Leo Klasinc and Environmental Compartment SC to consider development of a future proposal.
Auto-catalytic processes		Leo Klasinc and Environmental Compartment SC to consider development of a future proposal.
Ozone Behavior and Toxicity		Leo Klasinc and Environmental Compartment SC to consider development of a future proposal.
Evaluation of Research Projects and Programs	IUPAC has been periodically requested to evaluate the scientific quality and suitability of project or program proposals (e.g., from Eastern European	Werner Klein to discuss suitability of this type of activity with the IUPAC President as well as the other DP's

	countries). A policy decision on whether IUPAC should be participating in such an activity is needed.	and/or Bureau.
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2.4. Project Review Process

Discussion of the project system and potential areas of improvement were discussed. A slightly revised project evaluation flowchart is appended below.

- Submission Deadline - The designation of a project proposal submission deadline appears to have helped stimulate the six new project proposals received, and should be employed in the future. It was agreed that reaching quick funding decisions on proposals that trickle in at a time when extra funds appear available should generally be avoided. Being able to consider multiple projects at a time would appear a good way for the DC to ensure a measure of discrimination and prioritization is occurring.
- Source of Proposals - Project proposals are still primarily coming from those with some IUPAC affiliation, and a means of more broadly soliciting proposals should be considered. Need for interdivisional projects: when proposals come in to the President, a decision is made whether to route to more than one division. Request for more money can occur.
- Peer Reviews - Coordination of project proposal reviews and communication within the DC needs improvement. Not all project proposals are being circulated, and few if any of the external peer review comments have been circulated. It was also noted that some proposals are only circulating to “friendly” external peer reviewers suggested in the proposal, so the question of the unbiased nature of the peer reviews arises. Maintenance of a roster of independent peer reviewers was suggested, and the possible role of the IUPAC Secretariat was raised. The expertise represented in the SC’s should also be fully utilized.
- Progress Reports - A better system of regularly tracking progress for ongoing projects is also needed. The role of the Division Subcommittees and DS should be clarified to avoid redundant queries to project leaders. It was agreed that simple updates focused on a set of key questions (e.g., progress toward key project milestones) should be received twice a year (e.g., end of year and immediately preceding the DC meeting). Requests for project updates should come from the DS with a copy of the query to the relevant SC Chair. Automated project tracking systems such as employed by the U.S. National Science Foundation should also be investigated. A system of posting/circulating project updates should also be arranged.
- Presidential Approval - Werner Klein noted that in his role as DP he is receiving copies of final reports to review and approve prior to publication. Depending on the subject, the DP may also seek the views of other DC members in this approval process.
- New Call for Proposals - It was agreed that a call for new project proposals would be issued around October 1, 2003, with a tentative deadline for receipt by February, 2004 (1st or 15th suggested).

3. International Linkages and Cooperation

It was agreed that maintaining good communication and collaboration with key international organizations was important to the future of DCE activities. Such linkages serve as important avenues for dissemination of IUPAC project conclusions and recommendations, for identification of new project areas, and for recruitment of project team members. To this end, designating one or more DCE members as liaison with important international organizations was seen as desirable, although the expectations and role description of such a liaison need to be better identified. The following is a listing of active and desired DCE linkages, both informal (i.e., maintained at DC level) and formal (i.e., officially listed in IUPAC Handbook under “IUPAC Representatives on Other Organizations”). DS to provide a listing of the formal representatives and rationale for involvement to the IUPAC Secretariat by October 10, 2003 for inclusion in the future IUPAC Handbook.

Formal Representatives

- Codex Committee on Fats and Oils (CCFO) – Patrick Dysseler
- Codex Committee on Measuring, Analysis, and Sampling (CCMAS) - Richard Cantrill
- Codex Committee on Pesticide Residues (CCPR) - Kenneth Racke
- ICSU Committee on Oceanic Research (SCOR) - David Turner
- ICSU Scientific Committee on Problems of the Environment (SCOPE) – Werner Klein
- Intergovernmental Forum on Chemical Safety (IFCS) – Werner Klein
- International Organization for Chemistry in Development (IOCD) – Walter Benson
- International Union of Soil Sciences – Ming Huang

Informal Representatives

- American Chemical Society, Agrochemicals Division – Kenneth Racke
- American Chemical Society, Environmental Chemistry Division – Angela Wilson
- Codex Committee Food Additives and Contaminants (CCFAC) - To be developed
- Committee for European Normalization (CEN) - Patrick Dysseler
- European Science Foundation (ESF) - Leo Klasinc
- FAO/WHO Joint Evaluation Committee on Food Additives and Contaminants (JECFA) – Richard Cantrill
- FAO/WHO Joint Meeting on Pesticide Residues (JMPR) – Denis Hamilton
- International Association of Environmental Analytical Chemistry – Tania Tavares
- International Association of Plant Protection Societies (IAPPS) – Kenneth Racke
- International Atomic Energy Agency (IAEA) - To be developed
- International Dairy Federation (IDF) - Patrick Dysseler
- Joint Research Center for the EU – Elke Anklam
- National Center for Atmospheric Research (NCAR) - Leo Klasinc
- Royal Society of Chemistry (UK) – To be developed
- Society of Environmental Toxicology and Chemistry (SETAC) – Willie Peijnenberg
- UNEP, Persistent Organic Pollutants – Tania Tavares
- UNEP, Program for Protection of the Mediterranean – Leo Klasinc
- WHO Inter-Governmental Program on Chemical Safety (IPCS) To be developed
- World Meteorological Organization (WMO) - Tania Tavares

Werner Klein noted that representatives of IOCD (International Organization of Chemistry in Development) had recently contacted IUPAC concerning collaboration that was supposed to occur as a result of a 1993 agreement signed by the two organizations. Active connection had been lost due to the IUPAC reorganization, and there was a desire to reestablish cooperation with respect to improving the capacity of chemists in developing countries for monitoring of air, water, soil, and food. This cooperation mainly involves regional workshops and lectureships, with a strong emphasis on African countries. The DC agreed to the desirability of reestablishing the IUPAC-IOCD collaboration within the new IUPAC project system, and a first step was seen as appointment of Walter Benson of IOCD as a special (7th) Associate Member of the DC. This would directly tie the organizations together at the idea and planning stages. Werner Klein will meet with the IOCD Executive Director Robert Maybury to confirm this plan. DS to obtain a copy of the 1993 IUPAC-IOCD agreement from the IUPAC Secretariat.

4. Subcommittees

Four Division Subcommittees (SC) were formed during 2001 to carry on some of the important functions of the previous Commissions as noted in the Brisbane DC meeting notes (posted on the IUPAC web site). It was agreed to continue with these same SC for the next biennium, and confirmation

of chairmanship (to be DC TM or AM) and revised membership listings for 2004-2005 are due to the DS by October 10, 2003 so that they can be listed in the IUPAC Handbook.

- Subcommittee on Food Chemistry – SC Chair Patrick Dysseler tabled a brief report of activities (copy appended). Members are active with several international organizations (e.g., Codex), and there is a continuing need to cultivate such linkages. A need to revitalize membership and activities of the SC was noted in order to avoid losing this area of long-standing IUPAC interest. New project proposals are required in the future. It will be important also to highlight key SC accomplishments. Patrick agreed to coordinate with Elke Anklam and other SC members in confirming a chair and revised membership listing.
- Subcommittee on Chemistry of Environmental Compartments – SC Chair Yehuda Shevah tabled a brief report of activities (copy appended). Members of the SC have been quite active, and work on a number of projects (20+) during the past couple of years was noted. New project proposals have also been considered or advanced, and additional proposals are under development. Yehuda agreed to coordinate with SC members in confirming a chair and revised membership listing. In addition, a proposal for the two new project leaders to assume leadership of the moribund projects will be provided at that time.
- Advisory Committee on Crop Protection Chemistry – SC Chair Ken Racke tabled a brief report of activities (copy appended). Members of the SC have been quite active with both projects and conference/workshop activities during the past two years. In addition, several new project proposals had been advanced. The SC will meet during October, 2003 in conjunction with a workshop planned for Seoul, Korea. Ken agreed to coordinate with SC members in confirming a chair and revised membership listing.
- Subcommittee on Biophysico-Chemical Processes in Environmental Systems – SC Chair Nicola Senesi was unable to attend, and in his absence DP and VP asked Ming Huang to provide an oral report of SC activities. Three books have been published recently (iron in seawater, in-situ biomonitoring, soil/microbe interactions), one is in-press (biophysical/chemical interactions), and one new proposals (fractals) has been advanced. Although the Fundamental Environmental Chemistry Commission was quite active in the past, restructuring has greatly diminished activities and communications. New project proposals and ways of coordinating activities need to be considered. Ming Huang agreed to assist SC Chair Nicola Senesi in coordinating with other SC members to confirm a chair and revised membership listing.

5. Communications

A brief discussion of Division communications occurred. It was agreed that the DCE newsletter circulated last year was helpful, and a future edition (perhaps shorter) by the end of the year was desired. In addition to current circulation, copies could also be forwarded to IUPAC NAO's. A deadline of contributions to the newsletter of October 15, 2003 was proposed. It was agreed that the DS should coordinate the newsletter process.

Ideas regarding upgrading of the DCE web site were discussed. The current site contains copies of DC meeting minutes and links to information on projects and members. All other information is accessed via the former Commission web pages. Restructuring of the organization of the site to fit with the new SC structure was agreed. Adding a list of important external web site linkages is also desired. Development of a listing of DCE expertise (e.g., short biography of each DC member) was viewed as useful. Posting of the Division Newsletter on the web site was encouraged. Regarding SC activities, it was agreed that posting updated SC reports on the DCE web site would be useful. To maintain quality and consistency of the DCE web site, it was suggested that all contributions flow through the DS as an

intermediate step prior to submission to the IUPAC Secretariat. It was agreed that future redesign of the DCE web site should be coordinated by the DP, DS, and DSE.

To aid efforts at publicizing the work of the Division and maintaining good communications (e.g., with NAOs, at IUPAC-sponsored conferences), development of a Division brochure was discussed. It was noted that many organizations use such brochures (e.g., tri-fold), and being able to disseminate a very short synopsis could be very beneficial. Ken Racke indicated that a prototype had been developed to support the work of the recently concluded Nominating Committee (copy appended), and he agreed to work with the DS and DSE in development of a refined brochure.

Finally, the meeting noted a continuing need to encourage publication in *Chemistry International* of short reports on recently concluded projects, conferences, and outcomes of international meetings at which IUPAC was represented by a member of the DCE.

6. Conferences

IUPAC policy concerning the role and mechanism of sponsorship of conferences has continued to evolve during the past couple of years. Although conferences had been discouraged somewhat in the past (at least the funding aspect), the recently revised IUPAC conference guidelines (copy appended) seem to provide new opportunities. The DC agreed that future conference proposals involving a request for DCE funding should proceed through the IUPAC project process. Formal conference proposals for general IUPAC sponsorship (i.e., generally no funding) should be handled separately, and not mixed with project proposals (e.g., should not submit simultaneously for IUPAC consideration both a project proposal and a conference proposal application form). It should be noted that IUPAC has established a separate, small budget for supporting a very few highly innovative conferences dealing with new areas of chemistry and/or held in developing countries. If an IUPAC conference proposal is rejected by the IUPAC process, a DCE-level project may still be considered. The DC also agreed that having some specific Division guidelines regarding conferences and workshops would be helpful, and Kenneth Racke agreed to circulate an initial proposal to stimulate further discussion.

Long-standing IUPAC-endorsed conferences of interest to the Division and which should be encouraged for continuation include the International Symposium on Mycotoxins and Phycotoxins (11th planned for Bethesda, U.S. during 2004; future plans unknown) and the International Congress on Pesticide Chemistry (11th planned for Kobe, Japan during 2006; ideas for 2010 include Australia and U.S.). The more recently conceived regional pesticide workshops (4th planned for Seoul, Korea during 2003; 5th planned for San Jose, Costa Rica during 2005) and oils and fats (2nd planned for Tunisia during 2004) were also noted. It was agreed that each of the DCE Subcommittees should be encouraged to be accountable for long-range planning of these existing and also new conferences, especially as a means of disseminating IUPAC project outcomes.

7. Budget

Ken Racke circulated a copy of the 2002-2003 biennial budget report received from the IUPAC Secretariat, and a copy is appended below (note: includes also projects and funds approved from previous biennia). The approved DCE operating budget of \$68,000 had been divided between \$17,000 for administration and \$51,000 for projects. Nearly the entire administrative budget has been expended. Regarding project funds, \$8,000 of the originally approved funds had not yet been allocated. Some additional project funds had also been obtained, and this included an extra \$10,000 from the IUPAC Project Committee assigned to 2000-024-2 (note: still to be reflected in a revision to the appended IUPAC budget). In addition, spending of funds allocated for approved projects has been slower than anticipated, as has been experienced across the entire IUPAC project system. A strong message from the IUPAC leadership has been that project funding is not a limitation at present, and extra money is

available now for new projects. Therefore, the DC agreed to advance the new projects agreed for approval as soon as possible, with the understanding that some funds might be drawn from the surplus IUPAC Project Committee funds and some from the 2004-2005 DCE biennial allocation.

Although the 2004-2005 DCE budget has not yet been approved, it was understood that a similar level of funding would be available. Thus, the DC agreed to allocate \$17,000 once again for administrative expenses (primarily for supporting the 2004 DC meeting) and reserve \$51,000 for new projects. Since it was unclear how funding for the newly approved projects would be tracked (2002-2003 or 2004-2005 biennium), it will be important for the DC to review budget status once again during early 2004.

As of 8 July 2003				
Projects: Jan '99 - YTD				
DC: Current Biennium				
	Expense	Budget	Over/(Under) Budget	% of Budget
600-Environmental				
DC	16,328	17,000	(672)	96%
Projects				
1999-009-1-600 Hamilton	1,885	3,000	(1,115)	63%
1999-010-1-600 Anklam	8,163	8,000	163	102%
1999-013-2-600 Mandelbaur	-	5,000	(5,000)	0%
1999-014-2-600 Dekker	745	5,000	(4,255)	15%
1999-017-1-600 Hamilton	4,801	4,000	801	120%
1999-026-1-600 Wong	6,643	6,000	643	111%
1999-030-2-600 Zhang	4,048	5,500	(1,452)	74%
1999-031-1-600 Van Grieken	5,000	5,000	-	100%
1999-033-1-600 Schwartz	-	-	-	0%
1999-034-1-600 Slanina	4,456	5,000	(544)	89%
1999-041-1-600 Katayama	1,362	5,500	(4,138)	25%
1999-042-1-600 Lago	2,937	6,000	(3,063)	49%
2000-016-1-600 Miyamoto	25,000	25,000	-	100%
2001-022-1-600 Racke	-	6,000	(6,000)	0%
2001-023-1-600 Felsot	-	6,000	(6,000)	0%
2001-024-2-600 Kleter	2,451	10,000	(7,549)	25%
2001-026-1-600 Koerdel	-	6,000	(6,000)	0%
2001-039-1-600 Wauchope	4,807	10,000	(5,193)	48%
2002-046-1-600 Kim	5,000	5,000	-	100%
2002-062-1-600 Senesi	802	7,215	(6,413)	11%

8. Membership

As acting Nominating Committee Chair, Kenneth Racke reported on outcomes of the recent election of Titular Members (TM). Five new Titular Members were confirmed by the recent election, making a total of ten TMs for the next biennium. Ken Racke was appointed as new Division President, Werner Klein as Division Past-President, Pat Holland as Division Secretary, and Willie Peijnenberg as Division Secretary-Elect. It was anticipated that Pat Holland would handle official Division Secretary (DS) responsibilities for the 2004-2005 biennium with Willie Peijnenberg assisting during that time and assuming full DS responsibilities for the 2006-2007 biennium. Seven new Associate Members (AM) and six new National Representatives (NR) were also selected, and an effort was made to provide balance from a regional and disciplinary standpoint. Allocation of the 7th AM (most Divisions limited to 6 AM) was confirmed with IUPAC Secretary General Ted Becker. A special request would be made via the IUPAC Secretariat and NAOs to confirm appointment of Tania Tavares as NR for Brazil and continued participation of Edgard Resto as NR for Puerto Rico. A listing of the proposed DCE DC membership for

the 2004-2005 biennium appears below, and Kenneth Racke will communicate the listing to the IUPAC Secretariat so that IUPAC Bureau approval may occur during the Ottawa GA.

Titular Members

Kenneth D. Racke (DP)	USA	kracke@dow.com
Werner Klein (DPP)	Germany	profklein@iuct.fhg.de
Patrick Holland (DS)	New Zealand	Patrick.holland@cawthron.org.nz
Elke Anklam	Belgium	elke.anklam@cec.eu.int
Patrick Dysseleer	Belgium	dysseleer@meurice.heldb.be
Leo Klasinc	Croatia	klasinc@joker.irb.hr
Laura McConnell	USA	McconneL@ba.ars.usda.gov
Willie Peijnenburg (DSE)#	Netherlands	wjgm.peijnenburg@rivm.nl
Nicola Senesi	Italy	senesi@agr.uniba.it
Donald Wauchope	USA	don@tifton.usda.gov

#Division Secretary-Elect

Associate Members

Walter Benson	USA	Wbenson270@aol.com
Richard Cantrill	USA	rcantril@aocs.org
Ole Hertel	Denmark	Ole.Hertel@dmu.dk
Pan Ming Huang	Canada	huangp@sask.usask.ca
Werner Kördel	Germany	Koerdel@iuct.fhg.de
Yehuda Shevah	Israel	Tahalcmp@netvision.net.il
Keiji Tanaka	Japan	tkeiji@yasu.sankyo.co.jp

National Representatives

Petr Fedotov	Russia	Ncrc@geokhi.ru
Yong-Hwa Kim	Korea	yhkim@kitox.re.kr
Melissa Fitzgerald	Australia	melissa.fitzgerald@agric.nsw.gov.au
Sirpe Herve	Finland	Sirpa.Herve@ymparisto.fi
Edgard Resto	Puerto Rico	restoe@starmedia.com
Tania Tavares	Brasil	ttavares@ufba.br

Subcommittees and Chairs*

Biophysico-Chemical Processes in Environmental Systems	Nicola Senesi
Chemistry of Environmental Compartments	Yehuda Shevah
Crop Protection Chemistry	Kenneth Racke
Food Chemistry	Patrick Dysseleer

*May be revised during October, 2003. Revisions and a complete list of subcommittee members to be forwarded to the DCE DS by October 10, 2003.

9. Future Division Committee Meetings

2004 – Phone conference to be organized ~January by Kenneth Racke. Target 12:00 GMT. Possible topics include progress on action items from Ottawa meeting, introduction of new members, approved budget distribution, DS/DSE division of responsibilities, funding of new/revised project proposals, DCE web site revision, long-range strategy considerations, and planning for 2004 meeting.

2004 – The DC reviewed several possibilities, and agreed to meet May 22-23 (May 15-16 2nd choice) in the U.S. in association with the 11th IUPAC International Symposium on Mycotoxins and Phycotoxins in Bethesda, Maryland (May 17-21). Specific site and host to be determined, but possibilities include the greater Washington, DC area of Maryland and Virginia. If required, alternate meeting arrangements for Belgium, France, or Italy to be considered. Key topics for DC discussion/decisions will include new projects proposals, subcommittee operation and optimization, food chemistry program, biophysico-chemistry program, new nominating committee, confirmation of IOCD cooperation, long-range strategy.

2005 – The DC will meet in conjunction with the IUPAC General Assembly planned for Beijing, China during August 10-12.

2006 – Site to be determined. Possibly in conjunction with an IUPAC-sponsored workshop. Brazil and Croatia suggested as possibilities.

2007 – The DC will meet in conjunction with the IUPAC General Assembly, for which a site is yet to be finalized (Turin, Italy has been proposed).

10. Attachments

- Copies of DCE SC Reports
- DCE Project Review System Revisions
- Draft Version of DCE Division Brochure
- Copy of Draft IUPAC Conference Policy