

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF 64th BUREAU MEETING

Lisbon University, Portugal: 12th August 1993

Present: Prof. G. den Boef (Chairman), Prof. M. T. Beck, Prof. R. D. Brown, Prof. A. Chakravorty, Prof. G. Modena, Prof. J. M. Ward, Prof. I. Wadsö, Prof. K. I. Zamaraev (Elected Members); Prof. R. A. Alberty, Prof. K. L. Komarek, Prof. N. J. Leonard, Prof. W. Heitz, Prof. A. Hulanicki, Dr. P. S. Steyn, Prof. H. P. Lehmann, Prof. J. G. Topliss (Division/Section Presidents); Prof. A. E. Fischli (Chairman, Committee on Chemistry and Industry), Dr. A. Hayes (Chairman, CHEMRAWN Committee)

Absent: Prof. A. J. Bard, Dr. Mary Good, Prof. W.-Y. Huang, Prof. S. Itō, Prof. Y. P. Je annin, Prof. J. Jortner, Prof. H. A. Staab (Elected Members)

In Attendance: Prof. J. W. Lorimer, Prof. L. Sydnes, Prof. Cunhao Zhang (Members Elect); Prof. K. Kuchitsu, Prof. J. Economy (Division Presidents Elect); Dr. M. Williams (Executive Secretary), Miss A. Troughton (Deputy Executive Secretary)

9/93 INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

In the absence of the President, Vice-President, and Past-President, all of whom had already left Lisbon (but had apologized for their non-attendance, as had Prof. Jortner), the Secretary General chaired the meeting (Statute 6.22). Prof. den Boef welcomed as observers some Bureau Members and Division Presidents elected to serve from the start of 1994.

The agenda drawn up by the Executive Secretary was approved.

10/93 ELECTION OF THREE EXECUTIVE COMMITTEE MEMBERS

The Chairman said that, in principle (Statute 8.2), the three vacancies in the Executive Committee from the start of 1994 should be filled by candidates elected by the new Bureau at that time. In order to avoid such a complication, the current Officers of the Union recommended that the existing Bureau should fill the vacancies now, but with at least one vacancy to be filled by a Bureau Member elected to serve from the start of 1994. The Officers proposed as candidates, Prof. Brown, Dr. Eaton, and Prof. Jortner. The recommendation and proposal were approved by the Bureau. In addition Prof. Modena was nominated as a candidate by Prof. Wadsö, and in a written and secret ballot:

Prof. R. D. Brown	16
Dr. D. F. Eaton	17
Prof. J. Jortner	16
Prof. G. Modena	5
(total voting 18: Profs. Ward and Zamaraev acted as Tellers)	

Prof. Brown, Dr. Eaton, and Prof. Jortner were declared elected to fill the three vacancies.

11/93 APPROVAL OF NEW MEMBERS OF DIVISION/SECTION COMMITTEES AND COMMISSIONS

Subject to detailed checking by the Deputy Executive Secretary on return to the Secretariat in Oxford, the Bureau resolved that:

- (i) the nominations in Appendix A for new Members of Division/Section Committees should be approved, the terms of service to be four years (Bylaw 4.103);
- (ii) the nominations in Appendix A for new Titular and Associate Members of Commissions should be approved, the terms of service to be four years (Bylaw 4.304);
- (iii) the proposals in Appendix A for re-election of Titular and Associate Members of Commissions for a further two or four years in the same category of membership (Bylaw 4.304) should be approved;
- (iv) the proposals in Appendix A for new Officers of Commissions (Bylaw 4.303) should be approved;
- (v) in order to expedite their work programmes, an increase in the number of Associate Members above that of Titular Members should be allowed (Bylaw 4.304) until 1995 for Commissions I.2 (to 12), I.3 (to 7), I.6 (to 8), II.1 (to 8), II.3 (to 10), III.1 (to 10), IV.2 (to 11), V.2 (to 12), V.4 (to 9), V.5 (to 12), V.6 (to 8), V.7 (to 7), V.8 (to 12), V.9 (to 9), V.10 (to 6), VI.1 (to 7), VI.4 (to 10), V.5 (to 11);
- (vi) for exceptional reasons (to provide theoretical expertise for some projects) proposed by Prof. Alberty, the maximum statutory term of service should be extended until 1995 as a Titular Member for Dr. M. B. Ewing on Commission I.2;
- (vii) for exceptional reasons (to provide data expertise for some environmental projects and because of his involvement with other international organizations) proposed by Prof. Alberty, the maximum statutory term of service should be extended until 1995 as an Associate Member for Prof. I. L. Khodakovsky on Commission I.2;
- (viii) for exceptional reasons (to provide aqueous phase chemical expertise for a new project on aerosols) proposed by Prof. Alberty, the maximum statutory term of service should be further extended until 1995 as an Associate Member for Prof. L. I. Elding on Commission I.4;
- (ix) on the recommendation of Prof. Alberty and within the zero-sum total of Titular Members for the Physical Chemistry Division, one such position should be transferred from Commission I.6 for Prof. H. Hauser (Chairman, Steering Committee on Biophysical Chemistry) to become a Member of the Division Committee during 1994-1995;
- (x) on the recommendation of Prof. Komarek and to ensure continuity in the Inorganic Chemistry Division Committee, two of the five Members all due to complete their maximum statutory term of service in 1995 should exceptionally be allowed to continue until 1997;
- (xi) Dr. P. M. Giles, Jr., should continue to serve as a Titular Member on Commission III.1 until 1995, when he would reach the maximum statutory term of twelve years of Titular/Associate Membership;

- (xii) on the recommendation of Prof. Leonard and within the zero-sum total of Titular Members for the Organic Chemistry Division, one such position should be transferred from Commission III.3 for a person to be appointed after Lisbon to a subcommittee on organic synthesis;
- (xiii) with the discontinuation by Council at Lisbon of the ten-years limitation of period of service for membership of Division/Section Committees (Bylaw 4.103), Prof. A. D. Jenkins was eligible to serve until 1997 as a Member of the Macromolecular Division Committee;
- (xiv) for exceptional reasons (to continue and provide reference materials of a defined chemical history) proposed by Prof. Heitz, the maximum statutory term of service should be further extended until 1995 as an Associate Member for Dr. B. C. Anderson on Commission IV.2;
- (xv) on the recommendation of Prof. Hulanicki and within the zero-sum total of Titular Members for the Analytical Chemistry Division, four such positions should be transferred (one each from Commissions V.1, V.4, V.7, and V.8) so that the Division Committee could be enlarged by one Member and Commission V.10 could be allocated three Titular Members; and also that Commission V.10 (Separation Methods in Analytical Chemistry) should be redesignated as V.3;
- (xvi) for exceptional reasons proposed by Prof. Hulanicki, the maximum statutory terms of service should be extended until 1997 as Associate Members for Profs. Y. Goshi (to continue as coordinator of rearranged project on nomenclature for X-ray emission spectroscopy), J. W. Stahl (to finalize project on nomenclature of thermometric and enthalpymetric methods), and P. J. Worsfold (to continue as coordinator for project on classification and chemical properties of immobilized enzymes) on Commission V.1;
- (xvii) for exceptional reasons proposed by Prof. Hulanicki, the maximum statutory terms of service should be extended until 1995 as Associate Members for Profs. T. A. Kaden (to coordinate rearranged project on critical evaluation of thermodynamic data of macrocyclic ligands, previously defined as on stability constants of complexes of macrocyclic ligands) and R. Portanova (to continue as coordinator for project on hydroxycarboxylic acids, particularly Part 2 on the aliphatic acids) on Commission V.6;
- (xviii) for exceptional reasons (to continue as coordinator for projects on determination of very low levels of radioactivity and on gas thermochromatography and volatilization techniques for separations in radioanalytical and nuclear chemistry) proposed by Prof. Hulanicki, the maximum statutory term of service should be extended until 1995 as a Titular Member for Prof. I. Zvàra on Commission V.7;
- (xix) for exceptional reasons (to continue as Commission projects coordinator) proposed by Dr. Steyn, the maximum statutory term of service should be extended until 1995 as a Titular Member for Dr. H. A. M. G. Vaessen on Commission VI.1;
- (xx) for exceptional reasons (invaluable experience in agrochemicals essential for efficient functioning of Commission) proposed by Dr. Steyn, the maximum statutory term of service for Titular/Associate Membership should be extended until 1995 for Dr. G. D. Paulson as an Associate Member on Commission VI.5;

- (xxi) for exceptional reasons (coordinator of major project on list of quantities measured in the clinical laboratory) proposed by Prof. Lehmann, the maximum statutory term of service as a Titular Member should be extended until 1995 for Dr. H. Olesen on Commission VII.2;
- (xxii) for exceptional reasons (invaluable experience in Commission projects to be retained, but without election to Titular Membership) proposed by Prof. Lehmann, the maximum statutory term of service as an Associate Member should be extended until 1995 for Prof. C.-H. de Verdier on Commission VII.2;
- (xxiii) for exceptional reasons (to provide further continuity in the recently established Section) proposed by Prof. Topliss, the term of service as Past-President (Bylaw 4.103) should be extended until 1995 for Prof. C. G. Wermuth on Medicinal Chemistry Section Committee.

Bearing in mind the stricter policy which had recently been followed in respect of requests for exceptional extension of periods of service, Prof. Brown suggested that the scientific reason for each extension approved by the Bureau should be mentioned in the minutes. The Executive Secretary agreed to ascertain the reasons from the relevant Division/Section Presidents. Also, the Executive Secretary was asked to include the zero-sum Titular Membership details for each Division/Section during 1991-1993 and 1994-1995 with the minutes (Appendix B).

12/93 FUTURE MEMBERSHIP OF COMMITTEE ON AFFILIATE MEMBERSHIP
(Minute 3.2.10/93, 63rd Bureau - Lisbon)

From the start of 1994, Prof. den Boef agreed to act as Chairman of CAM in succession to Prof. Staab. Prof. Beck would continue his membership until the end of 1995. Prof. Chakravorty, who agreed to serve, and Dr. Eaton (absent) were nominated as new Members from the Bureau. The Executive Secretary would check that Dr. Eaton was willing to serve. Pending the outcome of the review of AMP, it was agreed not to appoint a full complement of six Bureau members in addition to the Chairman.

13/93 DATES AND PLACE OF NEXT MEETING

In order of priority, the following possible locations for the 1994 Bureau and associated meetings were proposed for investigation by the Executive Secretary: University of Antwerp (Belgium), Fondation de la Maison de la Chimie, Paris (France), Lady Margaret Hall, University of Oxford (UK). The preferred dates were agreed as 24th-25th September, with 17th-18th as second choice.

14/93 ANY OTHER BUSINESS

14.1/93 Final Allocations to Divisions/Section and Standing Committees

In response to an enquiry from Dr. Steyn, the Treasurer promised to circulate soon after the General Assembly details of the final allocations. He expected the basic allocations to remain the same as in his preallocation. However, the environmental and Pool-TM components would need to take into account decisions made during the Lisbon Assembly. Some of the unallocated monies might be used for a grant to the environmental project on Destruction of Chemical Warfare Agents.

Prof. Komarek mentioned unofficially that, at its meeting in Lisbon, dissolution had been recommended of the Coordinating Committee on Chemistry and Advanced Materials Programme.

The Executive Secretary drew attention to a recommendation to the Bureau (Minute 6.6/93, 118th Executive Committee) that, due to the continuing financial difficulties of the Union, no further consideration should be given to initiating new mission-oriented programmes on chemistry and biosciences/biotechnology and on computers and chemistry.

14.2/93 1994 Vice-Presidential Critical Assessment of IUPAC Projects and Programmes

Prof. Fischli invited each Division/Section President to send him by 94.01.31 a short appraisal (maximum of three pages) of the achievements during 1993 of their Division/Section.

14.3/93 Vote of Thanks to Retiring Members of Bureau

The Chairman thanked those Bureau Members and Division Presidents, who would be retiring at the end of the year, for their work on behalf of the Union.

* * *

CHAIRMAN:


Fischli

DATE:


17. Sept. 1994

APPENDIX A

SP Special permission required for extension, because eight years or more already served in the specific category of membership OR a total of more than twelve years

R Rotation through Associate and Titular membership

++ Confirmation awaited of agreement to serve

PHYSICAL CHEMISTRY DIVISION COMMITTEE (I)

Members

1987 - 1995	Prof. K. Kuchitsu President
1985 - 1995	Prof. R. A. Albery Past-President
1989 - 1995	Prof. G. Somsen Vice-President
1991 - 1995	Prof. M. A. El-Sayed Secretary
1994 - 1997	Prof. T. Cvitas
1991 - 1995	Prof. G. Gritzner
1994 - 1997	Prof. J. A. Kerr
1994 - 1997	Dr. Gerd M. Olofsson

**COMMISSION ON PHYSICOCHEMICAL SYMBOLS, TERMINOLOGY
AND UNITS (I.1)**

Titular Members

1989 - 1997	Prof. H. L. Strauss
	Chairman
1987 - 1995	Prof. M. Quack
	Secretary
1991 - 1995	Dr. B. Holmström
1989 - 1995	Prof. I. V. Khudyakov
1991 - 1995	Dr. F. Pavese
1994 - 1997	Dr. M. Takami
	++

Associate Members

1994 - 1997	Prof. T. Cvitas
1987 - 1995	Prof. G. H. Findenegg
1991 - 1995	Prof. I. M. Mills
1994 - 1997	Mr. A. J. Thor

COMMISSION ON THERMODYNAMICS (I.2)

Titular Members

1989 - 1997	Prof. W. A. Wakeham
	Chairman
1989 - 1997	Prof. R. D. Weir
	Secretary
1994 - 1997	Dr. T. W. De Loos
1989 - 1997	Prof. G. Della Gatta
1994 - 1997	Dr. J. H. Dymond
1989 - 1995	Dr. M. B. Ewing
1994 - 1997	Dr. R. N. Goldberg
	SP

Associate Members

1994 - 1997	Prof. J. C. Ahluwalia
1994 - 1997	Prof. G. Barone
1989 - 1997	Prof. J.-P. Grolier
1994 - 1997	Dr. M. Huntelaar
1989 - 1997	Prof. I. L. Khodakovsky
1991 - 1995	Prof. T. Letcher
1994 - 1997	Prof. T. Matsuo
1989 - 1997	Prof. C. A. Nieto de Castro
1987 - 1995	Dr. S. L. Randzio
1994 - 1997	Prof. M. A. V. Ribeiro da Silva
1994 - 1997	Prof. E. Vogel
1987 - 1995	Prof. J. Winkelmann

COMMISSION ON ELECTROCHEMISTRY (I.3)

Titular Members

1987 - 1995 Prof. G. S. Wilson

Chairman

1989 - 1997 Prof. W. Plieth

Secretary

1991 - 1995 Dr. C. P. Andrieux

1991 - 1995 Prof. D. M. Drazic

1989 - 1997 Dr. Margaretha Sluyters-Rehbach

1987 - 1995 Prof. K. Tokuda

Associate Members

1994 - 1997 Prof. C. M. A. Brett

1994 - 1997 Prof. F. M. Hawkridge

1994 - 1997 Prof. V. E. Kazarinov

1994 - 1997 Prof. W. Lorenz

1991 - 1995 Prof. C. R. Martin

1991 - 1995 Prof. A. A. Milchev

1991 - 1995 Prof. T. Watanabe

COMMISSION ON CHEMICAL KINETICS (I.4)

Titular Members

1991 - 1995 Dr. J. T. Herron

Chairman

1989 - 1995 Prof. J. A. Kerr

Secretary

1991 - 1995 Prof. D. L. Baulch

1994 - 1997 Dr. M. J. Rossi

1994 - 1997 Prof. J. Troe

Associate Members

1991 - 1995 Prof. V. V. Azatyan

1983 - 1995 Prof. L. I. Elding SP

1994 - 1995 Prof. Yu. N. Molin

1994 - 1995 Prof. I. Tanaka

1989 - 1995 Prof. P. J. Van Tiggelen

**COMMISSION ON MOLECULAR STRUCTURE
AND SPECTROSCOPY (I.5)**

Titular Members

1994 - 1997	Prof. J. E. Bertie
	Chairman
1991 - 1995	Dr. Brenda P. Winnewisser
	Vice-Chairman
1989 - 1995	Dr. Joann F. Sullivan
	Secretary
1994 - 1997	Prof. A. M. Heyns
1994 - 1997	Prof. R. Janoschek
1994 - 1997	Prof. P. Klaeboe
1994 - 1997	Prof. S. Tsuchiya

Associate Members

1991 - 1995	Prof. A. M. Bradshaw
1994 - 1997	Dr. Sonia Maria Cabral de Menezes
1991 - 1995	Prof. B. G. Derendjaev
1994 - 1997	Prof. E. Hirota
1991 - 1995	Prof. A. Oskam
1989 - 1997	Prof. C. Zhang

**COMMISSION ON COLLOID AND SURFACE CHEMISTRY
INCLUDING CATALYSIS (I.6)**

Titular Members

1987 - 1995	Prof. J. Ralston
	Chairman
1991 - 1995	Dr. A. M. Cazabat
	Secretary
1989 - 1997	Prof. B. Delmon
1994 - 1997	Dr. L. K. Koopal
1991 - 1995	Prof. M. Misono
1991 - 1995	Prof. K. K. Unger

Associate Members

1994 - 1997	Prof. Silvia Ardizzone
1991 - 1995	Prof. I. Dékány
1994 - 1997	Dr. N. Furlong
1991 - 1995	Prof. T. Kunitake
1991 - 1995	Dr. J. A. Pajares
1989 - 1997	Prof. G. I. Panov
1994 - 1997	Prof. J. F. Roth
1994 - 1997	Prof. B. Vincent

INORGANIC CHEMISTRY DIVISION COMMITTEE (II)

Members

1985 - 1995	Prof. K. L. Komarek President
1985 - 1997	Prof. G. J. Leigh Vice-President
1987 - 1995	Prof. P. W. Gilles Secretary
1991 - 1995	Prof. D. H. Busch
1991 - 1995	Prof. J. R. de Laeter
1991 - 1995	Prof. L. Kihlborg
1991 - 1995	Prof. F. A. Kuznetsov
1991 - 1995	Prof. R. Metselaar

**COMMISSION ON ATOMIC WEIGHTS AND ISOTOPIC
ABUNDANCES (II.1)**

Titular Members

1985 - 1995	Prof. K. G. Heumann
	Chairman
1987 - 1995	Dr. T. B. Coplen
	Secretary
1991 - 1995	Dr. J. W. Gramlich
1989 - 1997	Prof. H. R. Krouse
1994 - 1997	Dr. G. I. Ramendik
1987 - 1995	Dr. K. J. R. Rosman
1994 - 1997	Prof. L. Schultz

Associate Members

1994 - 1997	Dr. J. K. Böhlke
1989 - 1997	Dr. H. J. Dietze
1991 - 1995	Dr. M. Ebihara
1991 - 1995	Dr. R. D. Loss
1994 - 1997	Dr. D. Richardson
1991 - 1995	Dr. P. D. P. Taylor
1991 - 1995	Dr. L. Turpin
1994 - 1997	Dr. R. D. Vocke

**COMMISSION ON NOMENCLATURE OF
INORGANIC CHEMISTRY (II.2)**

Titular Members

1987 - 1995	Prof. A. M. Sargeson
	Chairman
1987 - 1995	Prof. J. A. McCleverty
	Vice-Chairman
1994 - 1997	Prof. W. H. Koppenol
	Secretary
1989 - 1997	Dr. A. J. Arduengo
1989 - 1997	Prof. D. Coucouvanis
1987 - 1995	Dr. M. W. G. de Bolster
1994 - 1997	Prof. H. D. KAESZ
1991 - 1995	Dr. A. Salzer

Associate Members

1994 - 1997	Prof. G. Bergerhoff
1991 - 1995	Dr. J. B. Casey
1991 - 1995	Prof. G. Denti
1994 - 1997	Prof. J. de Oliveira Cabral
1991 - 1995	Prof. A. Dress
1994 - 1997	Prof. P. Royo Gracia

COMMISSION ON HIGH TEMPERATURE AND SOLID STATE CHEMISTRY (II.3)

Titular Members

1985 - 1995	Prof. J. Corish Chairman
1991 - 1995	Dr. G. M. Rosenblatt Secretary
1994 - 1997	Prof. H. P. Boehm
1987 - 1995	Prof. L. N. Gorokhov
1994 - 1997	Prof. D. Kolar
1994 - 1997	Prof. M. H. Lewis
1987 - 1995	Prof. D.-S. Yan

Associate Members

1994 - 1997	Prof. G. Balducci
1994 - 1997	Prof. J. F. Baumard
1989 - 1997	Dr. C. B. J. Chatillon
1987 - 1995	Prof. J. G. Edwards
1994 - 1997	Prof. Meral Kizilyalli
1994 - 1997	Prof. K. Kuomoto
1994 - 1997	Prof. K. E. Spear
1991 - 1995	Dr. M. Thackeray
1994 - 1997	R. J. D. Tilley
1989 - 1997	Prof. G. F. Voronin

**COMMISSION ON ISOTOPE SPECIFIC
MEASUREMENTS AS REFERENCES (II.4)**

Titular Members

1989 - 1995	Dr. J. R. Moody	
	Chairman	
1989 - 1995	Dr. Andrée Lamberty	
	Secretary	
1994 - 1995	Prof. Okamoto	++
1994 - 1995	Prof. J. Versieck	++

Associate Members

1989 - 1995	Dr. J. W. Gramlich
1994 - 1995	Prof. K. G. Heumann
1994 - 1995	Dr. K. J. R. Rosman

ORGANIC CHEMISTRY DIVISION COMMITTEE (III)

Members

1991 - 1995	Prof. M. Oki
	President
1994 - 1997	Prof. G. Scorrano
	Vice-President
1989 - 1997	Prof. J. C. Richer
	Secretary
1994 - 1997	Prof. P. Müller
1991 - 1995	Prof. U. K. Pandit
1994 - 1997	P. J. Stang
1991 - 1995	Prof. C. J. M. Stirling
1994 - 1997	E. Winterfeldt

**COMMISSION ON NOMENCLATURE OF
ORGANIC CHEMISTRY (III.1)**

Titular Members

1989 - 1997	Prof. H. A. Favre
	Chairman
1991 - 1995	Prof. J. G. Traynham
	Secretary
1987 - 1995	Prof. H. J. T. Bos
1989 - 1997	Dr. P. M. Giles, Jr.
1994 - 1997	Prof. B. J. Herold
1994 - 1997	Dr. M. V. Kisakürek
1991 - 1995	Dr. D. Tavernier
1991 - 1995	Dr. J. L. Wisniewski

SP

Associate Members

1994 - 1997	Prof. F. Cozzi
1989 - 1997	Prof. F. Farina
1989 - 1997	Prof. R. J.-R. Hwu
1989 - 1997	Dr. Maria A. C. Kaplan
1991 - 1995	Prof. A. J. Lawson
1989 - 1997	Dr. W. Liebscher
1989 - 1997	Prof. M. M. Mikolajczyk
1994 - 1997	Prof. J. Nyitrai
1994 - 1997	Prof. H. A. Smith, Jr.
1991 - 1995	Dr. J. H. Stocker

**COMMISSION ON PHYSICAL ORGANIC
CHEMISTRY (III.2)**

Titular Members

1994 - 1997 Prof. T. T. Tidwell

Chairman

1991 - 1995 Prof. W. Drenth

Secretary

1991 - 1995 Prof. V. I. Minkin

1994 - 1997 Prof. C. L. Perrin

1991 - 1995 Prof. Z. Rappoport

1989 - 1997 Prof. J. Shorter

1991 - 1995 Prof. Y. Takeuchi

Associate Members

1991 - 1995 Prof. P. N. I. Ahlberg

1994 - 1997 Prof. E. Baciocchi

1994 - 1997 A. J. Kirby ++

1991 - 1995 Dr. D. J. Raber

1994 - 1997 Dr. H. U. Siehl

1989 - 1997 Dr. J. R. Zdysiewicz

COMMISSION ON PHOTOCHEMISTRY (III.3)

Titular Members

1991 - 1995 Dr. J. D. Coyle

Chairman

1989 - 1995 Dr. R. Bonneau

Secretary

1994 - 1997 Prof. F. D. Lewis

1994 - 1997 Prof. Isao Saito

1994 - 1997 Prof. F. Scandola

1991 - 1995 Prof. J. Wirz

Associate Members

1989 - 1995 Prof. D. R. Arnold

1991 - 1995 Dr. H.-D. Becker

1994 - 1997 Prof. J. R. Bolton

1994 - 1997 Prof. V. Kuzmin

1991 - 1995 Prof. J. Mattay

1987 - 1995 Dr. E. A. San Román

MACROMOLECULAR DIVISION COMMITTEE (IV)

Members

1987 - 1997	Prof. J. Economy President
1991 - 1995	Prof. J. H. O'Donnell Vice-President
1989 - 1997	Prof. J. E. Guillet Secretary
1994 - 1997	Dr. N. M. Bikales
1985 - 1997	Prof. A. D. Jenkins
1994 - 1997	Prof. P. Kratochvíl
1991 - 1995	Prof. S. Russo

COMMISSION ON MACROMOLECULAR NOMENCLATURE (IV.1)

Titular Members

1989 - 1997	Prof. R. F. T. Stepto Chairman
1987 - 1995	Dr. W. J. Work Secretary
1989 - 1997	Prof. K. Hatada
1991 - 1995	Dr. J. Kahovec
1994 - 1997	Prof. E. Maréchal
1991 - 1995	Dr. W. V. Metanomski
1987 - 1995	Prof. V. P. Shibaev

Associate Members

1987 - 1995	Prof. J. V. Aleman
1991 - 1995	Prof. M. Baron
1994 - 1997	Prof. Jung-Il Jin
1991 - 1995	Prof. K. Matyjaszewski
1989 - 1995	Prof. T. Saegusa
1987 - 1995	Prof. L. Shi

**COMMISSION ON POLYMER CHARACTERIZATION
AND PROPERTIES (IV.2)**

Titular Members

1989 - 1997 Dr. D. R. Moore

Chairman

1991 - 1995 Dr. J. Stejskal

Secretary

1991 - 1995 Prof. R. G. Gilbert

1991 - 1995 Prof. T. Hjertberg

1994 - 1997 Dr. H. M. Laun

1987 - 1995 Dr. M. J. Richardson

1991 - 1995 Prof. S. B. Ross-Murphy

Associate Members

1983 - 1995 Dr. B. C. Anderson

SP

1989 - 1995 Prof. N. F. Bakeev

1994 - 1995 Mr. J. M. Cann

1994 - 1995 Prof. M. Jozefowicz

1987 - 1995 Dr. H. Lange

1987 - 1995 Prof. T. Masuda

1987 - 1995 Prof. E. F. Oleinik

1991 - 1995 Prof. V. Percec

1985 - 1995 Prof. R. Qian

1987 - 1995 Prof. S. Russo

1989 - 1997 Dr. G. Schorsch

COMMISSION ON FUNCTIONAL POLYMERS (IV.3)

Titular Members

1991 - 1995 Prof. J. H. Wendorff

Chairman

1994 - 1995 Prof. Ann-Christine Albertsson

1994 - 1995 Dr. E. E. Havinga

1994 - 1995 Prof. S. Huang

1989 - 1995 Prof. W. J. Koros

1989 - 1995 Prof. T. Shimidzu

1994 - 1995 Prof. H. Strathmann

ANALYTICAL CHEMISTRY DIVISION COMMITTEE (V)

SP

Members

1987 - 1995 Prof. A. Hulanicki

President

1991 - 1997 Prof. M. Grasserbauer

Vice-President

1994 - 1997 Dr. M. Parkany

Secretary

1994 - 1997 Dr. L. A. Currie

1991 - 1995 Prof. R. A. Durst

1994 - 1997 Prof. K. M. Kadish

1991 - 1995 Dr. L. D. Pettit

1994 - 1997 Dr. T. A. M. Ure

1994 - 1997 Prof. R. E. Van Grieken

**COMMISSION ON GENERAL ASPECTS OF
ANALYTICAL CHEMISTRY (V.1)**

Titular Members

1989 -1995 Prof. W. E. van der Linden

Chairman

1989 - 1995 Dr. St. Glab

Secretary

1994 - 1997 Prof. K. Danzer

1994 - 1997 Prof. H. Müller

1989 - 1995 Dr. M. Parkany

1994 - 1997 Prof. J. F. van Staden

Associate Members

1989 - 1997 Prof. Y. Gohshi SP

1989 - 1997 Prof. M. Otto

1989 - 1997 Prof. J. W. Stahl SP

1989 - 1997 Prof. P. J. Worsfold SP

**COMMISSION ON MICROCHEMICAL TECHNIQUES
AND TRACE ANALYSIS (V.2)**

Titular Members

1987 - 1995 Dr. D. G. Westmoreland
 Chairman
1991 - 1995 Dr. M. W. Linscheid
 Secretary

1987 - 1995 Prof. M. J.-F. Leroy
1989 - 1997 Dr. M. Morita
1994 - 1997 Dr. H. Muntau
1991 - 1995 Dr. M. J. Pellin
1989 - 1997 Dr. B. Ya. Spivakov

Associate Members

1991 - 1995 Dr. S. Caroli
1989 - 1997 Dr. W. P. Cofino
1994 - 1997 Dr. L.-G. Danielsson
1989 - 1997 Dr. J. S. Edmonds
1994 - 1997 Dr. G. Friedbacher
1994 - 1997 Prof. D. Hercules
1994 - 1997 Dr. J. Hlavay
1991 - 1995 Dr. A. E. Maier
1987 - 1995 Prof. L. Reutergårdh
1989 - 1997 Dr. G. R. Rhodes
1987 - 1995 Dr. W. Wegscheider
1994 - 1995 Dr. D. E. Wells

**COMMISSION ON SPECTROCHEMICAL AND OTHER
OPTICAL PROCEDURES FOR ANALYSIS (V.4)**

Titular Members

1989 - 1997	Dr. T. Vo-Dinh Chairman
1989 - 1997	Dr. D. S. Moore Secretary
1991 - 1995	Prof. G. G. Gauglitz
1991 - 1995	Prof. J. N. Miller
1989 - 1997	Prof. B. Schrader
1994 - 1997	Prof. N. H. Velthorst

Associate Members

1991 - 1995	Prof. F. Adams
1991 - 1995	Dr. Anne-Marie Andreani
1991 - 1995	Dr. J. R. Bacon
1989 - 1995	Dr. H. J. Coufal
1994 - 1997	Prof. T. Imasaka
1994 - 1997	Prof. Lukosz
1994 - 1997	Dr. G. R. Turk
1994 - 1997	Dr. Wilkinson
1987 - 1995	Dr. E. Yeung

COMMISSION ON ELECTROANALYTICAL CHEMISTRY (V.5)

Titular Members

1989 - 1995	Prof. R. P. Buck
	Chairman
1987 - 1995	Prof. Klára Tóth
	Secretary
1991 - 1995	Dr. M. L'Her
1991 - 1995	Prof. Sandra Rondinini Cavallari
1989 - 1995	Dr. K. Stulik
1991 - 1995	Prof. Y. Umezawa

Associate Members

1989 - 1995	Prof. A. M. Bond	
1989 - 1995	Prof. K. Cammann	
1987 - 1995	Prof. M. Filomena Camoes	
1987 - 1995	Dr. A. G. Fogg	
1994 - 1997	Prof. L. Gorton	++
1991 - 1995	Prof. W. R. Heineman	
1991 - 1995	Dr. S. Kihara	
1991 - 1995	Dr. W. F. Koch	
1989 - 1995	Dr. W. Kutner	
1987 - 1995	Prof. E. Wang	
1991 - 1995	Prof. J. Wang	
1994 - 1997	Prof. M. Wightman (? spelling) ++	

COMMISSION ON EQUILIBRIUM DATA (V.6)

Titular Members

1989 - 1997	Dr. T. Kiss
	Chairman
1989 - 1997	Dr. H. K. J. Powell
	Secretary
1991 - 1995	Prof. R. H. Byrne
1991 - 1995	Prof. L. H. J. Lajunen
1994 - 1997	Prof. S. Sjöberg
1987 - 1995	Prof. D. G. Tuck

Associate Members

1991 - 1995	Dr. J. R. Duffield	
1989 - 1997	Prof. S. Ishiguro	
1985 - 1995	Prof. T. A. Kaden	SP
1989 - 1997	Dr. S. H. Laurie	
1985 - 1995	Prof. R. Portanova	SP
1994 - 1997	Prof. E. N. Rizkalla	
1994 - 1997	Prof. M. Tabata	
1994 - 1997	Dr. M. Zhang	

**COMMISSION ON RADIOCHEMISTRY AND NUCLEAR
TECHNIQUES (V.7)**

Titular Members

1987 - 1995	Prof. Y.-F. Liu	(V)
Chairman		
1991 - 1995	Prof. P. J. Karol	(V)
Secretary		
1994 - 1997	Prof. H. A. Das	(V)
1994 - 1997	Mr. J. Madic	(V)
1994 - 1997	Prof. H. Nakahara	(V)
1985 - 1995	Prof. I. Zvára	(V) SP

Associate Members

1994 - 1997	Dr. J. R. Barrio	++	()
1994 - 1997	Prof. P. Benes		()
1994 - 1997	Dr. R. G. Downing		()
1991 - 1995	Dr. V. P. Kolotov		(V)
1991 - 1995	Prof. J. V. Kratz		(V)
1994 - 1997	Dr. P. Vitorge		()
1991 - 1995	Prof. Y. Zhu		(V)

COMMISSION ON SOLUBILITY DATA (V.8)

Titular Members

1991 - 1995	Dr. M. Salomon
	Chairman
1987 - 1995	Prof. R. P. T. Tomkins
	Secretary
1991 - 1995	Dr. Jitka Eysseltová
1994 - 1995	Prof. F. W. Getzen
1987 - 1995	Dr. G. T. Hefter
1991 - 1995	Dr. A. Maczynski

Associate Members

1991 - 1995	Prof. C. Balarew
1994 - 1997	Dr. Marie-Thérèse E. Cohen-Adad
1987 - 1995	Dr. Angela F. Danil de Namor
1994 - 1997	Prof. H. Gamsjäger
1987 - 1995	Dr. H. J. M. Grünbauer
1989 - 1995	Prof. C. Kalidas
1991 - 1995	Prof. Sonja Krause
1994 - 1997	Prof. A. E. Mather
1991 - 1995	Dr. H. Miyamoto
1994 - 1997	Dr. Pirketta Scharlin
1989 - 1995	Prof. V. M. Valyashko
1991 - 1995	Dr. J. Vanderdeelen

**COMMISSION ON ENVIRONMENTAL ANALYTICAL
CHEMISTRY (V.9)**

Titular Members

1989 - 1995	Prof. J. Buffle
	Chairman
1989 - 1995	Prof. H. P. van Leeuwen
	Secretary
1994 - 1995	Prof. G. Horvai
1994 - 1995	Prof. N. Senesi

Associate Members

1989 - 1995	Dr. R. F. M. J. Cleven
1994 - 1997	Prof. R. M. Harrison
1994 - 1997	Prof. P. M. Huang
1989 - 1995	Dr. G. G. Leppard
1991 - 1995	Prof. C. R. O'Melia
1989 - 1995	Prof. G. Sposito
1994 - 1997	Prof. R. L. Tanner
1989 - 1997	Prof. A. Tessier
1991 - 1997	Dr. D. Turner

**COMMISSION ON SEPARATION ANALYTICAL
METHODS (V.10)**

Titular Members

1991 - 1997	Dr. A. Marton
	Chairman
1991 - 1997	Dr. R. M. Smith
	Secretary
1989 - 1995	Prof. H. M. Kingston

Associate Members

1991 - 1997	Prof. V. A. Davankov
1991 - 1997	Prof. K. Jinno
1991 - 1997	Dr. J. Å. Jönsson
1994 - 1997	Dr. P. J. Schoenmakers
1994 - 1997	Dr. P. A. Siskos
1989 - 1995	Prof. W. Yu

APPLIED CHEMISTRY DIVISION COMMITTEE (VI)

Members

1987 - 1995	Dr. P. S. Steyn President
1989 - 1995	Dr. J. Miyamoto Vice-President
1985 - 1995	Dr. R. Greenhalgh Secretary
1991 - 1995	Prof. J. G. Calvert
1994 - 1997	Dr. A. Dieffenbacher
1994 - 1997	Prof. W. Klein
1994 - 1997	Dr. A. E. Pohland
1994 - 1997	Dr. T. R. Roberts

COMMISSION ON FOOD CHEMISTRY (VI.1)

Titular Members

1987 - 1995	Dr. D. J. McWeeny
	Chairman
1989 - 1997	Dr. J. M. Fremy
	Secretary
1994 - 1997	Dr. J. Gilbert
1994 - 1997	Dr. Marina Miraglia
1991 - 1995	Dr. P. G. Thiel
1985 - 1995	Dr. H. A. M. G. Vaessen
	SP

Associate Members

1994 - 1997	Dr. J. Boisseau
1991 - 1995	Dr. A. K. D. Liem
1994 - 1997	Dr. J. MacNeil
1987 - 1995	Dr. J. J. O'Rangers
1991 - 1995	Dr. S. W. Page
1987 - 1995	Dr. I. Rosenthal
1985 - 1995	Dr. T. Yasumoto

COMMISSION ON BIOTECHNOLOGY (VI.2)

Titular Members

1989 - 1995	Dr. J. L. Fox
	Chairman
1985 - 1995	Dr. H. G. W. Leuenberger
	Vice-Chairman
1985 - 1995	Dr. H. K. Kölbl
	Secretary
1989 - 1995	Prof. A. M. Boronin
1991 - 1995	Prof. M. Moo-Young
1991 - 1995	Prof. Y. Yamada

Associate Members

1994 - 1997	Prof. J. Kás
1989 - 1995	Prof. B. Nagel
1994 - 1997	Dr. S. Ogino
1994 - 1997	Prof. H. Ohkawa
1994 - 1997	Dr. Tramper

COMMISSION ON OILS, FATS, AND DERIVATIVES (VI.3)

Titular Members

1991 - 1995	Prof. P. Dysseler Chairman
1994 - 1997	Dr. F. Mordret Vice-Chairman
1987 - 1995	Drs. P. W. Hendrikse Secretary
1991 - 1995	Prof. Gunhild Holmer
1994 - 1997	Mr. M. Pike
1994 - 1997	Dr. S. Watanabe

Associate Members

1989 - 1997	Dr. Alice Bonekamp
1991 - 1995	Mr. J. V. Holm
1991 - 1995	Dr. Mária Jeránek
1991 - 1995	Dr. K. Stig-Andersen
1994 - 1997	Dr. D. L. Berner

COMMISSION ON ATMOSPHERIC CHEMISTRY (VI.4)

Titular Members

1985 - 1995	Dr. J. Slanina
	Chairman
1987 - 1995	Prof. P. Warneck
	Secretary
1987 - 1995	Dr. H. Akimoto
1991 - 1995	Dr. L. A. Barrie
1991 - 1995	Prof. N. M. Bazhin
1991 - 1995	Dr. R. H. Brown
1987 - 1995	Prof. Xiaoyan Tan

Associate Members

1991 - 1995	Prof. E. H. Adema
1991 - 1995	Prof. J. G. Calvert
1989 - 1997	Mr. K. H. Eickel
1994 - 1997	Dr. H.-J. Grosse
1987 - 1995	Prof. J. A. Kerr
1991 - 1995	Prof. L. Klasinc
1991 - 1995	Prof. L. F. Phillips
1991 - 1995	Prof. H. I. Schiff
1991 - 1995	Dr. S. E. Schwartz
1994 - 1997	Dr. Tania M. Tavares

COMMISSION ON AGROCHEMICALS (VI.5)

Titular Members

1989 - 1995	Dr. E. Dorn
	Chairman
1989 - 1995	Dr. P. T. Holland
	Secretary
1991 - 1995	Dr. S. Z. Cohen
1994 - 1997	Mr. D. J. Hamilton
1994 - 1997	Dr. A. W. Klein
1989 - 1995	Prof. N. Kurihara
1991 - 1995	Dr. R. D. Wauchope

Associate Members

1989 - 1997	Dr. C. V. Eadsforth
1994 - 1997	Dr. J. Guth
1994 - 1995	Prof. R. M. Hollingworth
1991 - 1995	Dr. Jana Kovacicova
1994 - 1997	Dr. H. A. Kuiper
1991 - 1995	Mr. W. J. Murray
1989 - 1997	Mrs. Birgit Ohlin
1994 - 1995	Dr. G. D. Paulson
1994 - 1997	Dr. K. Racke
1991 - 1995	Mr. M. W. Skidmore
1991 - 1995	Dr. B. W. Zeeh

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COMMISSION ON WATER CHEMISTRY (VI.6)

Titular Members

1987 - 1995	Dr. A. J. Dobbs
	Chairman
1989 - 1995	Dr. W. J. G. M. Peijnenburg
	Secretary
1994 - 1997	Dr. A. Carter
1991 - 1995	Dr. Y. Shevah

Associate Members

1991 - 1995	Prof. V. D. Grebenyuk
1994 - 1997	Dr. W. Kördel
1991 - 1995	Dr. A. H. Neilson

CLINICAL CHEMISTRY DIVISION COMMITTEE (VII)

Members

1987 - 1995	Prof. H. P. Lehmann President
1989 - 1995	Mr. T. D. Geary Vice-President
1991 - 1995	Dr. A. Kallner Secretary
1994 - 1997	Prof. G. D'Ascenzo
1991 - 1995	Prof. G. Férand
1991 - 1995	Prof. D. W. Moss
1991 - 1995	Dr. G. K. Sievers

COMMISSION ON QUANTITIES AND UNITS (VII.2)

Titular Members

1985 - 1995	Dr. H. Olesen	SP
	Chairman	
1991 - 1995	Dr. X. Fuentes-Arderiu	
1987 - 1995	Dr. J. G. Hill	
1994 - 1997	Mr. D. Kenny	
1994 - 1997	Dr. P. Soares de Araujo	
1989 - 1997	Dr. P. L. Storring	

Associate Members

1989 - 1997	Dr. S. J. Bryant	
1985 - 1997	Prof. C.-H. de Verdier	SP
1991 - 1995	Dr. J. Kratochvila	

COMMISSION ON TOXICOLOGY (VII.4)

Titular Members

1987 - 1995	Dr. Rita Cornelis Chairman
1991 - 1995	Dr. B. Heinzow Secretary
1991 - 1995	Dr. J. H. Duffus
1987 - 1995	Prof. R. F. M. Herber
1989 - 1997	Prof. M. Jakubowski
1991 - 1995	Dr. Jytte Molin Christensen
1991 - 1995	Prof. D. M. Templeton

Associate Members

1989 - 1995	Prof. A. Cavelleri
1991 - 1995	Dr. Sheila Dawling
1994 - 1995	Dr. M. Ferrari
1989 - 1995	Dr. Andrée Lamberty
1991 - 1995	Mr. D. Rutherford
1991 - 1995	Prof. Marie Vahter
1991 - 1995	Dr. C. Veillon

MEDICINAL CHEMISTRY SECTION COMMITTEE

Members

1991 - 1995	Prof. J. G. Topliss President
1987 - 1995	Dr. N. Koga Vice-President
1987 - 1995	Prof. C. G. Wermuth Past-President
1991 - 1995	Prof. W.-D. Busse Secretary
1991 - 1995	Prof. C. R. Ganellin
1991 - 1995	Prof. L. A. Mitscher

ZERO-SUM AND LLTC/POOL TITULAR MEMBERSHIPS OF DIVISIONS/SECTION

	1991-1993 <u>TMs</u>	1994-1995 <u>TMs</u>
I	8	9
I.1	6	6
I.2	7	7
I.3	7	6
I.4	6	5
I.5	6	7
I.6	7	6
Unallocated	0 (47)	1 (47)
II	8	8
II.1	7	7
II.2	8	8
II.3	7	7
(LLTC Isotope	4)	(30) II.4 (Pool 4) (30)
III	8	8
III.1	8	8
III.2	7	7
III.3	7	6
Unallocated	0 (30)	1 (30)
IV	8	7
IV.1	8	7
IV.2	8	7
(LLTC Funct.	4)	IV.3 (Zero-Sum 3 + Pool 4) (24)
V	8	9
V.1	7	6
V.2	7	7
(LLTC Chrom.	4)	V.3 (Zero-sum 3)
V.4	7	6
V.5	6	6
V.6	6	6
V.7	7	6
V.8	7	6
(LLTC Env.	4)	V.9 Pool 4) (55)
VI	8	8
VI.1	6	6
VI.2	6	6
VI.3	7	6
VI.4	7	7
VI.5	7	7
VI.6	4	4
Unallocated	0 (45)	1 (45)
VII	8	7
VII.2	5	6
VII.4	7	7
(LLTC Biotech.	2)	(Disbanded) (20)
Medicinal Chemistry	<u>6</u> (6)	6 (6)

SUMMARY OF TITULAR MEMBERSHIPS

	<u>1991-1993</u>	<u>1994-1995</u>
Total zero-sum TMs	257	257
Allocated zero-sum TMs	257	254
Unallocated zero-sum TMs	0	3
Total LLTC TMs	18	0
*Allocated Pool TMs	0	18
	—	—
	275	275
	—	—
<hr/>		

*I	Theoretical and Computational Chemistry	3
II.4	Isotope Specific Measurements as References	4
IV.3	Functional Polymers	4
V.9	Environmental Analytical Chemistry	4
VII	Quality Systems in Clinical Laboratories	3
	—	—
	18	—