

INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY

MINUTES OF 58th BUREAU MEETING

Lund University, Sweden: 17th August 1989

Present: Prof. Y.P. Jeannin (Chairman), Prof. A.J. Arvía, Prof. M.T. Beck, Prof. A. Björkman, Prof. R.D. Brown, Dr. Mary L. Good - in part, Prof. W.-Y. Huang, Prof. S. Itô, Prof. J. Jortner - in part, Prof. V.A. Koptyug, Prof. G. Modena, Prof. I. Wadsö, Prof. T.S. West, Prof. K.I. Zamaraev (Elected Members); Prof. G.M. Schneider, Prof. Irina P. Beletskaya, Prof. W. Heitz, Prof. G. den Boef, Dr. L.E. Coles, Prof. N. Montalbetti (Division/Section Presidents)

Absent: Prof. A.J. Bard, Prof. N. Sheppard, Prof. H.A. Staab (Elected Members); Prof. E. Fluck, Prof. C.G. Wermuth (Division/Section Presidents); Prof. J.M. Thomas (CHEMRAWN Committee), Dr. D. Wyrsch (Committee on Chemistry and Industry)

In Attendance: Prof. G.H. Nancollas (Past-President, Analytical Chemistry Division), Dr. S.S. Brown (Past-President, Clinical Chemistry Division), Dr. M. Williams (Executive Secretary), Miss Ann Troughton (Deputy Executive Secretary)

18/89 INTRODUCTORY REMARKS AND FINALIZATION OF AGENDA

The President presented an apology for non-attendance from Vice-President Bard, who had unfortunately left Lund already, and he welcomed Prof. Brown to his first Bureau meeting.

Prof. Koptyug asked for the following item to be added to the agenda drawn up by the Executive Secretary:

5.1 Restructuring of IUPAC

19/89 ELECTION OF TWO EXECUTIVE COMMITTEE MEMBERS

The President reminded the Bureau that, in accordance with Statute 8.2, Prof. Sheppard would continue as an Elected Member of the Executive Committee until 1991. There were two vacancies arising from completion of the first period of service on the Bureau of Dr. Good and Prof. Itô. They were renominated by Prof. Jeannin for a second period on the Executive Committee and elected unanimously.

20/89 APPROVAL OF NEW MEMBERS OF DIVISION COMMITTEES AND COMMISSIONS

Taking into consideration the present restructuring of the Union, and 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 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 to 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 1991 for Commissions I.2 (to 12), I.3 (to 8), I.6 (to 8), II.1 (to 8), II.3 (to 12), III.1 (to 11), III.3 (to 7), IV.2 (to 12), V.4 (to 10), V.5 (to 12), V.6 (to 10), V.7 (to 9), V.8 (to 12), LLTC Chromatography and Analytical Separations (to 5), LLTC Environmental Analytical Chemistry (to 8), VI.1 (to 8), VI.5 (to 10);
- (vi) for exceptional reasons proposed by Prof. Schneider, the maximum statutory term of service should be extended until 1991 as an Associate Member for Dr. E.R. Cohen on Commission I.1 (liaison with ICSU-CODATA and IUPAP);
- (vii) for exceptional reasons proposed by Prof. Schneider, the maximum total statutory service on Commissions should be extended until 1991 as a Titular Member for Prof. E.T. Denisov on Commission I.4 (to become Commission Chairman);
- (viii) for exceptional reasons proposed by Prof. Montalbetti on behalf of Prof. Fluck, the maximum total statutory service on Commissions should be extended until 1991 as a Titular Member for Prof. J. Savory and as an Associate Member for Dr. S.S. Brown on new LLTC Commission on Isotope Specific Measurements as References (to maintain continuity in project work with former Working Party on Isotope Specific Measurements as References for Toxic/Essential Element Assay);
- (ix) for exceptional reasons proposed by Prof. Beletskaya, the maximum statutory term of service should be extended until 1991 as a Titular Member for Prof. O.M. Nefedov on Commission III.2 (completion of compilation of physical chemistry data on carbenes);
- (x) for exceptional reasons proposed by Prof. Heitz, the maximum statutory terms of service should be extended until 1991 as Titular Members for Dr. P.

Kratochvíl (to ensure continuity in leadership and for some project work) and for Prof. U.W. Suter (coordinator of projects on basic classification and definition of polymerization reactions and on glossary of basic terms in polymer science) on Commission IV.1 and as an Associate Member for Prof. V.A. Kabanov on Commission IV.2 (project work on ternary composites - polypropylene/elastomers/reinforcement);

(xi) the recommendation of the Executive Committee (Minute 4.4/89, 112th Meeting - Lisbon), that the Analytical Chemistry Division Committee be allowed to enlarge temporarily from eight to ten Members until 1991, should be approved;

(xii) for exceptional reasons proposed by Dr. Coles, the Applied Chemistry Division Committee should be allowed to have nine Members until 1991, Dr. J. Miyamoto to be declared elected for four years and Dr. Joyce L. Beare-Rogers for two years only;

(xiv) despite the exceptional reasons proposed by Dr. Coles, Dr. E. Dorn should not be allowed to serve as a Titular Member on Commission VI.5, but to continue as an Associate Member for four more years;

(xiii) the recommendation of Dr. Coles, that Commission VI.6 be allowed to retain a complement of five Titular Members and the case for a sixth Titular Member to be considered on its merits in due course by the Officers/Executive Committee, should be approved.

21/89 DATES AND PLACE FOR NEXT MEETING

The Secretary General preferred not to meet at Oxford in 1990, Bureau meetings having been held there in 1984, 1986, and 1988. The President invited the Bureau to meet in Paris and Profs. Modena/Montalbetti to meet in Italy (Rome, Frascati, Milan, or Venice). The decision on the actual location was left to Prof. Jeannin. The following tentative schedule was agreed:

Friday, 21st September	morning	Committee on Affiliate Membership
	afternoon	Division/Section Presidents
	evening	Coordinators/Subcoordinators of Chemistry and the Environment/ Chemistry and Advanced Materials Programmes
Saturday- Sunday, 22nd-23rd September	morning & afternoon	Bureau

22/89 ANY OTHER BUSINESS

22.1/89 Restructuring of IUPAC

Further to the previous discussions at Lund (Minute 6/89, 57th Bureau), on the

recommendation of Prof. Koptyug it was resolved by the Bureau that:-

(i) in addition to Prof. V.A. Koptyug as Chief Coordinator for the Chemistry and the Environment Programme, the following Subcoordinators should be appointed:

- | | |
|----------------------|---|
| Prof. G. den Boef | - Analytical Procedures for Determination of Chemical Substances/Measurement of Physicochemical Parameters related to the Environment |
| Dr. L.E. Coles | - Transfer and Transformation of Chemical Substances in the Environment |
| Prof. N. Montalbetti | - Toxicology of Synthetic and Natural Substances |
| Dr. D. Wyrsch | - Chemical Safety |
| Prof. K.I. Zamaraev | - Prevention of Environmental Pollution using Chemical and Biochemical Methods |

(ii) an Advanced Materials Discussion Group, consisting of the Presidents of the Physical Chemistry, Inorganic Chemistry, Organic Chemistry, and Macromolecular Divisions, should meet and report back to the Bureau with nominations for Subcoordinators;

(iii) Prof. Wadsö should undertake a feasibility study of a mission-oriented programme on Chemistry and the Biosciences/Biotechnology, which would involve collaboration with other relevant international scientific unions, etc., and the involvement of IUPAC in their existing programmes, and then report back to the Bureau.

* * * *

CHAIRMAN:

J. Jeannine

DATE: 23rd September 1990

APPENDIX A

I PHYSICAL CHEMISTRY DIVISION

Division Committee

President

1981-1991 Prof. G. M. Schneider

Vice-President

1985-1991 Prof. R. A. Albery

Secretary

* 1989-1993 Prof. K. Kuchitsu

Members

1989-1993 Prof. R. D. Brown

1989-1993 Prof. I. M. Mills

1989-1993 Prof. E. E. Nikitin

1989-1993 Prof. G. Somsen

1987-1991 Dr. Lisbeth Ter-Minassian Saraga

* Period of appointment 1987-1993

I.1 COMMISSION ON PHYSICOCHEMICAL SYMBOLS, TERMINOLOGY, AND UNITS

Titular Members

Chairman

1985-1993 Prof. T. Cvitas

Secretary

1983-1991 Prof. I. M. Mills

Members

1989-1991 Dr. I. V. Khudyakov

1987-1991 Prof. M. Quack

1989-1993 Prof. H. L. Strauss

1987-1991 Prof. M. Tasumi

Associate Members

1983-1991 Prof. R. A. Albery

* 1979-1993 Dr. E. R. Cohen

1987-1991 Prof. G. H. Findenegg

1987-1991 Prof. K. H. Homann

1987-1991 Prof. K. Kuchitsu

* Extension approved for 2 years

I.2 COMMISSION ON THERMODYNAMICS

Titular Members

Chairman

1987-1991 Dr. P. A. G. O'Hare

Secretary

1985-1993 Dr. Gerd M. Olofsson

Members

1985-1993 Prof. J. M. G. Barthel

1989-1993 Prof. G. Della Gatta

1989-1993 Dr. M. B. Ewing

1985-1993 Prof. Margit T. Rätzsch

1989-1993 Prof. W. A. Wakeham

Associate Members

1989-1993 Dr. T. W. De Loos

1989-1993 Dr. J. H. Dymond

1987-1991 Dr. R. N. Goldberg

1989-1993 Prof. J.-P. E. Grolier

1989-1993 Prof. I. L. Khodakovsky

1987-1991 Prof. G. A. Krestov

1989-1993 Dr. J. L. Laynez

1989-1993 Prof. C. A. Nieto de Castro

1987-1991 Dr. S. V. Randzio

1989-1993 Prof. R. D. Weir

1985-1993 Dr. E. Wilhelm

1987-1991 Prof. J. Winkelmann

I.3 COMMISSION ON ELECTROCHEMISTRY

Titular Members

Chairman

1983-1991 Prof. G. Gritzner

Secretary

1987-1991 Prof. G. S. Wilson

Members

1983-1991 Prof. D. Landolt

1985-1993 Prof. V. M. M. Lobo

1989-1993 Prof. W. Plieth

1989-1993 Dr. M. Sluyters-Rehbach

1987-1991 Prof. K. Tokuda

Associate Members

1987-1991 Dr. C. P. Andrieux

1987-1991 Prof. Yu. Chizmadzhev

1989-1993 Prof. B. E. Conway

1983-1991 Prof. J. Koryta

1989-1993 Dr. G. Kreysa

1983-1991 Prof. O. A. Petrii

1987-1991 Dr. D. Pletcher

1987-1991 Prof. M. J. Weaver

I.4 COMMISSION ON CHEMICAL KINETICS

Titular Members

Chairman

* 1989-1993 Prof. E. T. Denisov (I)

Secretary

1989-1993 Dr. J. A. Kerr (CODATA)

Members

1983-1991 Prof. K. J. Laidler (I)

1985-1993 Prof. Y. N. Molin (I)

1983-1991 Prof. W. C. Purdy (VII)

1985-1993 Prof. I. Tanaka (I)

1983-1991 Prof. J. Villermaux (I)

Associate Members

1983-1991 Prof. S. W. Benson (I)

1983-1991 Prof. L. I. Elding (I)

1983-1991 Prof. W. Klein (VI)

1983-1991 Prof. B. A. Thrush (I)

1989-1993 Prof. P. J. Van Tiggelen (I)

* Appointment approved for 2 years to 1991

I.5 COMMISSION ON MOLECULAR STRUCTURE AND SPECTROSCOPY

Titular Members

Chairman

1989-1993 Prof. C. J. H. Schutte

Secretary

1989-1993 Dr. Joann F. Sullivan

Members

1983-1991 Prof. A. M. Bradshaw

1987-1991 Prof. R. D. Brown

1983-1991 Dr. B. G. Derendjaev

1989-1993 Prof. R. K. Harris

1985-1993 Prof. E. Hirota

Associate Members

1989-1993 Prof. P. Granger Ø

1987-1991 Prof. S. Leach

1989-1993 Dr. J. Maier Ø

1987-1991 Prof. L. N. Masalov

1989-1991 Dr. J. F. J. Todd

1987-1991 Prof. S. Tsuchiya

1989-1993 Prof. C. Zhang

Ø Confirmation awaited of agreement to serve

I.6 COMMISSION ON COLLOID AND SURFACE CHEMISTRY INCLUDING CATALYSIS

Titular Members

Chairman

1983-1991 Prof. K. S. W. Sing

Vice-Chairman

1983-1991 Prof. J. H. Block

Secretary

1985-1993 Dr. B. Vincent

Members

1989-1993 Prof. B. Delmon

1987-1991 Prof. J. Ralston

1987-1991 Dr. J. Rouquérol

/ 1983-1991 Prof. P. J. Stenius

Associate Members

1987-1991 Prof. J. B. Butt

* 1987-1991 Dr. J. Czarnecki

1987-1991 Dr. D. Fairhurst

1983-1991 Dr. A. J. G. Maroto

1989-1993 Prof. M. Misono

1989-1993 Prof. G. I. Panov

1989-1993 Dr. P. Pendleton

1987-1991 Dr. D. Platikanov

/ Resigned

* Appointed Titular Member 1989-1993

II INORGANIC CHEMISTRY DIVISION

Division Committee

President

1981-1991 Prof. E. Fluck

Vice-President

1985-1991 Prof. K. L. Komarek

Secretary

1985-1991 Prof. G. J. Leigh

Members

1987-1991 Prof. V. V. Boldyrev

1987-1991 Prof. P. De Bièvre

1987-1991 Prof. P. W. Gilles

1987-1991 Prof. H. Ohtaki

1987-1991 Prof. C. E. Schäffer

II.1 COMMISSION ON ATOMIC WEIGHTS AND ISOTOPIC ABUNDANCES

Titular Members

Chairman

1983-1991 Prof. J. R. de Laeter

Secretary

1985-1993 Prof. K. G. Heumann

Members

1987-1991 Dr. J. Césario

1987-1991 Dr. T. B. Coplen

1989-1993 Prof. H. R. Krouse

1987-1991 Dr. K. J. R. Rosman

1985-1993 Dr. Masako Shima

Associate Members

1987-1991 Prof. R. C. Barber

1989-1993 Dr. H. J. Dietze

1985-1993 Dr. J. W. Gramlich

1989-1993 Dr. A. S. Hertz

1989-1993 Dr. Andrée Lamberty

1987-1991 Mr. T. J. Murphy

1987-1991 Prof. P. Seyfried

1987-1991 Prof. K. Wade

II.2 COMMISSION ON NOMENCLATURE OF INORGANIC CHEMISTRY

Titular Members

Chairman

* 1987-1993 Prof. A. M. Sargeson

Vice-Chairman

* 1989-1993 Prof. J. A. McCleverty

Secretary

1985-1993 Prof. R. S. Laitinen

Members

1989-1993 Dr. A. J. Arduengo

1989-1993 Prof. D. Coucounis

1987-1991 Dr. M. W. G. de Bolster

1985-1991 Mr. T. E. Sloan

1987-1991 Prof. K. Wieghardt

Associate Members

1987-1991 Prof. M. O. Albers

1987-1991 Dr. Piroska Fodor-Csányi

1989-1993 Prof. S. Kirschner

1985-1993 Prof. R. Poilblanc

* Period of appointments 1987-1991 [correction]

II.3 COMMISSION ON HIGH TEMPERATURE AND SOLID STATE CHEMISTRY

Titular Members

Chairman

1983-1991 Prof. R. Metselaar

Secretary

1985-1993 Prof. J. Corish

Members

1985-1993 Prof. J. F. Baumard

1987-1991 Prof. J. D. Drowart

1987-1991 Prof. L. N. Gorokhov

1987-1991 Dr. J. Hastie

1987-1991 Prof. D.-S. Yan

Associate Members

1989-1993 Dr. C. Chatillon Ø

1985-1991 Dr. J. B. Clark

1987-1991 Prof. J. G. Edwards

1987-1991 Prof. H. Hausner

1983-1991 Prof. L. Kihlborg

1989-1993 Prof. M. H. Lewis

1985-1993 Prof. J. Matoušek

1987-1991 Dr. H. J. Matzke

1985-1993 Dr. G. M. Rosenblatt

1989-1993 Prof. Taro Saito Ø

1989-1993 Prof. G. Van Tendeloo Ø

1989-1993 Prof. G. F. Voronin Ø

REPLACEMENT PAGE

COMMISSION ON ISOTOPE SPECIFIC MEASUREMENTS AS REFERENCES FOR
TOXIC/ESSENTIAL ELEMENT ASSAY (LLTC)

Titular Members

Chairman

1989-1993 Prof. P. De Bièvre

Secretary

1989-1993 Dr. J. R. Moody

Members

1989-1993 Dr. Andrée Lamberty

1989-1993 Dr. K. J. R. Rosman

/ 1989-1993 Prof. J. Savory

Associate Members

/ 1989-1993 Dr. S. S. Brown

* 1983-1993 Dr. J. W. Gramlich

* 1983-1993 Prof. J. Versieck

/ Appointments approved for 2 years to 1991

* Periods of appointment 1989-1993 [correction]

III ORGANIC CHEMISTRY DIVISION

Division Committee

President

1985-1991 Prof. Irina P. Beletskaya

Vice-President

1987-1991 Prof. N. J. Leonard

Past-President

1981-1991 Prof. Sukh Dev

Secretary

1985-1993 Dr. W. J. Koch

Members

1987-1991 Prof. M. Ohno

1989-1993 Prof. J. C. Richer

1987-1991 Prof. G. Scorrano

1987-1991 Prof. K. P. C. Vollhardt

III.1 COMMISSION ON NOMENCLATURE OF ORGANIC CHEMISTRY

Titular Members

Chairman

1983-1991 Prof. P. A. S. Smith

Vice-Chairman

1981-1991 Prof. R. P. Panico

Secretary

1987-1991 Mr. E. W. Godly

Members

1987-1991 Prof. H. J. T. Bos

1987-1991 Prof. J. R. Bull

1989-1993 Dr. H. A. Favre

1989-1993 Dr. P. M. Giles, Jr.

1987-1991 Dr. O. Weissbach

Associate Members

1989-1993 Prof. F. Fariña Ø

1987-1991 Prof. P. Grünanger

* 1989-1993 Prof. H. Grünewald

1989-1993 Prof. R. J.-R. Hwu

1989-1993 Dr. Maria A. C. Kaplan

1987-1991 Prof. M. V. Kisakürek

1989-1993 Dr. W. Liebscher

1989-1993 Prof. M. M. Mikołajczyk

1989-1993 Dr. Ch. Schmitz Ø

1987-1991 Dr. D. Tavernier

1989-1993 Prof. J. G. Traynham

* NAO approval not granted

III.2 COMMISSION ON PHYSICAL ORGANIC CHEMISTRY

Titular Members

Chairman

1985-1991 Prof. P. Müller

Secretary

1987-1991 Prof. M. P. Doyle

Members

1987-1991 Prof. P. N. I. Ahlberg

1987-1991 Prof. J. M. McBride

1981-1991 Prof. O. M. Nefedov

1985-1993 Prof. M. Ōki

1989-1993 Prof. J. Shorter

Associate Members

1987-1991 Dr. T. A. Albright

1987-1991 Prof. W. Drenth

1989-1993 Prof. E. A. Halevi

1987-1991 Prof. V. I. Minkin

1987-1991 Prof. Y. Takeuchi

1985-1993 Prof. P. Van Brandt

1989-1993 Dr. J. R. Zdysiewicz

III.3 COMMISSION ON PHOTOCHEMISTRY

Titular Members

Chairman

* 1983-1993 Prof. Silvia E. Braslavsky

Secretary

1985-1991 Dr. D. F. Eaton

Members

1989-1993 Dr. R. Bonneau

1985-1993 Prof. M. G. Kuzmin

1989-1993 Prof. J. W. Verhoeven

Associate Members

1989-1993 Prof. D. R. Arnold Ø

1987-1991 Dr. J. D. Coyle

1983-1991 Dr. A. Heller

1989-1993 Prof. F. D. Lewis

1987-1991 Dr. E. A. San Román

1989-1993 Prof. F. Scandola

1989-1993 Prof. J. Wirz

* Period of appointment 1983-1991 [correction]

IV MACROMOLECULAR DIVISION

Division Committee

President

1983-1993 Prof. W. Heitz

Vice-President

1987-1993 Prof. J. Economy

Secretary

1985-1993 Prof. A. D. Jenkins

Members

1989-1993 Dr. P. Cefelin

1989-1993 Prof. J. E. Guillet

1989-1993 Prof. N. Ise

1987-1991 Prof. E. Maréchal

1987-1991 Prof. E. F. Oleinik

IV.1 COMMISSION ON MACROMOLECULAR NOMENCLATURE

Titular Members

Chairman

1979-1991 Dr. P. Kratochvíl

Secretary

1987-1991 Dr. W. J. Work

Members

1983-1991 Dr. R. E. Bareiss

1989-1993 Prof. K. Hatada

1985-1993 Dr. Claudine Noel

1987-1991 Prof. V. B. Shibaev

1989-1993 Dr. R. F. T. Stepto

1981-1991 Prof. U. W. Suter

Associate Members

1987-1991 Prof. J. V. Alemán

1987-1991 Dr. J. Kahovec

1987-1991 Dr. W. V. Metanomski

1989-1991 Prof. I. Mita

1987-1991 Prof. I. M. Papisov

1989-1993 Prof. T. Saegusa

1987-1991 Prof. L. Shi

1987-1991 Prof. S. K. Tripathy

IV.2 COMMISSION ON POLYMER CHARACTERIZATION AND PROPERTIES

Titular Members

Chairman

* 1983-1993 Dr. H. H. Meyer

Secretary

1985-1993 Mr. J. M. Cann

Members

1985-1993 Prof. M. Jozefowicz

1987-1991 Prof. R. W. Lenz

1989-1993 Dr. D. R. Moore

1987-1991 Prof. K.-H. Reichert

1987-1991 Dr. M. J. Richardson

1983-1991 Mr. P. Starck

Associate Members

1983-1991 Dr. B. C. Anderson

1989-1993 Prof. N. F. Bakeev

/ 1981-1993 Prof. V. A. Kabanov

1987-1991 Dr. H. Lange

1987-1991 Prof. T. Masuda

1987-1991 Prof. E. F. Oleinik

1985-1993 Prof. R. Qian

1987-1991 Prof. S. Russo

1989-1993 Dr. G. Schorsch

1983-1991 Prof. J. C. Seferis

1985-1993 Dr. J. Stejskal

1989-1993 Dr. R. F. T. Stepto

* Period of appointment 1983-1991 [correction]

/ Extension approved for 2 years

V ANALYTICAL CHEMISTRY DIVISION

Division Committee

President

1983-1993 Prof. G. den Boef

Secretary

1987-1993 Prof. G. Svehla

Members

1987-1991 Prof. K. Fuwa

1989-1993 Dr. B. Griepink

1987-1991 Prof. A. Hulanicki

1987-1991 Prof. J. Jordan

1989-1993 Dr. R. Kalvoda

1989-1993 Prof. D. Klockow

1987-1991 Prof. B. V. L'vov

1987-1991 Prof. A. Townshend

V.1 COMMISSION ON GENERAL ASPECTS OF ANALYTICAL CHEMISTRY

Titular Members

Chairman

1989-1991 Prof. F. Ingman

Vice-Chairman

* 1989-1991 Prof. R. E. Van Grieken

Secretary

* 1989-1991 Prof. W. E. van der Linden

Co-Secretary

1989-1993 Dr. C. L. Graham

Members

1989-1993 Dr. L. A. Currie

1989-1993 Dr. St. Glab

1989-1993 Dr. W. Horwitz

1989-1993 Prof. D. L. Massart

* 1989-1991 Dr. M. Parkany

Associate Members

* 1989-1991 Prof. P. S. Goel

* 1989-1991 Prof. Y. Gohshi

* 1989-1991 Prof. H. Müller

1989-1993 Prof. M. Otto

* 1989-1991 Prof. S. B. Savvin

* 1989-1991 Prof. G. J. Patriarche

* 1989-1991 Prof. J. W. Stahl

* 1989-1991 Dr. P. J. Worsfold

* Permitted to continue their terms of service in which they were appointed in 1987 on former Commissions V.1 and V.3

V.2 COMMISSION ON MICROCHEMICAL TECHNIQUES AND TRACE ANALYSIS

Titular Members

Chairman

1985-1993 Dr. D. E. Wells

Secretary

1987-1991 Dr. D. G. Westmoreland

Members

1983-1991 Prof. K. Biemann

1987-1991 Dr. W. H. Gries

1987-1991 Prof. M. Leroy

1989-1993 Dr. M. Morita

1989-1993 Dr. B. Ya. Spivakov

Associate Members

1983-1991 Prof. R. Dams

1985-1993 Dr. M. W. Linscheid

1985-1993 Dr. H. Muntau

1985-1993 Dr. M. J. Pellin

1987-1991 Dr. L. Reutergårdh

1987-1991 Dr. Barbara D. Sawicka

1987-1991 Prof. E. A. Schweikert

1987-1991 Dr. W. Wegscheider

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

Titular Members

Chairman

1983-1991 Dr. J. M. Mermet

Secretary

1985-1993 Dr. T. A. M. Ure

Members

1989-1993 Dr. D. S. Moore

* 1987-1993 Dr. N. S. Nogar

1989-1993 Dr. N. Omenetto

1989-1993 Prof. B. Schrade

1989-1993 Dr. T. Vo-Dinh

7-1986 11-1986 12-1986 1-1987 2-1987

1985-1995 Bill R. Stenger

1989-1995 FROM NO. 1. VOLUME ONE

1985-1995 Prof. S. I. WILLIS

1987-1991 DE. E. Feuing

+ 1989-1993 PROF. M. Zauder

+ Period of appointment ends in 1991 [12 year limit]
+ Period of appointment ends in 1997-1991 [12 year limit]

/ Approved for 3 years to 1991

V.5 COMMISSION ON ELECTROANALYTICAL CHEMISTRY

Titular Members

Chairman

1987-1991 Dr. R. A. Durst

Vice-Chairman

1985-1991 Prof. M. Senda

Secretary

1985-1991 Prof. K. M. Kadish

Members

1989-1993 Prof. R. P. Buck

1987-1991 Prof. M. Gross

1989-1993 Dr. K. Štulík

1987-1991 Dr. Klára Tóth

Associate Members

1989-1993 Prof. A. Bond

1989-1993 Prof. K. Cammann

1987-1991 Prof. M. Filomena Camoes

1987-1991 Dr. A. Fogg

1989-1993 Prof. W. Kutner

1989-1993 Prof. T. Kuwana

1989-1993 Dr. M. L'Her

1989-1993 Dr. G. Prabhakara Rao

1987-1991 Prof. Sandra Rondinini Cavallari

1987-1991 Prof. Y. Umezawa

1985-1993 Dr. H. P. van Leeuwen

1987-1991 Prof. E. Wang

V.6 COMMISSION ON EQUILIBRIUM DATA

Titular Members

Chairman

1987-1991 Prof. D. G. Tuck

Secretary

1985-1991 Prof. O. Yamauchi

Members

1989-1993 Dr. A. C. M. Bourg

1987-1991 Prof. A. Braibanti

1989-1993 Dr. T. Kiss

* 1987-1991 Dr. H. J. K. Powell

Associate Members

1989-1993 Prof. R. H. Byrne

1987-1991 Dr. B. Holmberg

1989-1993 Prof. S. Ishiguro

1985-1993 Prof. T. A. Kaden

1989-1993 Dr. S. H. Laurie

1987-1991 Dr. P. A. Manorik

1985-1993 Prof. R. B. Martin

1983-1991 Prof. P. Paoletti

1985-1993 Prof. R. Portanova

1989-1993 Prof. S. Sjoberg

* Period of appointment 1989-1993 Dr. H. K. J. Powell [correction]

V.7 COMMISSION ON RADIOCHEMISTRY AND NUCLEAR TECHNIQUES

Titular Members

Chairman

1983-1991 Prof. Darleane C. Hoffman (I)

Vice-Chairman

1987-1991 Prof. J.-P. Adloff (I)

Secretary

1987-1991 Prof. H. R. von Gunten (V)

Members

1985-1993 Prof. J. Foos (V)

1983-1991 Dr. K. S. Kasprzak (VII)

1987-1991 Prof. Y.-F. Liu (V)

1985-1993 Prof. I. Zvára (V)

Associate Members

1983-1991 Prof. H. J. Ache (I)

1985-1993 Prof. H. A. Das (V)

1987-1991 Dr. R. J. Ch. Hagemann (II)

1983-1991 Prof. G. Herrmann (I)

1985-1993 Prof. P. Karol (V)

1985-1993 Prof. W. Maenhaut (V)

1989-1993 Prof. H. Nakahara (V)

1987-1991 Prof. M. Sakanoue (V)

1989-1993 Mr. J. A. Tetlow (VI)

V.8 COMMISSION ON SOLUBILITY DATA

Titular Members

Chairman

1987-1991 Prof. J. W. Lorimer

Secretary

1983-1991 Dr. L. H. Gevantman

Members

1985-1991 Prof. R. Cohen-Adad

1987-1991 Dr. P. G. T. Fogg

1987-1991 Prof. W. Hayduk

1987-1991 Dr. G. T. Hefter

1987-1991 Prof. R. P. T. Tomkins

Associate Members

1987-1991 Dr. H. Akaiwa

1987-1991 Dr. R. W. Cargill

1985-1991 Prof. C. Y. Chan

1985-1991 Prof. J.-J. Couniou

1987-1991 Dr. Rosa Crovetto

1987-1991 Dr. Angela F. Danil de Namor

1987-1991 Prof. T. P. Dirkse

1987-1991 Dr. H. J. M. Grünbauer

1989-1993 Prof. C. Kalidas

1985-1991 Dr. Marie-Thérèse Saugier-Cohen-Adad

1987-1991 Dr. A. M. Szafranski

1989-1993 Prof. V. M. Valyashko

COMMISSION ON CHROMATOGRAPHY AND ANALYTICAL SEPARATIONS (LLTC)

Titular Members

Chairman

1989-1991 Prof. P. C. Uden

Secretary

1989-1991 Prof. C. A. M. G. Cramers

Members

1989-1991 Dr. H. M. Kingston

Associate Members

1989-1991 Prof. D. M. Everaerts

1989-1993 Dr. A. Marton

1989-1993 Dr. R. Smith

1989-1991 Prof. G. Vigh

1989-1993 Prof. Wei-Lu Yu

COMMISSION ON ENVIRONMENTAL ANALYTICAL CHEMISTRY (LLTC)

Titular Members

Chairman

1989-1993 Prof. J. Buffle

Secretary

1989-1993 Dr. H. P. van Leeuwen

Members

1989-1993 Prof. D. Dyrssen

1989-1993 Prof. G. Sposito

1989-1993 Prof. R. Tanner

Associate Members

1989-1993 Dr. R. Cleven

1989-1993 Dr. W. Davison

1989-1993 Dr. K. Hanselmann

1989-1993 Dr. G. G. Leppard

1989-1993 Dr. J. Nriagu

1989-1993 Prof. J. Tarradellas

1989-1993 Prof. A. Tessier

1989-1993 Prof. A. Zirino

VI APPLIED CHEMISTRY DIVISION

Division Committee

President

1981-1991 Dr. L. E. Coles

Vice-President

1987-1993 Dr. P. S. Steyn

Secretary

1985-1991 Dr. R. Greenhalgh

Members

1987-1991 Mr. J. A. R. Bates

* 1989-1993 Dr. Joyce L. Beare-Rogers

1989-1993 Prof. Ludmilla A. Golovleva

1989-1993 Dr. J. Miyamoto +)

1989-1993 Dr. J. Slanina

1989-1993 Mr. J. A. Tetlow

+) financial support from IUPAC not required

-) Approval given for 9 members for 2 years and
* Dr. Joyce L. Beare-Rogers approved for period of 1989-1991

VI.1 COMMISSION ON FOOD CHEMISTRY

Titular Members

Chairman

1983-1991 Dr. A. E. Pohland

Vice-Chairman

1987-1991 Dr. H. B. S. Conacher

Secretary

1983-1991 Dr. D. L. Park

Members

1985-1993 Dr. R. Battaglia

1987-1991 Dr. D. J. McWeeny

1985-1993 Dr. H. A. M. G. Vaessen

Associate Members

1987-1991 Dr. D. Arnold

1987-1991 Dr. R. L. Epstein

1985-1993 Dr. J. Fremy

1989-1993 Dr. S. S. A. Marina Miraglia

1987-1991 Dr. J. J. O'Rangers

1987-1991 Dr. I. Rosenthal

1985-1991 Dr. P. G. Thiel

1985-1991 Dr. T. Yasumoto

VI.2 COMMISSION ON BIOTECHNOLOGY

Titular Members

Chairman

1983-1991 Prof. M. Ringpfeil

Vice-Chairman

1989-1993 Dr. J. L. Fox

Secretary

1987-1991 Dr. Lila M. Gierasch

Members

1989-1993 Prof. A. Boronin

1985-1993 Dr. H. K. Kölbl

1985-1993 Dr. H. G. W. Leuenberger

1989-1993 Prof. Y. Yamada

Associate Members

1987-1991 Dr. R. Chaleff

1987-1991 Prof. J. W. Engels

1989-1993 Dr. J. M. Masson

1989-1993 Prof. M. Moo-Young

1989-1993 Prof. B. Nagel

1989-1993 Dr. S. Ramachandran

1985-1991 Prof. C. Wandrey

VI.3 COMMISSION ON OILS, FATS, AND DERIVATIVES

Titular Members

Chairman

1983-1991 Mr. W. D. Pocklington

Vice-Chairman

1987-1991 Dr. A. Dieffenbacher

Secretary

1987-1991 Mr. P. W. Hendrikse

Members

1989-1993 Dr. A. Karleskind

1985-1991 Dr. Éva Kurucz

1989-1993 Mrs. Anneli Visapää

1987-1991 Dr. G. Zwerenz

Associate Members

1987-1991 Dr. H. Brüschweiler

1989-1993 Mr. P. Dysseler

1985-1991 Prof. T. Hashimoto

1985-1991 Prof. Gunhild Hølmer

1983-1991 Drs. F. H. Koelman

1987-1991 Dr. G. Ostermann

1987-1991 Mr. M. Pike

VI.4 COMMISSION ON ATMOSPHERIC CHEMISTRY

Titular Members

Chairman

1983-1991 Prof. J. G. Calvert

Secretary

1985-1993 Dr. J. Slanina

Members

1987-1991 Dr. H. Akimoto

1985-1993 Dr. S. A. Penkett

1983-1991 Prof. H. I. Schiff

1987-1991 Prof. Xiaoyan Tang

1987-1991 Prof. P. Warneck

Associate Members

1987-1991 Prof. N. M. Bazhin

1987-1991 Dr. R. H. Brown

1989-1993 Mr. K. H. Eickel

1987-1991 Dr. J. A. Kerr

1989-1993 Prof. O. Lindqvist

1987-1991 Dr. D. E. Tevault

1989-1993 Dr. W. E. Wilson

VI.5 COMMISSION ON AGROCHEMICALS

Titular Members

Chairman

1987-1991 Dr. R. J. Hemingway

Secretary

1989-1993 Dr. P. T. Holland

Members

1983-1991 Dr. A. Ambrus

* 1989-1993 Dr. E. Dorn +)

1985-1991 Prof. Ludmilla A. Golovleva

1985-1991 Prof. R. M. Hollingworth

1989-1993 Prof. N. Kurihara

1989-1993 Dr. G. D. Paulson

Associate Members

1985-1993 Dr. S. Z. Cohen

1987-1991 Dr. B. Donzel

1989-1993 Dr. C. V. Eadsforth

1989-1993 Dr. R. Graney

1989-1993 Dr. A. W. Klein

1989-1993 Ms. Birgit Ohlin

1983-1991 Dr. S. Otto

/ 1983-1989 Dr. D. B. Sharp

1989-1993 Dr. R. D. Wauchope

+) financial support from IUPAC not required

* Approved reappointment as Associate Member until 1993

/ Delete from list, included in error

VI.6 COMMISSION ON WATER CHEMISTRY

Titular Members

Chairman

1987-1991 Dr. A. J. Dobbs

Secretary

Members

1983-1991 Prof. F. R. Malz

1987-1991 Dr. Miriam Waldman

Associate Members

1989-1993 Dr. K. R. Solomon

1989-1993 Mr. J. A. Tetlow

VII CLINICAL CHEMISTRY DIVISION

Division Committee

President

1981-1991 Prof. N. Montalbetti

Vice-President

1985-1991 Dr. J. O. Järvisalo

Secretary

1987-1993 Dr. H. P. Lehmann

Members

1989-1993 Mr. T. D. Geary

1989-1993 Dr. E. Magid

1987-1991 Dr. C. Naudin

1987-1991 Dr. J. Waldenström

1989-1993 Dr. H. G. J. Worth

VII.2 COMMISSION ON QUANTITIES AND UNITS

Titular Members

Chairman

1985-1993 Dr. H. Olesen

Secretary

1985-1993 Mr. M. Lauritzen

Members

1983-1991 Dr. D. R. Bangham

1983-1991 Prof. G. Férand

1987-1991 Dr. J. G. Hill

Associate Members

1989-1993 Dr. S. J. Bryant

1989-1993 Dr. X. Fuentes-Arderio

1985-1993 Prof. C.-H. de Verdier

VII.4 COMMISSION ON TOXICOLOGY

Titular Members

Chairman

1985-1993 Prof. Ph. Grandjean

Secretary

1987-1991 Dr. Rita Cornelis

Members

1987-1991 Dr. R. F. M. Herber

1989-1993 Dr. M. Jakubowski

1983-1991 Prof. E. Nieboer

1983-1991 Dr. Y. Thomassen

1987-1991 Dr. C. Veillon

Associate Members

1989-1993 Prof. A. Cavalleri

1989-1993 Dr. B. Heinzw

1989-1993 Dr. Andrée Lamberty

1987-1991 Dr. S. Rendić

1989-1993 Mr. M. L. Richardson

1989-1993 Dr. D. Templeton

1987-1991 Dr. L. A. Wright

COMMISSION ON INSTRUMENTATION AND SOFTWARE (LLTC)

Titular Members

Chairman

1989-1993 Mr. T. D. Geary

Secretary

Member

1989-1993 Prof. P. Bonini

COMMISSION ON BIOTECHNOLOGY IN CLINICAL CHEMISTRY (LLTC)

Titular Member

Chairman

1989-1993 Dr. M. Ferrari

Secretary

Member

SECTION ON MEDICINAL CHEMISTRY

Section Committee

President

1987-1991 Prof. C. G. Wermuth

Vice-President

1987-1991 Dr. B. Metcalf

Secretary

1987-1991 Dr. N. Koga

Members

1987-1991 Prof. R. G. Glushkov

1987-1991 Prof. H. König

1987-1991 Dr. A. V. Rama Rao