



IUPAC
ADVANCING WORLDWIDE CHEMISTRY

*International Union of
Pure and Applied Chemistry*

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Vice President: Prof. Bryan R. Henry (Canada)
Past President: Prof. Pieter S. Steyn (South Africa)
Secretary General: Prof. David StC. Black (Australia)
Treasurer: Dr. Christoph F. Buxtorf (Switzerland)

Executive Director: Dr. John W. Jost

IUPAC Secretariat
Mail: PO Box 13757
RTP, NC, 27709-3757 USA
Location: 104 T. W. Alexander Drive, Building 19
Research Triangle Park, NC 27709 USA
Phone: +1 (919) 485 8700
Fax: +1 (919) 485 8706
E-mail: secretariat@iupac.org
URL: <http://www.iupac.org>

Item 4: Announcement of Nominations for Union Officers and Bureau Members

Nominations were to be received by the Secretariat at Research Triangle Park by 20 June 2005 (Bylaw 2.221). The list of nominees received is given below.

According to Bylaw 2.222, the Bureau has the right to make additional nominations for which information shall be provided. When the number of nominations exceeds the number of vacancies, the Bureau may make recommendations to the Council for filling the vacancies. These recommendations are not binding on the Council, either for Officers or for Elected Members of the Bureau. The procedures for conducting the election ballots are specified in Bylaw 2.222. The Officers and members of the Bureau are elected by Council. The situation for each position is set out below:

President – Prof. Bryan R. Henry (Canada), Vice-President and President-Elect, becomes President on 1 January 2006 (Statute 4.2).

Past-President – Prof. Leiv K. Sydnes (Norway), President, becomes Past-President on 1 January 2006 and remains an officer (Statute 6.1) and a member of the Bureau for a period of two years (Statute 7.2).

Vice-President – Vacancy.

The Vice-President to be elected at the 43rd Council will be President-Elect, and will become President on 1 January 2008.

The following Nominations have been received.

Prof. S. Chandrasekaran (India)

Prof. K. Matsumoto (Japan)

Prof. N. Moreau (France)

Secretary General – Prof. David StC. Black (Australia) was elected to a four-year term at the 42nd General Assembly and continues in office until the end of 2007.

Treasurer – Dr. Christoph F. Buxtorf (Switzerland) was elected to a second four-year term at the 42nd General Assembly and continues in office until the end of 2007.

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Bureau - Six Vacancies (minimum).

According to Statute 7.2 the Bureau consists of the Officers, the Division Presidents, and no less than ten other members elected by Council, who are known as "Elected Members". Elected Members are elected for a four-year term, and are eligible for reelection to a second four-year term. No National Adhering Organization shall have more than one Elected Member on the Bureau. Statute 7.2 also states that "the principle of fair geographical representation of Members shall be taken into account".

At the conclusion of the 42nd Council in Ottawa, there were ten Elected Members on the Bureau. At the 43rd Council, the Bureau will make recommendations to Council as to the number of Elected Members (ten or more), who should be on the Bureau for the succeeding two years. At least six Elected Members will be elected at the 43rd Council in Beijing, *i.e.*, the minimum number of ten Elected Members (Statute 7.2) less the four Elected Members who continue in office until 2007.

Elected Members of Bureau whose terms end in 2007:

Dr. Anders Kallner (Sweden)
Prof. Werner Klein (Germany)
Prof. Nicole J. Moreau (France)
Prof. Oleg M. Nefedov (Russia)

Elected Members of Bureau, whose terms end in 2005 and who are eligible for reelection to a second four-year term:

Prof. Chunli Bai (China/Beijing)
Prof. S. Chandrasekaran (India)
Prof. Robert G. Gilbert (Australia)
Dr. Alan Smith (United Kingdom)

Elected Members of Bureau, whose terms end in 2005 and who are not eligible for reelection, but may be nominated for another office:

Dr. Edwin P. Przybylowicz (United States)
Prof. Gus Somsen (Netherlands)

The following Nominations have been received.

Prof. Chunli Bai (China/Beijing)
Prof. D. Berek (Slovakia)
Prof. S. Chandrasekaran (India)
Prof. P. De Bièvre (Belgium)
Prof. A. J. Mahmood (Bangladesh)
Prof. K. Matsumoto (Japan)
Prof. S. Penczek (Poland)
Dr. E. Reichmanis (USA)
Prof. I. Shopov (Bulgaria)
Dr. Alan Smith (United Kingdom)
Prof. M. C. E. van Dam-Mieras (Netherlands)

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If Prof. Moreau is elected Vice President there will be an additional vacancy on the Bureau. If Prof. Chandrasekaran or Prof. Matsumoto is elected Vice President there will be one less candidate for the Bureau.

Biographical sketches of the candidates can be found on the following pages.

ASSIGNMENT OF VOTES TO DELEGATIONS

An updated basis for the assignment of votes was approved at Guildford (Minute 1/95, 38th Council, see table below), and it became operative at Geneva in 1997. The table on the following page lists votes as they will be assigned at Beijing, based on the assumption that all 2004 National Subscriptions will have then been paid. NAOs in arrears on their National Subscription for 2004 or earlier as of the time of the elections are not eligible to vote at the Council.

National Subscription	Votes
GTE USD 40 000	6
LT USD 40 000 and GTE USD 20 000	5
LT 20 000 and GTE USD 10 000	4
LT USD 10 000 and GTE USD 5000	3
LT USD 5000 and GTE USD 2000	2
LT 2000	1

GTE = Greater Than or Equal to

LT = Less Than

**Delegation Vote Assignments, IUPAC General Assembly
20-21 August, Beijing**

NAO	NS (2004) USD (1000s)	Votes
Argentina	4.0	2
Australia	10.4	4
Austria	5.8	3
Bangladesh	1.0	1
Belgium	20.6	5
Brazil	24.3	5
Bulgaria	1.6	1
Canada	15.8	4
Chile	3.7	2
China/Beijing	40.1	6
China/Taipei	15.1	4
Croatia	1.0	1
Czech Republic	4.1	2
Denmark	6.5	3
Egypt	4.3	2
Finland	5.7	3
France	37.3	5
Germany	52.9	6
Greece	3.7	2
Hungary	3.7	2
India	19.6	4
Ireland	13.2	4
Israel	5.0	3
Italy	32.0	5
Japan	71.2	6
Korea, Republic of	23.1	5
Kuwait	1.0	1
Netherlands	19.2	4
New Zealand	4.3	2
Norway	4.9	2
Pakistan	3.1	2
Poland	6.7	3
Portugal	5.0	3
Puerto Rico	16.2	4
Russia	10.2	4
Serbia & Montenegro	1.0	1
Slovakia	2.9	2
Slovenia	3.4	2
South Africa	7.9	3

**Delegation Vote Assignments, IUPAC General Assembly
20-21 August, Beijing**

NAO	NS (2004) USD (1000s)	Votes
Spain	21.6	5
Sweden	9.3	3
Switzerland	17.0	4
Turkey	8.8	3
United Kingdom	28.0	5
United States	111.2	6

I U P A C

43rd IUPAC Council Meeting

Nominee for Vice President
and Member of the Bureau

Srinivasan Chandrasekaran (India)

Professor Chandrasekaran's research has been concerned with the development of new synthetic methodology for organic synthesis, synthesis of natural products, organometallic chemistry, catalysis, study of reaction mechanisms, and organic materials.



Srinivasan Chandrasekaran

Education and Career

Chandrasekaran earned his B.S. (1965), M.S. (1967), and Ph.D. (1972) degrees at Madras University in Madras, India. His doctoral supervisor was Prof. S. Swaminathan in the Department of Organic Chemistry. He held postdoctoral fellowships/associateships in the laboratories of Prof. E.J. Corey at Harvard University, Cambridge, MA, USA (1973–1975 and 1976–1977) and Dr. J.A. Edwards at Syntex Research, Palo Alto, CA, USA (1975–1976).

He is currently the chairman, Division of Chemical Sciences and professor, Organic Chemistry at the Indian Institute of Science, Bangalore, India. He was earlier the chairman of the Department of Organic Chemistry (1996–2003) and Amrut Mody Chair Professor of Chemistry. From 1978 to 1989, he worked in the Department of Chemistry at the Indian Institute of Technology, Kanpur, India, where he served as lecturer (1978–1980), assistant professor (1981–1985), and professor (1985–1989). He has been a visiting professor at the Australian National University, Canberra (1985); University of Karlsruhe, Germany (1987); RWTH, Aachen, Germany (1992, 1996); University Paris Sud, France (1998, 2001), and Chinese Academy of Sciences, Beijing (2001).

Chandrasekaran has published over 170 research papers in national and international journals. Over the years he has supervised 26 Ph.D students, 60 M.S. students and 40 postdoctoral fellows. He is a consultant to a number of

chemical and pharmaceutical industries in India and abroad.

IUPAC Involvement

Chandrasekaran has been an elected member of the IUPAC Bureau since 2002 and has been a member of the Project Committee. He also served on the IUPAC Commission on Nomenclature of Organic Chemistry (1993–1995) and is currently on India's IUPAC National Committee.

Related Professional Activities

Chandrasekaran has been a member of many committees and organizations: associate editor, Proceedings of the Indian Academy of Sciences (Chemical Sciences, 1991–2000); member, Sectional Committee, Chemistry, Indian Academy of Sciences (1991–1998); editor, 10th International Conference on Organic Synthesis, Bangalore (1994); member, Editorial Board, Indian Journal of Chemistry (1995–2001); member, Program Advisory Committee in Organic Chemistry, Department of Science and Technology, New Delhi (1995–2001); member, Research Committee on Chemistry and Technology, Council of Scientific and Industrial Research, Govt. of India (CSIR, 1995–2001); member, Council of Indian National Science Academy (1998–2000); convener, National Symposium in Chemistry, Bangalore (1999); member, Task Force on Green Chemistry, Govt. of India; secretary, Indian Academy of Sciences, Bangalore; vice president, Chemical Research Society of India. He also serves as a member on the Research Councils of a number of CSIR laboratories and leading academic institutions in India. He has also served as a member on the Board of Studies of a number of universities in India. Chandrasekaran has delivered more than 180 invited lectures and seminars at various national and international meetings, universities, and research institutions in India and overseas.

Awards

Chandrasekaran received the Basudev Banerji Medal and Prize from the Indian Chemical Society in 1988 and the Shanti Swarup Bhatnagar Prize from CSIR in 1989. He was Prof. A.B. Kulkarni Endowment Lecturer at the University of Bombay in 1992; Prof. N. Venkatsubramanian Endowment Lecturer at the University of Madras in 1993; Prof. T.R. Seshadri Memorial Lecturer at Delhi University in 1998; Prof. Siddappa 60th Birthday Commemoration Lecturer at Dharward University in 1999; Professor O.P. Vig Endowment Lecturer, Panjab University, Chandigarh in 2000, Jawaharlal Nehru Birth Centenary Lecturer of the Indian National Science Academy in 2001; 125 Years-Indian Association for the Cultivation of Science, Kolkata—Commemoration Lecturer in 2002; and Prof. Sukh Dev Endowment Lecturer, Pune University, in 2004.

He received the Silver Medal of the Chemical Research Society of India (2002), Medal of the Material Research Society of India (2004), and the Alumni Award for Excellence in Research in Science (2004). Chandrasekaran was appointed research fellow of the Indian National Science Academy (1985–1987); fellow of the Indian Academy of Sciences (1989); and fellow of the Indian National Science Academy (1992); honorary professor of the Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore (2000–present); and fellow of the Third World Academy of Sciences, Trieste, Italy (2000).

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Nominee for Vice President
and Member of the Bureau

Kazuko Matsumoto (Japan)

Professor Kazuko Matsumoto's research involves metal coordination chemistry and bioanalytical chemistry using metal complexes. She started her career as an inorganic chemist and has been expanding her expertise in designing and synthesizing new functional metal complexes such as fluorescent lanthanide labels for time-resolved detection in bioanalysis, and catalysis and electrical and magnetic properties of nanowire metal complexes of metal-metal bonds.



Kazuko Matsumoto

Education and Career

Matsumoto received her B.S. in 1972 and Ph.D. in 1977, both from the University of Tokyo. She started her academic career in 1977 as a research associate working with Prof. Keiichiro Fuwa at the University of Tokyo, and then moved to Waseda University as an associate professor in 1984. She was promoted to a full professor at Waseda University in 1989, and has served there ever since. During these years, she spent two years (1991–1992) at the Institute for Molecular Science (Japan) as an adjunct professor, and spent half a year (1993) with Prof. Steve Lippard at MIT as a visiting professor. In addition, she visited and gave lectures at major Japanese and foreign universities (Bari, Florence, Dortmund, Leiden, Bazel, California Institute of Technology, Stanford) as a visiting professor. She also has given invited lectures at many internationally renowned academic meetings. (She will be a lecturer at the IUPAC Congress in Beijing in August 2005.) She has published more than 200 scientific papers in analytical and inorganic chemistry and holds 40 patents.

IUPAC Involvement

Matsumoto has been a titular member on the Analytical

Chemistry Division (2002–2005) and is preparing a project on the definition of concentrations of biomolecules. In Japan, she is a member of the chemistry division of the Science Council of Japan, which is the corresponding organization for IUPAC in Japan.

Related Professional Activities

Matsumoto is a member of the Engineering Academy of Japan, and is also a member of the Council for Science and Technology Policy, cabinet office. For more than 10 years, she has served on the advisory board of major scientific journals including the Bulletin of the Chemical Society of Japan and the European Journal of Inorganic Chemistry. She also served as the vice president of the Japan Society for Analytical Chemistry (2001) and is now the chairperson of the international relations committee of the Chemical Society of Japan. She has worked as the national representative in FACS (the Federation of Asian Chemical Societies) and organized the EurAsia conference (an international conference between Asia and Europe) in Asia.

Awards

Matsumoto has earned honors for her outstanding contributions to chemistry, which include the Award for Promotion of Young Researchers from the Japan Society for Analytical Chemistry (1984), the Division Award from the Chemical Society of Japan (1989), and the Ichimura Award (2000).

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Nominee for Vice President

Nicole J. Moreau (France)

After 10 years of research in organic synthesis, terpenes, steroids, and sugars, Professor Nicole J. Moreau successfully designed the first purification, using affinity chromatography, of enzymes that inactivate aminoglycoside antibiotics. Her research is at the interface of chemistry and life sciences, and she continues to study the mode



Nicole J. Moreau

of action of antibiotics and the ways bacteria can resist them. She developed a mean throughput screening system in order to find molecules able to be active against resistant bacteria, for instance inhibitors of efflux pumps or of inactivating enzymes. She has also researched molecular pharmacology, structure-activity relationships and synthesis of analogues of active compounds together with molecular modeling and docking calculations. In 2005, she launched, together with CNRS and Rhodia, a new program on fine chemistry using bioconversions.

Education and Career

Moreau received an M.S. in physical chemistry from the University of Paris (Sorbonne). She obtained a doctorate in physical sciences (chemistry distinction) in 1967 from Orsay University.

Since 1999, Moreau has been a professor at Ecole Nationale Supérieure de Chimie de Paris (ENSCP), where she is the leader of the Laboratory of Biochemistry. From 1994–1999 she was a professor in the Laboratory of Molecular Research on Antibiotics at the Paris 6 University (Pierre and Marie Curie). In 1973, she was a postdoctoral fellow in the laboratory of Dr. J. S. Pitton at the Medical Microbiology Institute in Geneva, Switzerland. Moreau began service with the Centre National de la Recherche Scientifique (CNRS) in 1962, where she was “directeur de recherche” from 1979 to 1992. In 1972, Moreau joined the chemistry laboratory of

Prof. Le Goffic at Ecole Normale Supérieure in Paris, where she worked until 1993.

Moreau has authored more than 80 publications, given more than 90 conferences or oral presentations, and supervised 25 Ph.D and 22 M.S. students and 10 post-doctoral fellows. She is responsible for teaching at the interface of chemistry and life sciences at the Ecole Nationale Supérieure de Chimie de Paris and is a member of the Administration Committee of the French Society of Biochemistry and Molecular Biology.

IUPAC Activities

Since 2000, Moreau has been an elected member of the Bureau and also a member of the Project Committee. She has served as vice president and currently is general secretary of the French National Committee for Chemistry. She has been a member of the French Delegation since 1995.

Related Professional Activities

Moreau has held a number of leadership positions with leading chemistry institutions. She has served as chargé de mission, State Department of Research (Ministère de la Recherche), deputy director of the Drugs department (1984–1989) and has been chargé de mission (1993–1997), then deputy director (1998–2003), at CNRS, Department of Chemical Sciences. Since 2003, she remained chargé de mission for natural substances for the CNRS Chemistry Department and International Relationships Direction.

She was secretary (1989–1997), then president (1997–1999) of EUCHEM, European Chemistry; president of GESA; Study Group of Structure-Activity Relationships (1990); vice-president of the French National Committee for Chemistry, CNC, IUPAC NAO (1994–2002). In addition, she is a long-time member of the French Chemical Society, French Microbiology Society, and the French Biochemistry and Molecular Biology Society.

Awards

Moreau was awarded the Prix de l'Académie de Pharmacie, Paris, in 1974, and the Chevalier de l'Ordre National du Mérite, awarded by the State Department of Research, in 2002. In 2004 she received the Silver Medal of the International Foundation of la Maison de la Chimie.

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Nominee for Bureau

Chunli Bai (China)

Professor Chunli Bai is the president of the Chinese Chemical Society and executive vice president of the Chinese Academy of Sciences. Bai's research has involved molecular nanostructures and nanotechnology, scanning probe microscopy, and molecular self-assembly on the liquid and solid interfaces.



Chunli Bai

Education and Career

In 1978, Bai graduated from the department of chemistry, Beijing University. He received his M.S. in 1981 and Ph.D. in 1985 from the Institute of Chemistry of the Chinese Academy of Sciences (CAS). From 1991 to 1992, he was a visiting professor at Tohoku University in Japan. He performed postdoctoral research from 1985–1987 at the California Institute of Technology. He is an academician of CAS and a fellow of the Third World Academy of Sciences (TWAS). He has more than 300 research papers to his credit, and has authored 11 monographs and several book chapters either in English or in Chinese.

IUPAC Involvement

Bai has been an elected member of the IUPAC Bureau since 2002 and a member of the Executive Committee since 2004.

Related Professional Activities

Bai is chief scientist of the National Steering Committee for NanoScience and Nanotechnology, director of China National Center for Nanoscience and Technology, president of Graduate University of the Chinese Academy of Sciences, vice-president of the China Association for Science and Technology, vice-president of the Western Returned Scholars Association, vice-president of the Chinese Materials Research Society, and president of the Chinese Association for Young Scientists and Technicians. In addition, he serves as a member of the Academic Degrees

Awards and Honors

Bai is a recipient of the “International Medal” given by the London-based Society of the Chemical Industry and the TWAS 2002 Medal Lecture in Chemical Sciences. As a project leader, Bai has won more than 10 national, CAS-awarded, or ministerial prizes. He has received the titles of “National Advanced Worker,” “Young and Middle-Aged Specialists with Outstanding Contributions to the Country,” and “Top 10 Outstanding Youths in China.” He also has won National Awards for Young Chinese Scientists, Awards for Outstanding Young Scholars conferred by Hong Kong’s Qiu Shi S&T Foundation, and Awards for Outstanding Chinese Visiting Scholars from the Hong Kong Polytechnic University.

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Nominee for Bureau

Dušan Berek (Slovakia)

Professor Dušan Berek has been active in the field of high-performance liquid chromatography of synthetic polymers, developing new types of column packings, as well as unconventional methods for their evaluation. He has worked out several original “coupled” procedures for liquid chromatographic separation and characterization of complex polymer systems.



Dušan Berek

Education and Career

Berek graduated from the Faculty of Chemical Technology, Slovak Technical University in Bratislava in 1960. In 1966, he received his Ph.D. in physical chemistry from the Polymer Institute of the Slovak Academy of Sciences in Bratislava, Slovakia, and the Institute of Macromolecular Chemistry at the Academy of Sciences in Prague, Czech Republic. In 1991, he received his D.Sc. in Macromolecular Sciences from the Slovak Technical University and Slovak Academy of Sciences in Bratislava.

Since 1991, Berek has been head of the Laboratory of Liquid Chromatography Polymer Institute at the Slovak Academy of Sciences, where he has worked since 1960. Previously, Berek served as vice-director (1989–1990) and head (1980–1991) of the Department of Thermodynamics and Hydrodynamics of Polymer Systems. Prior to that he was head of the Department of Physical Chemistry (1966–1971).

He is author or co-author of two monographs, over 240 scientific papers in extenso, and chapters in books. He holds over 60 patents. Three of his patents were licensed to companies producing chromatographic materials and one to a company producing fillers for rubber. He has been an invited speaker at many universities and research institutions all over the world, and has delivered more than 300 lectures.

In addition, he has presented over 70 invited lectures and numerous regular contributions at international scientific meetings.

IUPAC Involvement

Since 1993, Berek has been chairman of the Slovak National Committee of Chemistry for IUPAC. From 1998–2003, he was the chair of the IUPAC Working Party on Molecular Characterization of Commercial Polymers. He has also been a member of the Commission on Chromatography (1998–2001) and a member of the Macromolecular Division Committee (2001–2003).

Related Professional Activities

Since 2005, Berek has been the vice president of the Slovak Chemical Society; he was president from 1997–1999 and from 2003–2004. In addition, he has been a member of the Board of the Federation of European Chemical Societies (1993–1996) and the Presidium of the Slovak Academy of Sciences (1992–1995). From 1991–1992 he was chairman of the Czecho-Slovak National Committee of Chemistry.

Berek has served on the organization committees of over 30 international conferences (14 times as chair) and on 12 international scientific boards of various symposia. Among the symposia he organized, four were under IUPAC auspices. He is a member of the editorial boards of four international journals: International Journal of Polymer Analysis and Characterization, International Journal of Polymeric Materials, Chemical Papers, and Current Analytical Chemistry.

Awards

Berek received the Gold Medal (1995) and Honorary Membership (2001) from the Slovak Chemical Society, Hanus Medal of Czech Chemical Society (2000), Commemorative Medal of the Polish Chemical Society (2003), and Gold Plaque of the Slovak Academy of Sciences (1998).

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Nominee for Bureau

Paul De Bièvre (Belgium)

Education

PhD at Gent University (Belgium)
1959

Assistant, then Lecturer at Gent
University 1959-1961



Paul De Bièvre

Professional Experience, Membership, and IUPAC Activities

Central Bureau for Nuclear
Measurements (1961-1998) of the
European Commission,
called since 1993: Institute for Reference Materials and
Measurements

Group Leader Isotope Mass Spectrometry and Isotope
Reference Materials (1976-1991)

Division Head, Adviser on Reference Materials (1991-1998)

Adviser on Traceability (1994-1998)

Adviser on "Metrology in Chemistry" (1998-2001)

Head of the Unit "Stable Isotope Measurements" at IRMM
(1991-1998).

Professor Antwerpen University (1972-1998) on Stable
Isotope Mass Spectrometry

Member, IUPAC International Commission on Atomic
Weights and Isotope Abundances ICAW (1971-...), then
CAWIA (...-...), now CIAAW (2001-...)

Chairman, IUPAC Subcommittee on the Assessment of the
Isotopic Composition of the Elements SAIC (1975-1983)
evaluating our present knowledge of the isotopic
composition of the elements.

Member of the IUPAC Subcommittee on Isotope Abundance
Measurements SIAM

Member of the IUPAC TICE project (Table of Isotopic
Composition of the Elements)

Member IUPAC Inorganic Division Committee (1985-1993)

Founder, then Chairman, then Member IUPAC Commission on Isotope-specific Measurements as References (in Div II) (1989-1998)

Project Leader of the IUPAC Project on 'Metrological Traceability of Measurement Results in Chemistry' (2001-...)

Chairman Annual Meeting of responsables of European Nuclear Analytical Laboratories in the European Research and Development Association (ESARDA) (1976-1996).

Founder of the Regular European Interlaboratory Measurement Evaluation Programme (REIMEP) (1977) (the first Metrological International Interlaboratory Comparison for U and Pu measurements)

Founder & Chairman Joint European Project for Primary Isotopic Measurements (JEPPIM) (1998-...)

Member IAEA Advisory Groups on "Reference Materials for the Nuclear Fuel Cycle" and on the "Quality of Safeguards Measurements"

Member of the International Scientific Advisory Committee of the Belgian Nuclear Research Centre (SCK/CEN) in Mol and President of the Departemental Advisory Committee "Nuclear Chemistry and Fuel Cycle" at the same Centre (1988-1997)

President of the Belgian National Committee on Pure and Applied Chemistry of the Belgian Academies (1988-2005).
Leader of the Belgian Delegation to IUPAC (1988-2005)

Member of the Comité Consultatif pour la Quantité de Matière (CCQM) of the "Comité International des Poids et Mesures" (CIPM) at BIPM (1995-...)

Delegate of ISO/REMCO to CCQM (at BIPM)

Founder of the International Measurement Evaluation Programme (IMEP) (1986) (the first non-nuclear Metrological International Interlaboratory Comparison);
IMEP programme leader 1988-1998

Co-founder of EURACHEM (1989); Chairman EURACHEM (1993-1995)

Co-founder (1992) and Member CITAC (Co-operation on International Traceability in Analytical Chemistry).

Founder of the Nuclear Signatures International Measurement Evaluation Programme (NUSIMEP) (the first Metrological International Interlaboratory Comparison for nuclear environmental measurements)

Editor-in-Chief "Accreditation and Quality Assurance" (SPRINGER Verlag) - Journal for Quality, Comparability and Reliability in Chemical Measurement (1996-...)

Member of the External Scientific Audit Team of the MiC Programme of the Physikalisch-Technische Bundesanstalt (PTB), the National Metrology Institute of Germany (July 2002),
both in Braunschweig and Berlin

External Adviser on Metrology in Chemistry in Mexico, Australia, Singapore, Chile, Brasil, Egypt, Japan, Slovenia, China, Croatia, (1996-...), Thailand

Member of the Council Committee on Reference Materials REMCO to ISO in Genève (1986-2005) (incl Chair Steering Group I: International Coordination & Harmonization)

Member of the Joint Committee on the Guides for Metrology at the BIPM (Bureau International des Poids et Mesures) in Paris, carrying out the revision of the "International Vocabulary of Basic and General Terms in Metrology" (1998-...)

Member of the Technical Advisory Group TAG 4 on Metrology to ISO (2001-...)

Over 400 published papers in all of the above fields.

Promotor of 10 PhD theses on Metrology in Chemistry by citizens of Belgium, France, Luxemburg, Germany, Hellas, Brasil.

Education & Training seminars on Metrology in Chemistry or VIM in Sydney (AU), Koebenhavn (DK), Zagreb (HR), Moskva (RU), Quito (EC), Singapore (SG), Maribor & Ljubljana (SI), Tallinn & Tartu (EE), Sao Paulo (BR), Helsinki (FI), Stockholm (SE), Teddington (UK), Santiago de Chile & Antofagasta (CL), Vilnius (LT), Praha (CZ), Warszawa (PL), Bratislava (SK), Beijing (CN), Al Qahera (Cairo, EG), Tel Aviv (IL), Torino (IT), Queretaro (MX), Daejon (KR in 2005), Bangkok (TH) (2004 & 2005), HongKong (HK) (2005)

Adviser to the Journal of the Chinese Mass Spectrometry Society (2003-...)

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Nominee for Bureau

Abu Jafar Mahmood (Bangladesh)

Professor Abu Jafar Mahmood, president of the Bangladesh Chemical Society, has more than four decades of experience in the teaching and practice of chemistry. His research interests comprise chemical kinetics, photochemistry, surface chemistry and catalyst characterization, polymer chemistry, renewable energy sources, and environmental chemistry. Currently his major



Abu Jafar Mahmood

research emphasis is on zinc oxide mediated degradation by visible light of a number of reactive dyes used by the fabric dyers of the country. This process holds promise for removing residual dyes from factory effluent.

Education and Career

Mahmood received M.S. degrees from the University of Dhaka in 1960 and from the University of Leeds in 1965, and a Ph.D. from Cambridge University in 1972. He joined the Department of Chemistry at Dhaka as a teaching fellow in 1961 and has continuously served the department ever since. He was chairman between 1988–1991 and recently from June 2002 to January 2005.

Mahmood has produced 60 papers that were either published in national and international journals or presented at conferences, seminars, and symposia at home and abroad. In addition, he has supervised a large number of M.S. and some Ph.D and M.Phil. students.

Related Professional Activities

Mahmood has been elected as a lifetime member of numerous organizations: Bangladesh Chemical Society, Bangladesh Association for Advancement of Science, Asiatic Society of Bangladesh, Physical Society of Bangladesh, Bangla Academy, and Catalysis Society of India. In addition, he is a fellow of the Royal Society of

Chemistry (London) and is a Chartered Chemist. Mahmood has played a leadership role in organizing many chemistry conferences in Bangladesh. Most recently he was chairman of the Organizing Committee for the Bangladesh Chemical Congress 2004. He was also chairman of the Organizing Committee for the National Workshop on Pesticide Residues, held in January 2003.

Since 2003, Mahmood has been editor of the Dhaka University Journal of Science, and since 1999 he has been one of the editors of (and contributors to) Bangla Academy Biggan Bishwakosh (Encyclopedia of Science in Bangla).

He has also held advisory or leadership positions on numerous committees and projects. From 1990–1997 he was chairman of the sectional committee on “Fine Chemicals” of the Bangladesh Standard Institution. In 1990, he worked out a plan of collaboration and formally signed a memorandum of agreement between Lamar University in Beaumont, Texas, USA, and Dhaka University for collaborative research in specific areas of chemistry. In 2000, he visited Utsunomiya University in Japan and initiated its collaboration with Dhaka University.

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I U P A C

43rd IUPAC Council Meeting

Nominee for Bureau

Stanislaw Penczek (Poland)

Professor Penczek's research activities have focused on kinetics, thermodynamics, and mechanisms of the polymerization processes, as well as on the synthesis of new polymer structures. Among his many accomplishments was establishing identical reactivities of ions and ion-pairs in cationic ring-opening polymerization at a time when the paradigm of higher reactivity of ions (free) was generally accepted as a dominating viewpoint. He also applied for the first time in macromolecular chemistry, dynamic NMR for studies of the ultra fast reactions of exchange between various ionic forms of active species. In addition, he developed a new general method of synthesis of soluble, highly branched (star shaped) polymers by catalytic reaction of macromolecular alcohols with bicyclic compounds (e.g., diepoxides) and methods of synthesis of simple, high molar mass phosphodiester chains with identical repeating units as in nucleic acids and teichoic acids.



Stanislaw Penczek

Education and Career

Since 1974, Penczek has been a professor and head of the Department of Polymer Chemistry at the Polish Academy of Science in Lodz. He received his Ph.D. in 1963 from the Industrial Polymer Institute (Warsaw and Leningrad) of the USSR Academy of Science. From 1964–1968, Penczek was head of the Industrial Polymer Institute at the Laboratory of Polymerization. From 1966–1967, he was a post-doctoral fellow under Prof. M. Szwarc at Syracuse University, New York, USA.

Penczek has been a visiting professor at nine universities in Europe and the United States. He has given invited lectures at 80 international meetings and made over 290 printed contributions, including 8 monographs and textbooks and 15 chapters in books and monographs.

IUPAC Involvement

Penczek was a titular member of the Macromolecular Division from 1998–2001 and has been an associate member of IUPAC since 2002. He was also chairman of the World Polymer Congress 2000—38th IUPAC International Symposium on Macromolecules. He has also been chairman of two, and co-chairman of four, international symposia sponsored by IUPAC.

Related Professional Activities

In 1998, Penczek was elected a member of the Polish Academy of Science. He is also a longstanding member of the Polish Chemical Society, of which he served as chairman of the Division of Kinetics (1978–1988) and chairman of the Polymer Division (1988–1998). From 1997–1999 he was president of the European Polymer Federation and in 1993 he was a titular professor of the French Academy of Science.

Penczek is a member of the editorial boards of 11 international polymer journals, and is co-editor of e-Polymers, the first fully electronic polymer journal.

Awards

Over the course of his career, Penczek has received numerous honors: awards from the Polish Academy of Science (1974, 1985, 1988, 1989); Medal of the University of Jena (1988); M. Skłodowska-Curie Prize (1990); Medal of the French Academy of Science (1993); Chevalier dans l'Ordre de Palmes Académiques, France (1998); Biannual International Award of the Belgian Polymer Group (2001); Eminent Professor of RIKEN, Japan (2001); International Award and Personal Medal of the Society of Polymer Science, Japan (2002); Otto Warburg Foundation Award, Germany (2003); and the Biannual M. and P. Curie Joint Prize of the French and Polish Chemical Societies (2004). Penczek is Doctor of Honoris Causa of the University Pierre and Marie Curie in Paris (2003) and of the Russian Academy of Sciences (2004). The same year he was given a title of honorary professor of the Jagiellonian University in Krakow (Poland).

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I U P A C

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Nominee for Bureau

Elsa Reichmanis (USA)

Dr. Reichmanis' research interests include the chemistry, properties, and application of materials technologies for photonic and electronic applications, with particular focus on polymeric and nanostructured materials for advanced communications technologies



Elsa Reichmanis

Education and Career

Reichmanis is Bell Labs fellow and director of the Materials Research Department at Bell

Laboratories, Lucent Technologies. She received her Ph.D. and B.S. degrees in chemistry from Syracuse University, and joined Bell Labs in 1978 after completing a post-doctoral fellowship program.

IUPAC Involvement

Reichmanis has been active in IUPAC throughout her career. She was a member of the U.S. National Committee for IUPAC for six years and has served on the U.S. delegation to the IUPAC General Assembly three times. She has been active in the Macromolecular Division of IUPAC, having served a term as a titular member.

Related Professional Activities

In 2003, Reichmanis was president of the American Chemical Society (ACS). She is past-chair of the ACS Polymeric Materials Science and Engineering Division and has served as a member of the executive committee of the division since 1986. She is a member of the ACS Committee on Science and has served on the ACS Publications Committee and the Chemical and Engineering News Editorial Board, and is associate editor of the ACS journal Chemistry of Materials.

In other technical capacities, Dr. Reichmanis has served as a

member of the Japanese Technology Evaluation Program Panel in Advanced Materials, the U.S. National Research Council (NRC) Committee to Survey Materials Research Opportunities and Needs for the Electronics Industry, and the NRC Committee on Policy Implications on International Students and Postdoctoral Scholars in the United States. She is also a former member of the NRC National Materials Advisory Board. Currently, she serves on the NRC Board on Chemical Sciences and Technology.

Awards

Reichmanis has received numerous awards, including the 1993 Society of Women Engineers Achievement Award. She was elected to the U.S. National Academy of Engineering in 1995 and named Bell Laboratories Fellow that year. She was the 1996 recipient of the ASM Engineering Materials Achievement Award, and was elected Fellow of the American Association for the Advancement of Science in 1998. She was awarded the 1999 ACS Award in Applied Polymer Science, the 2001 Society of Chemical Industry Perkin Medal, and the Arents Medal from Syracuse University. In 2004, she was elected as a Foreign Member of the Latvian Academy of Sciences. She is also a member of the American Physical Society, the Materials Research Society, the Institute of Electrical and Electronics Engineers, and the Society of Photo-optical Engineers.

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I U P A C

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Nominee for Bureau

Ivan Schopov (Bulgaria)

Education

1952-1958, M.Sc. Dipl. Eng. - Higher Institute of Chemical Technology, Sofia, Bulgaria

1968, Ph.D. - Institute of Organic Chemistry, Bulgarian Academy of Sciences

1982, D.Sc. - Institute of Organic Chemistry, Bulgarian Academy of Sciences

Command of Languages: Bulgarian, English, German, French, Russian- fluently



Ivan Schopov

Professional Experience

1958-1971, Research Fellow, Institute of Organic Chemistry, Bulgarian Academy of Sciences

1971-1983, Senior Research Fellow, Institute of Organic Chemistry, Bulgarian Academy of Sciences

1984- , Professor, Institute of Polymers, Bulg. Acad. Sciences

1989-2003, Director, Institute of Polymers, Bulgarian Academy of Sciences

Research Activities

Areas of Research Interests

-Synthesis and structure properties relationship in conjugated polymers;

-New synthetic methods in polymer chemistry - carbonyl-olefin exchange reaction;

-New electrically conductive polymers; Polymers for fuel cells membranes

Publications

More than 120 papers and 23 patents in the above fields

Visiting Professor

1983, 1990, 1993, 1994: Institute of Organic Chemistry, Free University, Berlin, Germany

1992: Institute of Organic Chemistry, Technical University

of Graz, Austria

1995: Max Planck Institute of Polymer Research, Mainz,
Germany

Membership in Scientific Committees

since 1965 - member, Bulgarian National Symposia on
Polymers (every 3 years)

since 1990 - President, Bulgarian National Symposia on
Polymers (every 3 years)

1998, 2000, 2002, 2004 - member, International Conference
of the Chemical Societies of the South-Eastern European
Countries

1994, 1996, 1998, 2001, 2003, 2005 - member, European
Polymer Federation Symposia on Polymeric Materials,
European Polymer Congress

1995, 1997, 1999, 2003, 2005 - member, International
Symposia on Macromolecule-Metal Complexes

Membership

since 1971 - member, Société Française de Chimie

since 1992 - member, American Chemical Society

since 1992 - President, Bulgarian Polymer Society

since 1999 - President, Union of Chemists in Bulgaria

IUPAC Activities

1991-1993, 2002- National Representative on the
Macromolecular Division

European Activities

1992-1995, National Coordinator of Programmes PECO,
Copernicus

1999-2002, Programme Committee Member and National
Contact Person, Improving Human Potential, Fifth
Framework Programme of EU

2003, Programme Committee Member, Human Resources
and Mobility, Sixth Framework Programme of EU

Plenary and Invited

Lectures on International

Meetings and Seminars

Polymer Meetings: 1974 Leipzig, Germany; 1975 Frenstadt,
Czechoslovakia; 1977 Varna, Bulgaria; 1977 Vilnius,

USSR; 1984 Merseburg, Germany; 1988 Bucharest,

Rumania; 1989 Potsdam, Germany; 1990 Gargnano, Italy;

1990 Pyongyang, North Korea; 1991 Lucerne, Switzerland;

1992 Hilton Head, USA; 1994 Potsdam, Germany; 1995

Nancy, France; 1996 Agia Pelagia, Crete, Greece; 1997

Leipzig, Germany, 1998 Halkidiki, Greece; 1999 Calcutta,

India; 2001 Zlatibor, Yugoslavia

Seminars at Universities and Research Institutes

Austria (1988 Vienna, 1992 Graz); Czechoslovakia (1977

Prague); China (1988 Beijing, Tianjin); Germany (1973, 1983, 1990, 1993, 1994 Berlin, 1981 Bremen, 1983 Freiburg, 1983, 1987, 1995, 2001 Mainz, 1985 Teltow, Dresden, 1994 Hamburg); Greece (1981 Thessaloniki, 1990 Iraklion, Athens); Japan (1986 Tokyo, Wako, 1988 Tsukuba, Osaka, Tokyo); Poland (1977 Warsaw); Spain (2003 Madrid); Thailand (1988 Bangkok); USA (2002 New York); Yugoslavia (1986 Belgrade).

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I U P A C

43rd IUPAC Council Meeting

Nominee for Bureau

Alan Smith (United Kingdom)

For more than 30 years, Dr. Smith has held leadership positions in the chemical industry. Most of his career was spent with Laporte, but he also worked for BDH/Merck for and started a consulting company.



Alan Smith

Education and Career

Smith gained his B.Sc. (Hons.) in chemistry at Queen Mary College, University of London in 1965, during which time he had his first publication while still an undergraduate. He stayed on there and in 1968 received a Ph.D. in physical organic chemistry. He was then awarded a NATO Postdoctoral Fellowship for two years (1968–1970) and spent the first year on research into heterocyclic chemistry at the Technical University in Delft, Netherlands. The second year was spent in the School of Pharmacy, Nottingham University.

He joined the staff of the University of East Anglia (1970–1972), where he lectured and carried out research for the International Institute of Synthetic Rubber Producers. From 1972 to 1987, he worked at Laporte, during which time it became a leader in specialty chemicals. As Head of Research and Development, he had worldwide responsibilities for Laporte's technology, and he also looked after their laboratories for Interlox, Laporte's joint venture with Solvay.

From 1987 to 1991, he was on the Board of BDH/Merck in the UK, where he was technical director and ran their Advanced Materials Business. From 1991 to 1996, he returned to Laporte as the head of Group Technology, with responsibilities for worldwide technical matters, especially relating to their extensive program of acquisitions.

In 1996, he set up AZTECH Consultancy, which advises on

scientific technical matters and acquisitions and mergers, and included the post of part-time technical director for BIP, Ltd. He is currently actively involved in UK government projects, the main one is their initiative on nanotechnology. He also carries out roadmapping strategies for the South African government.

IUPAC Involvement

Smith is a titular member of the Committee on Chemistry and Industry, which he has been a part of since 1994. From 1995 to 1999, he was on the Editorial Advisory Board for Chemistry International. He is also a titular member of the CHEMRAWN Committee, which he has been a member of since 1998. From 1997 to 2001, Smith was a delegate for the UK's National Committee, and in 2001 he was chairman of the UK delegation. Since 2002, he has been a member of the Bureau and a member of the Project Committee. He is also currently chairman of the Future Actions Committee for the Chemistry for Water CHEMRAWN conference held in Paris in 2004.

Related Professional Activities

Smith served on the Chemical Industry Association's Science, Education, and Technology Committee from 1986 to 1996. He is past president of the Industrial Affairs Division of the Royal Society of Chemistry, and is also on the following RSC committees: Annual Conference Committee, Innovation Team Award Committee, and the Research Fund Committee. He is a member of the Industrial Advisory Boards for Chemistry at Imperial College and Bristol University, and lectures at the University of Strathclyde and Nottingham University. He was on a CBI task force to obtain industrial input for the next Research Assessment Exercise for UK universities. He is on the Board of the latest Faraday Partnership on Colloids, established by the UK Government. From 1995 to 1999, he was on the Chemicals Panel of the Government's Foresight exercise. From 1999 to the present, he has been on the Materials Panel, and continues to lecture extensively on foresight. He is a fellow of the Royal Society of Chemistry and a fellow of the Linnean Society.

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I U P A C

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Nominee for Bureau

Maria C.E. (Rietje) van Dam-Mieras (The Netherlands)

Since 1993, Professor Maria C.E. van Dam-Mieras has been chair of Natural Sciences at the Open University of The Netherlands in Heerlen. In this position and other leadership roles, her activities have involved higher education in sustainability and globalization, chemistry curriculum in secondary education, biotechnology, environmental science, and knowledge transfer.



Maria van Dam-Mieras

Education and Career

Prof. van Dam-Mieras studied biochemistry and inorganic chemistry at the University of Utrecht in The Netherlands and received her Ph.D. from the same university in 1976. She started her academic career at the Limburg University in Maastricht, where her research was focused on blood coagulation and vascular pathology.

In 1983 she joined the Faculty of Natural Sciences at the newly founded Open University of The Netherlands in Heerlen, where she developed course materials in biotechnology, pollution prevention, and sustainable development. Also she was involved in several research programs of the European Union (COMETT, TEMPUS, PHARE, and SOCRATES). In 1992 she was appointed to the chair of Natural Sciences at the Open University.

In 1996, van Dam-Mieras became rector of the Open University. In 1997, she was appointed chair of the Copernicus Task Group of the European Association of University Rectors. The work of the Task Group led to the formation of “Copernicus-campus,” a network of European Universities dealing with the role of higher education in sustainability and globalization. From 1995-2001 she was a member of the Scientific Advisory Board of the “Deutsches Institut für Fernstudien Forschung” at the University of

Tübingen in Germany. In 2000, she became a member of the Supervisory Board of the Institute of Environmental Science of the University of Antwerp in Belgium, and since 2003, she has been a member of the Board of Trustees of Lüneburg University in Germany.

IUPAC Involvement

Prof. van Dam-Mieras is a member of the joint ad-hoc Committee for IUPAC of the Royal Netherlands Chemical Society (KNCV) and the Royal Netherlands Academy of Sciences. Since 2003, she has been a board member of the KNCV and was previously president elect, president, and immediate past president.

Related Professional Activities

From 1998 until 2003 van Dam-Mieras was a member of the national "Scientific Advisory Council for Government Policy" in The Netherlands. Since 1997 she has been a member of the Board of Commissioners of the "Akzo Nobel Nederland" concern. In 2000 she joined the Board of Trustees of the Dutch organization TNO (Applied Scientific Research) and since 2001 has held a position on the societal advisory board of the Division on Chemical Sciences of the organization NWO (Netherlands Scientific Research). In 1995 she was a member of the working group that developed the outline for the new natural sciences program in Dutch Secondary Education, and since 2002, has been a member of the working group developing the outline for a new chemistry curriculum in secondary education. Since 2003, she has been chairperson of the Dutch-Flemish Association of Science Centres.

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