

Bookworm

- Biological and Synthetic Polymer Networks and Gels*, 31(1)
Fundamental Toxicology, 24(4)
Macromolecular Symposia—recent volumes, 24(4)
Magnituds, Unitats i Símbols en Química Física, 31(1)
Obsessive Genius: The Inner World of Marie Curie, reviewed by S. Penczek, 30(5)
Organometallics in Organic Synthesis, 27(3)
Philosophy of Chemistry: Synthesis of a New Discipline, reviewed by S. Weininger, 33(5)
Special Topic Articles Featuring the 2005 Winners of the IUPAC Prize for Young Chemists, 25(3)
The International System of Units (SI), 8th edition, 30(5)
Volume G: Definition and Exchange of Crystallographic Data, 32(5)

Conference Call

- Advanced Materials and Polymer Characterization, by Michael Hess, 39(5)
 Advanced Materials—WAM III, by Piet Steyn and John Corish, 35(1)
 Analytical Chemistry and Chemical Analysis, by Vladimir Zaitsev, 34(2)
 Analytical Spectroscopy, by René Van Grieken, 37(5)
 Carotenoids by George Britton, 38(2)
 Chemical Thermodynamics, by Andrey Ya. Borschevsky and Svetlana S. Melkhanova, 28(3)
 Chemistry for Agriculture, by Adam Pawelczyk, 35(5)
 Chemistry in Kenya—Its Contribution to a Healthy Environment and Socio-Economic Development, by Sidney F.A. Kettle, 33(3)
 European Science Education Research, by Roser Pintó, 31(4)
 Food and Drug Administration—100 Years of Service, by Laure Joumel, 41(5)
 Green Chemistry: A Tool for Socio-Economic Development and Environmental Protection, by Pietro Tundo and Kenneth R. Seddon, 32(6)
 Green/Sustainable Chemistry by M. Kidwai, 37(5)
 Heterocyclic Chemistry, by Girolamo Cirrincione and Anna Almerico, 31(3)
 Innovation in Chemistry, by Xibai Qiu, 32(1)
 Ionic Polymerization, by S. Sivaram, 30(4)
 Macromolecule-Metal Complexes, by Francesco Ciardelli and Giacomo Ruggeri, 34(2)
 Molecular Mobility and Order in Polymer Systems, by Anatoly Darinskii, 32(3)
 New Directions in Teaching, Learning, and Evaluating the Chemical Sciences at the Tertiary Level, by

- Neelakanthi E. Gunawardena, 32(4)
 New Science Education Assessment: The Challenge by Laure Joumel, 34(4)
 Novel Materials and Synthesis, by Yuping Wu, 35(2)
 Photodynamics, by Jesus Rubayo Soneira, 36(5)
 Polymer Gels and Networks, by Miroslava Duskova and Michal Ilavsky, 30(4)
 Polymers and Organic Chemistry, by Shinichi Itsuno, 33(6)
 Polymers for Advanced Technologies, by György Bertalan, György Marosi, and Andrea Toldy, 28(3)
 Polymers for Africa, by Dhanjay Jhurry, 36(2)
 Solubility Phenomena, by Heinz Gamsjaeger and Wolfgang Voigt, 31(6)
 Solution Chemistry, by Vojko Vlachy, 34(1)
 ThermoML, by Michael Frenkel, 38(5)
 Young European Chemists, by Leiv K. Sydnes, 36(1)

Features

- Art and Science: Looking in the Same Direction, by Maria Clara F. Magalhães and Rosa Maria Oliveira, 4(2)
 Beyond Classical Chemistry: Subfields and Metafields of the Molecular Sciences, by Jesper Sjöström 9(5)
 Chairing Scientific Symposia, by Roger Fenwick and Leiv K. Sydnes, 4(5)
 Chemists' Understanding of the Public, by Peter Mahaffy, 14(4)
 China's Petrochemical Technologies, by Jiming Wang, 4(3)
 Frontier Science in the Middle East, by John M. Malin, 9(2)
 GEOTRACES—Chemistry Takes Center Stage in Marine Science, by David Turner, 4(6)
 GreenFacts: Communicating Science Information Clearly, by Manuel Carmona Yebra, 12(2)
 Introducing EuCheMS, The European Association for Chemical and Molecular Sciences, by Gábor Náray-Szabó, 8(3)
 Nanotechnology: Lessons from Mother Nature, by Alan Smith, 10(6)
 Science Across the World: Exploring Science Locally and Sharing Insights Globally, by Marianne Cutler, 8(4)
 The Ice that Burns: Burning Questions About Gas Hydrates, by Barbara Maynard, 3(4)
 The Irrationality of Being: Fear of All Snakes, Spiders, . . . and Chemicals, by David A. Evans, 12(4)
 Tools of the Trade: The IUPAC International Chemical Identifier (InChI): A New Standard for Molecular Informatics, by Alan McNaught, 12(6)

Using InChI, by Jeremy G. Frey, 14(6)
 Tools of the Trade: The IUPAC Stability Constants Database, by Leslie D. Pettit, 14(5)
 Would Einstein Have Approved?—A Discussion About the International Year of Physics, Minella Alarcon's Interview with Judy Franz, Martial Ducloy, Francis Allotey, and Masno Ginting, 6(6)

Internet Connection

Chemical Terminology at Your Fingertips, by Miloslav Nic, Jiri Jirat, and Bedrich Kosata, 28(6)
 Free Information Resources for Chemists, by Leslie Glasser, Part 1, 26(4); Part 2, 29(5); Part 3, 30(6)
 TOXNET—Information Resources and Services in Toxicology, by John Duffus, 27(4)

IUPAC Wire

2006 IUPAC Prizes for Young Chemists, 17(4)
 37th International Chemistry Olympiad 2005, 19(1)
 ACD/Labs' Free Naming Software Service Generates 200 000 IUPAC Names via the Web, 21(2)
 Alexandra Navrotsky Awarded the 2006 Rossini Lecture, 18(2)
 Capacity Building in Science, 18(5)
 Choogle Search Engine Integrates ChemSketch, 21(2)
 COCI Corner, 17(4)
 David W.C. MacMillan is to be Awarded the 2006 Thieme-IUPAC Prize, obc(3)
 Dewen Zeng Receives the 2006 Franzosini Award, 23(6)
 Essential to You, 20(1)
 Four Awards, One Passion: Chemistry, 19(5)
 In Memoriam—Allan Ure, 21(5)
 In Memoriam—Dale B. Baker, 22(2)
 InChI 1.01, 23(6)
 Industry and IUPAC Meeting Halfway, 21(6)
 IUPAC Elections for the 2008-2009 Term, 21(6)
 IUPAC President Attends the International Chemistry Olympiad, 22(6)
 Malcom F.G. Stevens is Awarded the First IUPAC-Ritcher Prize, 18(5)
 Memorandum on Cooperation with UNESCO, 19(4)
 Permanent Access to Scientific Information in Southern Africa, 19(4)
 Safety Training Program—Call for Host Companies, 21(5)
 Safety Training Program—Call for Applicants, 20(2)
 Strengthening International Science—A Recurring Catchphrase from ICSU, 21(1)
 The XML Gold Book Online, 20(6)

The Year of . . . 19(2)
 Two New CAs Join IUPAC, 20(1)
 Young Chemists to the 41st IUPAC World Chemistry Congress, 20(6)

Making an impact

Atomic Force Microscopy and Direct Surface Force Measurements, 32(2)
 Evaluated Kinetic Data for Combustion Modeling, 30(1)
 Guidelines for NMR Measurements for Determination of High and Low pKa Values, 24(3)
 Guidelines for Terminology for Microtechnology in Clinical Laboratories, 24(3)
 How to Access Structure and Dynamics of Solutions: The Capabilities of Computational Methods, 21(3)
 JCAMP-DX for Electron Magnetic Resonance, 23(3)
 Measurement and Interpretation of Electrokinetic Phenomena, 29(1)
 Nonspecific Sensor Arrays ("electronic tongues") for Chemical Analysis of Liquids, 32(2)
 Postgenomic Chemistry, 29(1)
 Reference Data for the Density and Viscosity of Liquid Aluminum and Liquid Iron, 20(3)
 Standards, Calibration, and Guidelines in Microcalorimetry. Part 2. Calibration Standards for Differential Scanning Calorimetry, 27(6)
 Supramolecular Assemblies with DNA, 33(2)
 The International Harmonized Protocol for the Proficiency Testing of Analytical Chemistry Laboratories, 20(3)
 Uncertainty Estimation and Figures of Merit for Multivariate Calibration, 23(3)
 XML-Based IUPAC Standard for Experimental, Predicted, and Critically Evaluated Thermodynamic Property Data Storage and Capture, 22(3)

Mark Your Calendar

Listing of IUPAC Sponsored Conferences and Symposia, 42(1), 43(2), 38(3), 39(4), 43(5), 36(6)

Officers' Columns

A Balance—Difficult to Keep, Christoph Buxtorf, 2(4)
 Chemistry—A Core Science with a Political Dimension, Leiv K. Sydnes, 2(5)
 Encouraging Involvement Among Chemists, David StC. Black, 2(2)
 IUPAC Within and Without, Bryan Henry, 2(6)
 IUPAC: An Optimistic Future, Bryan R. Henry, 2(1)
 The IUPAC Project System Revisited, Gus Somsen, 2(3)

The Project Place

- Adjustment, Estimation, and Uses of Equilibrium Reaction Constants in Aqueous Solution, 27(5)
- Analysis and Remediation of Arsenic Contamination in Groundwater, 14(3)
- Biophysico-Chemical Processes Involving Natural Nonliving Organic Matter in Environmental Systems, 24(6)
- Calibration of Organic and Inorganic Oxygen-Bearing Isotopic Reference Materials, 29(2)
- Chemical Education: Responsible Stewardship, 23(2)
- Defining a Data Standard for Near-Infrared Spectroscopy and Chemometrics, 12(3)
- Design of Polymer Education Materials for French-Speaking Countries, 27(5)
- Determination of Selenomethionine in Selenized Yeast Supplements, 24(5)
- Developments and Applications in Solubility, 22(1)
- Distance Learning in Toxicology, 25(1)
- Distance Learning in Toxicology: Effective Teaching through Technology, 20(4)
- e-Quiz for Promoting Chemical Education, 22(1)
- Flying Chemists Program—A Visit to India, 24(1)
- Global Climate Change—Translation and Dissemination of a Monograph for Secondary Schools, 25(1)
- Glossary of Terms Related to Solubility, 22(1)
- Herbal Medicine—Development of Methodologies and Protocols for Documentation, Evaluation of Safety and Efficacy, and Standardization, 17(3)
- International Funding for Chemical Research, 20(4)
- IUPAC Stability Constants Database Update, 26(1)
- Microstructure and Properties of Thermotropic Liquid-Crystalline Polymer Blends and Composites, 28(2)
- Nomenclature of Phosphorus-Containing Compounds of Biochemical Importance, 23(5)
- Putting Experimentation Back into Science Education, 22(4)
- Raising Awareness of the Chemical Weapons Convention and the Multiple Uses of Chemicals, 18(3)
- Selection and Use of Proficiency Testing Schemes for Limited Number of Participants (Chemical Analytical Laboratories), 24(5)
- Solubility and Thermodynamic Properties Related to Environmental Issues, 23(5)
- Solubility Data Series: Transition and 12 to 14 Main Group Metals, Actinide, and Ammonium Halates, 23(1)

- Teaching High-Temperature Materials Chemistry at the University, 26(6)
- Terminology for Self-Assembly and Aggregation of Polymers, 23(5)
- The Chemistry Clearing House as a Way to Better Chemistry Teaching, 25(6)
- Trace Elements Analysis: Role of Grain Size Distribution in Solid Reference Materials, 24(6)
- Validation of Qualitative and Semi-Quantitative (Screening) Methods by Collaborative Trial, 29(2)
- Young Ambassadors for Chemistry in Korea, 25(5)
- Young Ambassadors for Chemistry, 25(2)

Provisional Recommendations

- Definitions of Terms Relating to the Structure and Processing of Inorganic and Polymeric Gels and Networks, 19(3) and 23(4)
- Explanatory Dictionary of Key Terms in Toxicology, 30(2) and 19(3)
- Glossary of Terms Relating to Pesticides, 30(2) and 19(3)
- Glossary of Terms Used in Photochemistry, 28(1) and 31(2)
- Glossary of Terms Used in Toxicology, 23(4) and 28(5)
- Guidelines for Potentiometric Measurements in Suspensions—Practical pH Measurements in Soil Suspension, 23(4) and 28(5)
- JCAMP-DX for Electron Magnetic Resonance, 27(1)
- Nomenclature for Rotaxanes, 31(2)
- Quantities, Units, and Symbols in Physical Chemistry, 28(1) and 31(2)
- Standard Definitions of Terms Relating to Mass Spectrometry, 26(6)
- XML-Based IUPAC Standard for Experimental, Predicted, and Critically Evaluated Thermodynamic Property Data Storage and Capture (ThermoML), 27(1)

Up for Discussion

- “Inner Chemical Life” of Solids by Joachim Maier, 4(1)
- Can Ambiguous Terminology Cause a Barrier to Trade? letter by William Horwitz and reply by Paul De Bièvre, 15(2)
- Chemistry Enrollment in Germany: Bucking the Trend, by Terry Mitchell, 18(1)
- Emerging Issues in Developing Countries: Maintenance of Scientific and Technical Equipment—Challenges Faced by African Institutions, by Dzenko Mzengeza, 16(5)

Emerging Issues in Developing Countries:

Standardization of Analytical Approaches and Analytical Capacity-Building in Africa, by Robert Maybury, Walter Benson, and David Moore, 17(6)

IUPAC in Beijing—Division Roundups Part II, 13(1)

Nanotechnology: Does It Have a Sporting Chance? by Alan Smith, 8(1)

Spectroscopic Data: The Quest for a Universal Format, by Robert Lancashire and Tony Davies, 10(1)

The Canadian National Committee for IUPAC's Travel Awards Program—A Success Story, by Chris. I. Ratcliffe, 16(6)

The Tyranny of the Chemist, by Eric Scerri, 11(3)

What Is Butadiene? by Karl-Heinz Hellwich, 17(2)

Where 2B & Y

Advanced Materials, 17–22 April 2006, Nara, Japan, 39(1)

Advanced Polymeric Materials, 11–15 June 2006, Bratislava, Slovakia, 40(2)

Advanced Polymers for Emerging Technologies, 10–13 October 2006, Busan, Korea, 40(1)

Bio calorimetry, 30 April–4 May 2006, Rio de Janeiro, Brazil, 39(2)

Biophysics, 3–7 March 2007, Baltimore, Maryland, USA, 35(6)

Chemical Biology, 9–13 September 2006, Antalya, Turkey, 36(3)

Chemical Thermodynamics, 30 July–4 August 2006, Boulder, Colorado, USA, 40(2)

Combustion, 6–11 August 2006, Heidelberg, Germany, 40(1)

Environmental Best Practices, 7–10 August 2006, Olsztyn, Poland, 36(4)

Environmental Best Practices, 7–10 August 2006, Olsztyn, Poland, 35(3)

Gas Analysis, 14–16 February 2007, Rotterdam, The Netherlands, 37(4)

Heterocyclic Chemistry, 15–20 July 2007, Sydney, Australia, 35(6)

Inorganic Chemistry—Metal-Nucleic Acids Interactions, 12–17 November 2006, Athens, Greece, 37(4)

Inorganic Materials, 23–26 September 2006, Ljubljana, Slovenia, 42(2)

Ionic Polymerization, 2–7 September 2007, Bayreuth, Germany, 37(3)

Macro and Supramolecular Architectures and Materials, 28 May–1 June 2006, Tokyo, Japan, 39(2)

Modern Physical Chemistry for Advanced Materials, 26–30 June 2007, Kharkiv, Ukraine, 38(4)

NanoTech Insight '07, 10–17 March 2007, Luxor, Egypt, 34(6)

Occupational Health and Safety Management, 27–29 September 2006, Nairobi, Kenya, 36(3)

Particle Separation, 9–12 July 2007, Toulouse, France, 38(4)

Phosphorus Chemistry, 15–21 April 2007, Xiamen, China, 41(1)

Physical Organic Chemistry, 20–25 August 2006, Warsaw, Poland, 41(2)

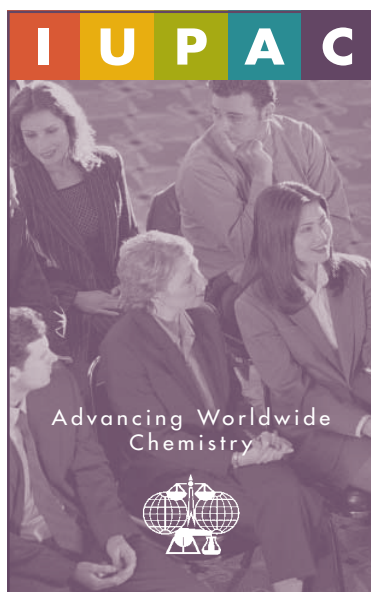
Polymers for Advanced Applications, 20–23 November 2006, Stellenbosch, South Africa, 34(6)

Radical Polymerization, 3–9 September 2006, Il Ciocco, Italy, 41(2)

Raman Spectroscopy, 20–25 August 2006, Yokohama, Japan, 35(5)

Supramolecular Assemblies with Nucleic Acids, 16–17 October 2006, Bordeaux, France, 36(4)

Theoretical and Computational Chemistry, 6–10 August 2006, Kunming, China, 39(1)



IUPAC Prize for Young Chemists

Supporting the future of chemistry

The encouragement of young research scientists is critical to the future of chemistry. With a prize of USD 1000 and paid travel to the next IUPAC Congress, the **IUPAC Prize for Young Chemists** encourages young chemical scientists at the beginning of their careers. The prize is based on graduate work and is given for the most outstanding Ph.D. thesis in the general area of the chemical sciences, as described in a 1000-word essay.

Call for Nominations: Deadline is **1 February 2007**.

For more information, visit www.IUPAC.org/news/prize.html or contact the Secretariat by e-mail at secretariat@iupac.org or by fax at +1 919 485 8706.