- advanced magnetic resonance techniques and the environment; mechanisms of extreme effects on human health and the environment
- structure, biotransformations, mechanisms of drug actions, and effects of biologically active chemicals on cells
- nitric oxide in biological systems
- radical reactions in model biosystems; cellular and organismic processes
- NMR imaging in biomedical studies; other applied research
- high-resolution NMR in solids, NMR in liquids, NMR in biosystems
- theory, application, and development of EPR, spin labels and traps, pulsed EPR spectroscopy, high-frequency/high-field EPR and ENDOR, ELDOR, NQR, and other new approaches and methods in EPR and NMR spectroscopy

Approximately 120 scientific participants from around the world are expected to attend the conference.

For additional information, contact Prof. Anatoly Buchachenko, Semenov Institute of Chemical Physics, Russian Academy of Sciences, Kosygin Street 4, Moscow 117977, Russia; E-mail: spinchem@chph.ras.ru; Tel.: +7 095 939 74 90; Fax: +7 095 938 24 84.

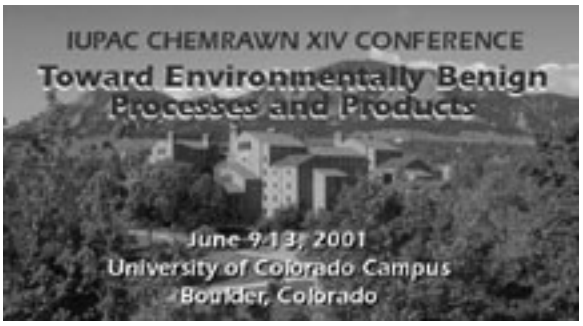
NATO Advanced Study Institute (ASI) on Molten Salts: From Fundamentals to Applications, 4–14 May 2001, Kas, Turkey

The scope of this workshop covers fundamental aspects and applications of molten salts, glasses, and metal/molten salt solutions. The Institute will address both high-temperature and low-melting salts, and it will deal with experimental approaches to reveal the microscopic, macroscopic, and dynamic behavior of melts. The role of computer modeling as a link between experiments and theory will be emphasized, as well as the importance of multidisciplinary and multitechnique approaches to unravelling the internal complexity of these technologically important liquids. The need to build up an easily accessible and reliable database will also be stressed.

Specific topics covered at the workshop will include the following: interionic forces and relevant statistical mechanics, diffraction studies, diffusion and transport, thermodynamics and thermochemistry, light scattering, electrochemistry, computer simulations, metal/molten salt solutions, ionic glasses, room-temperature molten salts, batteries, nuclear pyrochemistry, fuel cells, and data in the age of computerized science.

For more information, contact the Institute Secretariat, c/o Joyce Bartolini, IUSTI, Technopôle de Château Gombert, 5 Rue Enrico Fermi, F-13453 Marseille Cedex 13, France; E-mail: molten.salts@iusti.univ-mrs.fr; Tel.: +33 4 91 10 68 82; Fax: +33 4 91 11 74 39.

CHEMRAWN XIV World Conference on Green Chemistry: Toward Environmentally Benign Processes and Products, 9–13 June 2001, Boulder, CO, USA



Collectively we reside on a planet with insufficient natural resources to support profligate consumption. Chemistry plays a key role in increasing the efficiency of resource utilization in the development of products and processes. The key to implementing industrial ecology for a sustainable world is a new mindset that brings pollution prevention and energy conservation to the fore as design principles.

This Chemistry Research Applied to World Needs (CHEMRAWN) XIV Conference, jointly sponsored by IUPAC, the American Chemical Society, and the Green Chemistry Institute, will explore the latest scientific and engineering approaches and develop worldwide strategy and policy recommendations to implement green chemistry. The conference, to be held on the campus of the University of Colorado in Boulder, will bring together world leaders in specific fields to provide a catalyst for the common interersts of corporations, academic institutions, government agencies, and representatives of the public interest to determine a path for future action.

Objectives of the conference are to:

- conduct an objective assessment of the technical state-of-the-art in green chemistry and engineering and the contributions it can make to world sustainability;
- define scientific gaps, research priorities, economic and social issues in order to provide decision makers in industry, government, academia, and the non-governmental sector with the knowledge required

to craft policy and accelerate application of green chemistry benefits to world needs; and
- identify and promote an educational program for green chemistry that spans educational levels and national boundaries.

The meeting will consist of invited lectures and contributed posters. Poster papers are solicited on the many topics involving the design of chemical processes and products that will eliminate or reduce the use or generation of hazardous substances. Examples of some specific topics to be discussed include alternative reaction media (e.g., supercritical CO_2) and separations, life cycle impacts, economic opportunities and case studies in large and small companies, environmentally benign food production, emerging biotech-based alternatives, green engineering, social impacts and sustainability, global innovations, green chemistry education, cleaner water and air, and success assessment and measurement. The deadline for abstract receipt is 1 December 2000; abstracts (150 words) should be submitted to Prof. Bob Sievers, Department of Chemistry and Biochemistry, Campus Box 215, University of Colorado, Boulder, CO 80309-0215, USA, on a standard ACS paper abstract form (available on the conference web site, http://cires.colorado.edu/env_prog/chemrawn) or electronically through the web site in the same format to be received at the University of Colorado by the deadline.

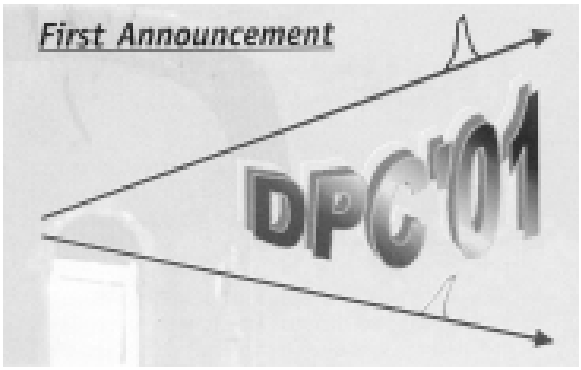
Scientists and policy makers from throughout the world will gather in Boulder to discuss sustainability issues, which may be addressed and improved by chemical research and wise policy development and implementation. Nobel Laureate Paul Crutzen of the Max Planck Institute in Mainz, Germany has agreed to give a plenary lecture. Other plenary speakers who have been invited and have tentatively accepted include Michael Fitzpatrick (Rohm and Haas), Joseph DiSimone (University of North Carolina), Zhu Qing Shi (Hefei, China), Joe Miller (duPont), Martyn Poliakopf (Nottingham, UK), Roger Beachy (Danforth Institute), Joe Thornton (author of *Pandora's Poison*, Columbia University), Neal Lane (President Clinton's Science Advisor), and Mary Good (President of AAAS). Additional information about the program and on-line registration will be available on the conference web site: http://cires.colorado.edu/env_prog/chemrawn.

Partial subsidy of the registration fee for students and limited support of travel by developing country scientists may be applied for from the conference organizers.

Approximately 900 scientific participants from around the world are expected to attend this conference.

For additional information, contact Dr. Dennis L. Hjeresen, Senior Program Manager, Environmental Management Programs, Los Alamos National Laboratory, Mail Stop J591, Los Alamos, NM 87545, USA; E-mail: dennish@lanl.gov; Tel.: +1 505 665 7251; Fax: +1 505 665 8118; Web site: http://cires.colorado.edu/env_prog/chemrawn/enter.html.

International Conference on Dynamical Processes in Excited States of Solids (DPC'01), 1–4 July 2001, Lyon, France



DPC'01 is a cross-disciplinary meeting for physicists, chemists, life scientists, and materials scientists interested in theoretical and experimental aspects of the dynamics of excited states in condensed matter. Basic as well as applied science aspects will be covered. The meeting will be limited to about 150 scientific participants, and all oral and poster sessions will be plenary.

Emphasis at DPC'01 will be on the underlying fundamental aspects of the following topics: dynamics of highly excited states of solids, energy transfer and exciton dynamics, electroluminescence, electron–phonon interaction and phonon dynamics, photoinduced large amplitude motions, cooperative motions, phase transitions, quantum optics, coherent and nonlinear spectroscopy, ultrafast phenomena, and spectroscopy of nanoscale and single nano objects.

For further information, contact Conference Secretariat, c/o Chantal Iannarelli, Congrès Scientifiques Services,2 Rue des Villarmains, F-92210 Saint-Cloud, France; E-mail: c2s@club-internet.fr; Tel.: +33 1 47 71 90 04; Fax: +33 1 47 71 90 05; or Scientific Secretariat, c/o Marie-France Joubert, LPCML, UMR 5620 CNRS, Université Claude Bernard Lyon 1, Bât. 205 43, boulevard du 11 novembre 1918, F-69622 Villeurbanne cedex France; E-mail: joubert@pcml.univ-lyon1.fr; Tel.: +33 4 72 44 83 39; Fax: +33 4 72 43 11 30; Web site: http://pcml.univ-lyon1.fr/DPC01/welcome.html.