

in these countries, particularly the developing countries. The definition of competition itself has now undergone a change. It is being increasingly acknowledged that the competitiveness of an enterprise and its ability to capture the market depends largely on its ability to manage the "internal" environment for developing innovative technologies. Furthermore, technology is also increasingly becoming a valuable com-

mercial or tradable asset and a dominating factor in determining competitiveness.

In order to develop newer technologies and promote inventiveness, it is essential to invest heavily in research and development (R&D). Investment costs in R&D are also increasing rapidly along with the competitiveness. Protection of the results of R&D gains importance under the circumstances.

Conference Calendar

Visit <http://www.iupac.org> for complete information and further links

1999

Functional Dyes

31 May–4 June 1999

4th International Symposium on Functional Dyes, Osaka, Japan.
Prof. Yasuhiko Shirota, Faculty of Engineering, Osaka University, Yamadaoka, Suita, Osaka 565-0871, Japan.

Tel.: +81 6 879 7364

Fax: +81 6 877 7367

E-mail: isfd@chem.eng.osaka-u.ac.jp

Polymer Systems

7–10 June 1999

3rd International Symposium on Molecular Mobility and Order in Polymer Systems, St. Petersburg, Russia.

Prof. A. A. Darinskii, Chairman; Mrs. I. Kovalenko, Coordinator; Institute of Macromolecular Compounds, Bolshoy pr. 31, St. Petersburg, 190004 Russia.

Tel.: +7 812 213 2907

Fax: +7 812 218 6869

E-mail: IMC@macro.spb.su

Biodiversity and Bioresources

11–15 July 1999

2nd International Conference on Biodiversity and Bioresources—Conservation and Utilization, Belo Horizonte, Minas Gerais, Brazil.

Prof. Alaide Braga de Oliveira, Faculdade de Farmacia—UFMG, Av. Olegario Maciel 2360, 30.180-112 Belo Horizonte,

Brazil.

Fax: +55 31 337 9076

E-mail:

fernao@dedalus.lcc.ufmg.br

Polymerization Methods

12–15 July 1999

39th Microsymposium, Advances in Polymerization Methods: Controlled Synthesis of Functionalized Polymers, Prague, Czech Republic.

Dr. Jaromir Lukas, Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Heyovskeho na. 2, 162 06 Praha 6, Czech Republic.

Tel.: +420 2 360341

Fax: +420 2 367981

E-mail: sympo@imc.cas.cz

CHEMRAWN

20–25 June 1999

CHEMRAWN XII—African Food Security and Natural Resource Management: The New Scientific Frontiers, Nairobi, Kenya.

Dr. Pedro Sanchez, International Center for Research in Agroforestry, P.O. Box 30677, Nairobi, Kenya.

Tel.: +254 2 521003

Fax: +254 2 520023

E-mail: p.sanchez@cgnet.com

Memorial K. I. Zamaraev

28 June–2 July 1999

International Memorial K. I. Zamaraev Conference on Physical Methods for Catalytic

Research at the Molecular Level, Novosibirsk, Russia.

Prof. V. N. Parmon, Boreskov Institute of Catalysis, 5, Prosp. Akad. Lavrentieva, Novosibirsk, 630090, Russia.

Tel.: +7 3832 343269

Fax: +7 3832 343056

E-mail: parmon@catalysis.nsk.su

Advanced Materials

14–18 July 1999

1st IUPAC Workshop on New Directions in Chemistry. Workshop on Advanced Materials: Nanostructured Systems (IUPAC-WAM-1), Hong Kong.

Prof. M. A. El-Sayed, School of Chemistry and Biochemistry, Georgia Institute of Technology Atlanta, GA 30332-0400, USA.

Tel.: +1 404 894 0292

Fax: +1 404 894 0294

E-mail: mostafa.el-sayed@chemistry.gatech.edu

How to Apply for IUPAC Sponsorship

To apply for IUPAC sponsorship, conference organizers should complete an Advanced Information Questionnaire (AIQ). The AIQ form is available at <http://www.iupac.org> or by request at the IUPAC Secretariat, and should be returned between 2 years and 12 months before the conference. Further information on granting sponsorship is included in the AIQ and available online.

Organo-Metallic Chemistry

18–22 July 1999
10th International Symposium on
Organo-Metallic Chemistry
Directed Towards Organic
Synthesis (OMCOS 10),
Versailles, France.
*Prof. J. P. Genet, Laboratoire de
Synthese Selective Organique et
Produits Naturels, E.N.S.C.P.—
UMR CNRS 7573, 11 rue Pierre
et Marie Curie, 75231 Paris
Cedex 05, France.*
Tel.: +33 1 44 276743
Fax: +33 1 44 071062
E-mail: genet@ext.jussieu.fr

Carotenoids

18–23 July 1999
12th International Symposium on
Carotenoids, Cairns, Australia.
*Prof. George Britton, School of
Biological Sciences, The Univer-
sity of Liverpool, Crown Street,
Liverpool, L69 3BX, UK.*
Fax: +44 (151) 794 4349.

Rheology of Polymer Systems

19–22 July 1999
19th Discussion Conference on
the Rheology of Polymer
Systems, Prague, Czech Repub-
lic.
*Dr. Jaromir Lukas, Institute of
Macromolecular Chemistry,
Academy of Sciences of the
Czech Republic, Heyovskeho na.
2, 162 06 Praha 6, Czech
Republic.*
Tel.: +420 2 360341
Fax: +420 2 367981
E-mail: sympo@imc.cas.cz

Ionic Polymerization

19–23 July 1999
International Symposium on
Ionic Polymerization, Kyoto,
Japan.
*Dr. Shiro Kobayashi, Depart-
ment of Materials Chemistry,
Graduate School of Engineering,
Kyoto University, Kyoto 606-01,
Japan.*
Tel.: +81 75 753 5608

Fax: +81 75 753 4911
*E-mail: kobayashi@mat.polym.
kyoto-u.ac.jp*

Analytical Science

25–30 July 1999
Analytical Science into the Next
Millennium (SAC 99), Dublin,
Ireland.
*Prof. Malcolm R. Smyth, Faculty
of Science, Dublin City Univer-
sity, Dublin 9, Ireland.*
Tel.: +353 1 704 5308
Fax: +353 1 704 5032
E-mail: smythm@ccmail.dcu.ie

Solution Chemistry

26–31 July 1999
XXVI International Conference
on Solution Chemistry, Fukuoka
City, Kyushu, Japan.
*Prof. Hitoshi Ohtaki, Depart-
ment of Chemistry, Faculty of
Science and Engineering,
Ritsumeikan University, 1-1-1
Noji-Higashi, Kusatsu 525,
Japan.*
Tel.: +81 775 61 2777
Fax: +81 775 61 2659
E-mail: ohtaki@bkc.ritsumei.ac.jp

Plasma Chemistry

2–6 August 1999
14th International Symposium on
Plasma Chemistry, Prague, Czech
Republic.
*Prof. M. Hrabovský, Institute of
Plasma Physics, Za Slovankou 3,
P.O. Box 17, 182 21 Praha 8,
Czech Republic.*
Tel.: +420 2 824751
Fax: +420 2 8586389
E-mail: hrabov@ipp.cas.cz

IUPAC General Assembly

7–13 August 1999
IUPAC Secretariat.
Tel.: +1 919 485 8700
Fax: +1 919 485 8706
E-mail: secretariat@iupac.org

IUPAC Congress

14–19 August 1999
Frontiers in Chemistry: Molecu-
lar Basis of the Life Sciences,
Berlin, Germany.
*Gesellschaft Deutscher
Chemiker– GDCh, PO Box 90 04
40, 60444 Frankfurt Am Main,
Germany.*
Tel.: +49 69 7917 358/360/366
Fax: +49 69 7917 475
E-mail: tg@gdch.de

Colloquium Spectroscopicum Internationale

5–10 September 1999
31th Colloquium
Spectroscopicum Internationale
1999, Ankara, Turkey.
*Prof. Dr. O. Yavuz Ataman,
Department of Chemistry, Middle
East Technical University, TR-
06531 Ankara, Turkey.*
Tel.: +90 312 210 3232
Fax: +90 312 210 1280
E-mail: xxxicsi@rorqual.cc.metu.edu.tr

Macromolecule-Metal Complexes

6–10 September 1999
8th International Symposium on
Macromolecule-Metal Com-
plexes (MMC-VII), Tokyo,
Japan.
*Prof. Eishun Tsuchida, Depart-
ment of Polymer Chemistry
Waseda University Toyko 169-50,
Japan.*
Tel.: +81 3 5286 3120
Fax: +81 3 3209 5522
E-mail: w169988@mn.waseda.ac.jp

Organic and Organoelement Chemistry

7–11 September 1999
Horizons of Organic and
Organoelement Chemistry, to the
memory of Prof. A. N.
Nesmeyanov, on the 100th
anniversary of his birth, Moscow,
Russia.
Prof. Y. N. Bibnov, INEOS,

Vavilov str. 28, Moscow.
Tel.: +7 (095) 135 6165
Fax: +7 (095) 135 5085
E-mail: dir@ineos.ac.ru

Toxicology

6–10 November 1999
4th Congress of Toxicology in
Developing Countries, Antalya,
Turkey.
Prof. Semra Sardas, Gazi
University, Faculty of Pharmacy
Toxicology Department, TR
06330 Ankara, Turkey.
Tel./fax: +90 312 212 30 09
E-mail: ek03-k@tr-net.net.tr

2000

Bio-organic Chemistry

30 January–4 February 2000
5th IUPAC Symposium on Bio-
Organic Chemistry (ISBOC-V),
New Delhi, India.
Prof. S. Ranganathan,
Biomolecular Research Unit,
Regional Research Laboratory,
Trivandrum 695 019, India.
Tel.: +91 471 491 459
Fax: +91 471 490 186

High Temperature Materials Chemistry

4–10 April 2000
10th International Conference on
High Temperature Materials
Chemistry, Aachen, Germany.
Prof. K. Hilpert,
Forschungszentrum Jülich GmbH,
Institut für Werkstoffe der
Energietechnik (IWE 1), 52425
Jülich, Germany.
Tel.: +49 2461 61 3280
Fax: +49 2461 61 3699
E-mail: k.hilpert@fz-juelich.de

Mycotoxins and Phycotoxins

21–25 May 2000
10th International IUPAC
Symposium on Mycotoxins and
Phycotoxins, Sao Paulo, Brazil.
Dr. Myrna Sabino, Instituto
Adolfo Lutz, AV Dr. Arnaldo 355,
Sao Paulo, Brazil, 01246-902.

Fax: +455 (11) 853 3505
E-mail: Myrna@Sti.COM.BR

Organic Synthesis

1–5 July 2000
13th International Conference on
Organic Synthesis (ICOS-13),
Warsaw, Poland.
Prof. M. Chmielewski, Institute of
Organic Chemistry, Kasprzaka
44, 01-224 Warsaw 42, PO Box
58, Poland.
Tel.: +48 22 631 8788
Fax: +48 22 632 6681
E-mail: icho-s@ichf.edu.pl

Macromolecules

9–14 July 2000
38th International Symposium on
Macromolecules (MACRO
2000), Warsaw, Poland.
Prof. Stanislaw Penczek, Polish
Academy of Sciences, ul.
Sienkiewicza 112, 90363 Lodz,
Poland.
Tel.: +48 42 81 9815
Fax: +48 42 684 7126
E-mail:
spenczek@bilbo.cbmm.lodz.pl

Coordination Chemistry

9–14 July 2000
34th International Conference on
Coordination Chemistry (34-
ICCC), Edinburgh, Scotland.
Prof. P. Tasker, Chairman, Dr.
John F. Gibson, Secretary, The
Royal Society of Chemistry,
Burlington House, London W1V
0BN, UK.
Tel.: +44 171 440 3321
Fax: +44 171 734 1227
E-mail: gibsonj@rsc.org

Polymers in Medicine

17–20 July 2000
40th Microsymposium Polymers
in Medicine, Prague, Czech
Republic.
Dr. Jaromir Lukas, Institute of
Macromolecular Chemistry,
Academy of Science of the Czech
Republic, Heyovskeho na. 2, 162
06 Praha 6, Czech Republic.
Tel.: +420 2360341

Fax: +420 2367981
E-mail: sympo@imc.cas.cz

Chemical Thermodynamics

6–11 August 2000
16th IUPAC Conference on
Chemical Thermodynamics,
Halifax, Nova Scotia, Canada.
Prof. M. A. White, Department of
Chemistry, Dalhousie University,
Halifax, Nova Scotia B3H 4J3,
Canada.
Tel./Fax: +1 902 494 3894
E-mail:
Mary.Anne.White@DAL.CA

Natural Products

1 September 2000
22nd International Symposium
on the Chemistry of Natural
Products, Sao Paulo, Brazil.
Dr. M. Fátima das G.F. da Silva,
Universidade Federal de Sao
Carlos, Depto. de Quimica, Via
Washington Luiz, km 235,
CP676, Sao Carlos, Brazil.
Tel.: +55 16 274 8208
Fax: +55 16 274 8350
E-mail: dmfs@power.ufscar.br

Biotechnology

3–8 September 2000
11th International Biotechnology
Symposium, Berlin, Germany.
Prof. G. Kreysa, DECHEMA
eV— c/o 11th IBS, Theodor-
Heuss-Allee 25, 60486 Frankfurt/
Main, Germany.
Tel.: +49 69 7564 205
Fax: +49 69 7564 201
E-mail: info@dechema.de

Food Packaging

8–10 November 2000
2nd International Symposium on
Food Packaging—Ensuring the
Safety and Quality Food, Vienna,
Austria.
Dr. L. Contor, ILSI Europe, 83,
Avenue E. Mounier, Box 6, B-
1200, Brussels, Belgium.
Tel.: +32 (2) 762 0044
Fax: +32 (2) 771 0014
E-mail: laura@ilsieurope.be