

ILMAC^{///}

Invitation to the Scientific Forum

Entrance free

September 25–28, 2007 | Exhibition Center Basel | Hall 1 | Room Luzern



Energy and Raw Materials

The Contributions of Chemistry and Biochemistry in the Future

Partners



Swiss Biotech
Association

SATW

Schweizerische Akademie der Technischen Wissenschaften
Académie suisse des sciences techniques
Accademia svizzera delle scienze tecniche
Swiss Academy of Engineering Sciences

Kommission Angewandte Biowissenschaften

Organizers



SCHWEIZ, CHEMISCHE GESELLSCHAFT SCG
SOCIÉTÉ SUISSE DE CHIMIE SSC
SWISS CHEMICAL SOCIETY SCS

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Energy and Raw Materials – The Contributions of Chemistry and Biochemistry in the Future

The Swiss Chemical Society (SCS) is holding a scientific forum to coincide with the chemical industry's exhibition ILMAC 2007. This year's scientific forum is intended to show how in Switzerland in the next decades, as the energy demand increases, chemistry as an interdisciplinary science can make an important contribution to resolving key future issues in combination with other disciplines, commerce and industry. The event is aimed at managers and their employees from the fields of science, commerce, ecology, government, local authority and politics as well as interested members of the public. ILMAC, an industry exhibition for research and development and environmental and process technology in pharmaceuticals, chemicals and biotechnology, offers an appropriate milieu for the forum.

The theme "Energy and Raw Materials" is highly topical at the moment. Scarcely a day goes by without some new media report on the subject, often controversial in content. In the forum leading experts from Switzerland and abroad will give their views on the presently available alternative energy resources and primary materials for the chemical and pharmaceuticals industries on a generally comprehensible level. Technically, ecologically and financially realizable solutions for today and in the future will be explained and discussed.

Die Schweizerische Chemische Gesellschaft (SCG) führt gleichzeitig mit der Chemie-Industriemesse ILMAC 2007 einen wissenschaftlichen Kongress (Scientific Forum) durch. Am diesjährigen Scientific Forum soll gezeigt werden, wie in der Schweiz in den nächsten Jahrzehnten bei steigendem Energiebedarf die Chemie als fachübergreifende Wissenschaft für die Lösung wichtiger Zukunftsfragen in Verbindung mit anderen Disziplinen, Wirtschaft und Industrie einen wichtigen Beitrag leisten kann. Die Veranstaltung richtet sich an Führungskräfte, deren Mitarbeiter aus Wissenschaft, Wirtschaft, Ökologie, Verwaltung, Behörden, Politik und an die interessierte Öffentlichkeit. Die ILMAC, eine Industriemesse für Forschung und Entwicklung, Umwelt- und Verfahrenstechnik in Pharma, Chemie und Biotechnologie, bietet dazu ein passendes Umfeld.

Das Thema «Energie und Rohstoffe» ist heute brandaktuell. Es vergeht kaum ein Tag, an dem die Medien darüber nicht, teilweise auch kontrovers, berichten. Führende Fachleute aus der Schweiz und dem Ausland nehmen zu den gegenwärtigen alternativen Energiere Ressourcen und Grundstoffen für die Chemie- und Pharmaindustrie auf einem allgemein verständlichen Niveau Stellung. Technisch, ökologisch und wirtschaftlich realisierbare Lösungen für heute und in der Zukunft sollen aufgezeigt und diskutiert werden.

Program

25.9.2007, 9:30 – 12:30

Energy Supply – Balancing Moderation and Innovation

- Chairman** Prof. Georg Fráter, President of the Swiss Chemical Society
- Opening** Dr. Walter Steinmann, Director of the Federal Office of Energy
The Energy Challenge of Switzerland in the Future
- Dr. Hermann Pütter, Chemicals and Energy Coordinator at the German Chemical Society (GDCh)
Greetings of the German Chemical Society
- Speakers** Dr. Fatih Birol, Chief Economist and Head of the Economics Analysis Division, International Energy Agency, Paris
The IEA Annual Energy Outlook 2007
- Prof. Alexander Wokaun, General Energy Research Department, Paul Scherrer Institut
Efficiency and Fossil Fuel Substitution – The Contribution of Chemistry and Chemical Engineering
- Prof. David Pimentel, College of Agricultural and Life Sciences, Cornell University, USA
Ethanol Fuels versus Environmental, Food, and Pollution Costs
- Panel discussion with the speakers and additional experts
- Moderator** Prof. Dieter Imboden, President of the Research Council of the Swiss National Science Foundation and Professor for Environmental Physics at ETH Zurich

26.9.2007, 9:30 – 12:30

Eat It or Burn It? The Potential of Biofuels

- Chairperson** Charlotte Opal, Coordinator of the “Roundtable on Sustainable Biofuels”, Energy Center, EPFL
- Speakers** Tim Kroenke, Global Head of Biofuels, Syngenta International AG, **The Promise and Challenges of Current Crop-to-Fuel Regimes and Cellulosic Ethanol**
- Dr. Gunter Festel, Festel Capital, Hünenberg / ZG
Biofuels – Which One Is the Most Economic One?
- Dr. Rainer Zah, Modelling Technology and Society Laboratory, EMPA, **Biofuels – Which One Is the Most Ecological One?**
- Panel discussion with the speakers and additional experts
- Moderator** Helen Issler, Schweizer Fernsehen

27.9.2007, 9:30 – 12:30

White Biotechnology – Technology of the Future?

Chairman Dr. Beat Wipf, Head of Section Protein Science,
F. Hoffmann-La Roche

Speakers Prof. Wim Soetaert, Laboratory for Industrial Microbiology
and Biocatalysis, Ghent University, Belgium
**White Biotechnology: A Key Technology for Building the
Biobased Economy**

Prof. Bärbel Hahn-Hägerdal, Lund Institute of Technology,
Sweden
Biotechnology Applied in the Traditional Process Industry

Dr. Marco Oldiges and Prof. Christian Wandrey, Institute of
Biotechnology, Research Center, Jülich, Germany
White Biotechnology: Why Do We Need It Today?

Panel discussion with the speakers and additional experts

Moderator Dr. Christian Heuss, Schweizer Radio DRS

28.9.2007, 9:30 – 12:30

Sustainable Chemistry thanks to Renewable Raw Materials

Chairman Prof. Hans Björn Püttgen, Director of the Energy Center, EPFL

Speakers Prof. Jürgen O. Metzger, Department of Pure and Applied
Chemistry, University of Oldenburg, Germany
**Concepts on the Contribution of Chemistry to a Sustainable
Development: Renewable Raw Materials**

Dr. Hans-Peter Meyer, Assistant Vice-President Marketing
and Intelligence-Technology Evaluation, Lonza and
Cathy Kroll, Swiss Biotech Association
**White Biotechnology in Switzerland –
Perspectives for a Sustainable Development**

Prof. J. P. M. Sanders, Agrotechnology and Food Sciences
Group, Wageningen University, The Netherlands
Biorefinery – The Bridge between Agriculture and Chemistry

Prof. Hans Björn Püttgen, Director Energy Center, EPFL
**The Roundtable on Sustainable Biofuels:
A Multi-Stakeholder Process**

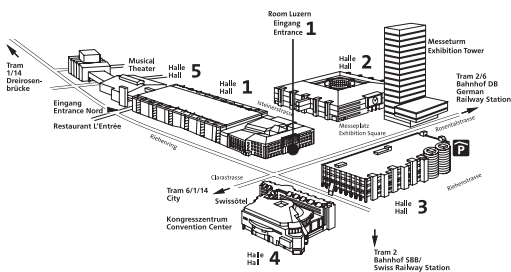
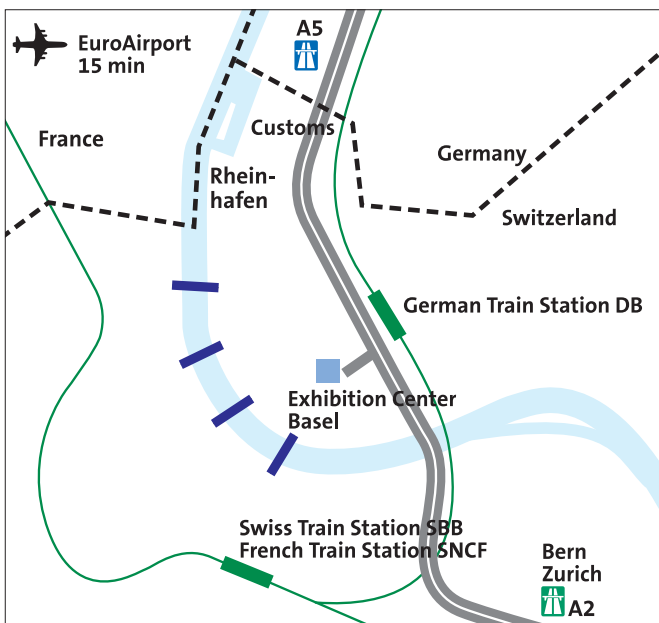
We reserve the right to make changes to the program. The conference language is English.

General Information

Scientific Forum at ILMAC 2007 | September 25–28, 2007

Exhibition Center Basel | Hall 1 | Room Luzern | Entrance free

ILMAC: September 25–28, 2007
from 9 a.m. to 5 p.m.
Day ticket CHF 30, incl. VAT
www.ilmac.ch



Additional Experts in the Panel Discussion

Dr. Hans-Peter Meyer, Lonza Ltd., Visp
Dr. Gerhard Stucki, SATW, Balewa AG, Liestal
Dr. Rolf Hartl, Swiss Oil Association, Zurich
Dr. Hermann Pütter, Chemicals and Energy Coordinator at the
German Chemical Society (GDCh)
and others

Organizing Committee Scientific Forum ILMAC 2007

Prof. Georg Fräter, President SCS
Dr. Heiner Kern, SCS, Chairman Scientific Forum
Dr. Beat Wipf, F. Hoffmann-La Roche, Basel
Dr. Rudolf Pfluger, University of Basel
Dr. Hans Peter Märki, F. Hoffmann-La Roche, Basel
Christian Wenger, MCH Swiss Exhibition (Basel) Ltd.

Contact



SCHWEIZ. CHEMISCHE GESELLSCHAFT	SCG
SOCIÉTÉ SUISSE DE CHIMIE	SSC
SWISS CHEMICAL SOCIETY	SCS

The Swiss Chemical Society (SCS) is the umbrella organization of Swiss chemists. It comprises about 3,000 individual members from science and industry. The SCS promotes scientific and industry activities in all fields of chemistry, in particular through scientific conferences, awards, promotion of young scientists, an international magazine (CHIMIA) and courses for continued education.

Swiss Chemical Society (SCS)

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