

Supported by Materials Research Society (MRS) and
European Materials Research Society (E-MRS)

a First Materials Science Forum on



MATERIALS SCIENCE FOR FUTURE SUSTAINABLE TECH- NOLOGIES

will take place at the

University of Augsburg, Germany

on September 17 + 20, 2002

Organizing Institutions: AMU (Application Center for Materials and Environmental Research,
Institute of Physics, University of Augsburg)

WZU (Environmental Science Center, University of Augsburg)

WEC (World Environment Center)

IMU (Institute of Management & Environment)

BI (Bayern Innovativ) (Logistics)

Topic: An informative and at the same time strategic discussion meeting between **scientists, high-ranking industrial leaders, and politicians** is planned to **highlight the crucial role of materials science for the development and the implementation of sustainable technologies**. Based on the present state of affairs and the problems of a partly devastating utilization of resources, products, and fuel, new approaches and strategies for the design and production of sustainable and appropriate functional materials and efficient processes will be discussed. The aim of the meeting is the exchange of ideas and experiences on environmentally benign synthesis routes and utilization of materials by efficient and economically feasible process technologies.

The discussions during this meeting will be inspired by the newest political decisions of the Rio+10 world conference held in Johannesburg two weeks before.

Among others, the conference will comprise the following topics:

Fundamentals: Evaluation of the current state of affairs

Needs: Both industrial and human needs

Strategies: The fuel-energy enigma, functional composite materials, ceramics, catalytic materials, semiconductors, metals, glasses, carbon modifications, biomaterials and biomimetic materials, waste, and life-cycle assessment

Conclusions will be developed during a **panel discussion** with the goal that the participants of the conference reach a consensus on recommendations for **adequate scientific, economic, and political programs in materials science leading to sustainable technologies** to be launched by the individual governments. An **information management system** will be installed on the newest development in the area of materials science for sustainable technologies.

Invited speakers include: Hartmut Grassl, Max Planck Hamburg, Germany, advisor to the chancellor

Louis Schlappbach, EMPA, Switzerland

Mrityunjay Singh, NASA, USA

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International Advisory Committee members include:

Hartmut Grassl, Max Planck Hamburg, Germany,
advisor to the chancellor

C.N.R. Rao, IIS, India
Armin Reller, Uni Augsburg, Germany
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Siegfried Horn, Uni Augsburg
Josef Nassauer, Bayern Innovativ
Bernd Stritzker, AMU
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