

Glass-Days 2002

Fraunhofer-Institut für Techno- und
Wirtschaftsmathematik ITWM
Dr. Norbert Siedow
Gottlieb-Daimler-Straße, Geb. 49
67663 Kaiserslautern
GERMANY

AUSPICES

The workshop is held under the auspices
of MACSI-net and Fraunhofer ITWM.



Fraunhofer Institut
Techno- und
Wirtschaftsmathematik



LOCATION

Haus Marie Swarovski
Salzburger Straße 1a
6112 Wattens
AUSTRIA

MAILING ADDRESS

All inquiries and mail should be addressed to:

Glass-Days 2002
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Glass-Days 2002

Analysis and Simulation of Processes
in Glass Production and Processing

Wattens (A), November 21 – 22, 2002



Fraunhofer Institut
Techno- und
Wirtschaftsmathematik

OBJECTIVES

Mathematical modeling and numerical computation of glass specific problems have been a great challenge for many scientists and engineers for many years. The results of these efforts lead to a better understanding of many problems in glass processing. Glass industry derived many benefits from these scientific works.

Since the early Glass-Days the main focus was put on problems concerning radiative heat transfer in glass and glass moulds, structure and morphology of glass and much more. In recent years the interest in inverse problems and in optimization problems increased. These studies are concerned with such different things as parameter identification problems, new developments for indirect measurements of process parameters or the optimization of specific glass producing processes. Although a lot of work has been done in all these different areas, still many open questions remain and new questions arise from old ones.

The Glass-Days, that will take place for the fifth time this year, provide a forum for mathematicians, physicists and engineers working on all kinds of problems on glass. Besides presentations of state-of-the-art modeling and simulation a main focus is put on intense discussions between people from industry and academic institutions.

TOPICS

Mathematical modeling and simulation of processes in glass production and processing like

- Indirect methods for measurements
- Parameter identification and Optimization
- Shape Optimization
- Heat Transfer and Radiation
- Morphology of glass etc.

SCIENTIFIC COMMITTEE

H. Loch, Schott Glas, Mainz (D)
R. Mattheij, TU Eindhoven (NL)
H. Neunzert, Fraunhofer ITWM, Kaiserslautern (D)
K. Roider, D. Swarovski & Co., Wattens (A)

CONTRIBUTED PAPERS

Participants from industry and academic institutions are invited to give an oral presentation of their work (not more than 30 minutes length) or to pose and discuss open problems.

DEADLINES

- Proposal for Abstract: September 30, 2001
- Registration: October 15, 2001

REGISTRATION FEE

The registration fees including conference materials are € 100.

ORGANIZER

Fraunhofer ITWM, Kaiserslautern (D)

In a long-term cooperation with glass industry the ITWM has experiences in simulation of different glass making processes: radiative heat transfer, spectral remote sensing for temperature measurement, parameter identification and optimization.

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I intend to

Participate

Submit a paper

Title:

Name/Title:

Surname:

Address:

Phone:

Fax:

E-mail:

Registration form should be returned before **October 15, 2002**.