

Fact Sheet:

Building Use & Research Laboratories

New Laboratory Building, Fraunhofer ISE

Building Use

Laboratory facilities for coating, microstructuring, optics and photonics, concentrator optics and solar thermal; seminar room

Coating



Sputtering system ©Fraunhofer ISE

- Selective absorber coatings for solar thermal collectors
- Coatings for window glazings for heat and sun protection as well as for reducing reflection
- switchable transmission
- transparent conducting layers for solar cells

**Fraunhofer Institute for
Solar Energy Systems ISE**
Heidenhofstraße 2
79110 Freiburg
Press und Public Relations
Karin Schneider
Phone +49 761 4588-5150
Fax +49 761 4588-9342
info@ise.fraunhofer.de

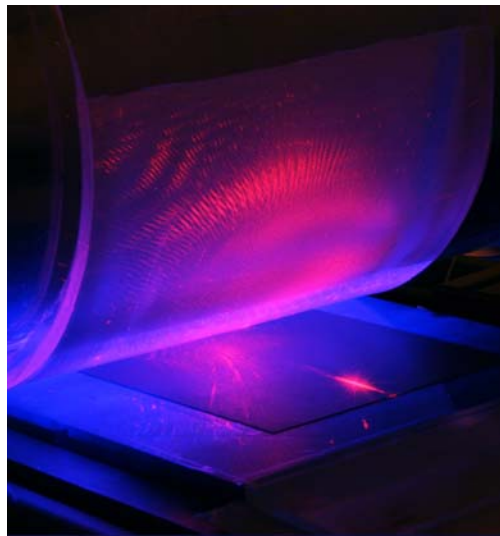
www.ise.fraunhofer.de

Dipl.-Phys. Wolfgang Graf
Phone +49 761 4588-5946
wolfgang.graf@ise.fraunhofer.de

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Microstructuring and Photonics



Roll Imprint System. ©Fraunhofer ISE

Micro and nanostructures manufactured with interference lithography and nanoimprint processes:

- for higher solar cell efficiencies
- for antireflection coatings
- to improve the brightness and contrast of displays and for light directing and scattering in the lighting technology
- manufacturing structures on areas up to $1.2 \times 1.2 \text{ m}^2$
- modeling and design of photonic structures

Dr. Benedikt Bläsi
Phone +49 761 4588-5995
benedikt.blaesi@ise.fraunhofer.de

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79110 Freiburg
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Concentrator Optics



Reflectometry. ©Fraunhofer ISE

- Laboratory measurements of lenses and mirror optics for concentrator photovoltaics
- Laboratory measurements of mirror optics for solar thermal power plants and process heat collectors
- Outdoor test measurements of concentrating collectors and tracking systems performed at the test field located on the building roof
- Component tests of parabolic trough and linear Fresnel collectors for generating solar thermal electricity and process heat, parabolic dishes and heliostats

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Fax +49 761 4588-9342
info@ise.fraunhofer.de

www.ise.fraunhofer.de

Dr. Peter Nitz
Phone +49 761 4588-5410
peter.nitz@ise.fraunhofer.de