

Structured and Freeform Surfaces Topical Meeting

Veranstaltung - Structured and Freeform Surfaces Topical Meeting

Titel	Structured and Freeform Surfaces Topical Meeting
Wann	Mi, 10. Februar 2010 - Do, 11. Februar 2010

Beschreibung

Structured and Freeform Surfaces Topical Meeting

Fraunhofer IPT Aachen, Germany 10 – 11 February 2010

The second technical meeting of the euspen (european society for precision engineering and nanotechnology) Special Interest Group: Structured and Freeform Surfaces will focus on the technology, needs and design of engineered surfaces. The meeting will include formal presentations and open discussions of future priorities.

Topical Areas:

- Structured Surfaces to Effect Function
- Freeform Optics
- Large Scale Surface Structuring

About the meeting:

The ability to deterministically alter the topographic structure of a surface can have a profound effect on how that surface functions. Surface effects cause many mechanical components to fail and can contribute significantly to the cost of a device. Control of the areal nature of a surface allows the manufacturer to alter how a surface interacts with its surroundings. In this way optical, tribological, biological, fluidic and many other properties can be altered.

For example, control of topography is important for:

- surface structuring to encourage the binding of biological molecules, for example proteins, cells or enzymes;
- freeform optics to significantly reduce the amount of optics in imaging systems;
- micro-lens arrays for displays and photo-voltaics;
- prismatic arrays for safety clothing, signage and LED lighting;
- nanostructured surfaces that affect plasmonic interactions for anti-reflection coatings, waveguides and colour control;
- surfaces of microfluidic channels for flow control, mixing, lab-on-a-chip and biological filtering;
- deterministic patterning to control tribological characteristics such as friction, rheology and wear.

Also, of key importance these days, is that the ability to deterministically structure a surface can have positive effects on energy consumption, lifetime and waste production rates.

Please notice that participation to this meeting may be possible for members only.

Look [HERE](#) for more information about this event.

Lokalität - Fraunhofer IPT - Aachen

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