

WORKSHOP:

Sputtering for Precision Optics II – Digital Transformation Driven Trends in the Coating Technology

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Photonic technologies play a key role in the ongoing trend towards digitalisation in almost all areas of technology and everyday life. Photonic sensors, integrated optics and miniaturised optical systems enable technological innovations, new monitoring methods and process optimisation for the digitalisation and automation of the industrial production.

The production of such optical systems and the development of new markets and applications requires further development of technologies and the in-depth characterisation of complex processes in the optical manufacturing. The aim is to design these precisely and cost-effectively and to develop the manufacturing processes. Compared to processes in the electronics production, the effort involved is usually higher due to the significantly greater range of functions, materials and structures. At the same time, an increasing fusion of both areas, e.g. optical functionality at wafer level, can be recognised. This is referred to as Wafer Level Optics.

Innovative production technologies for optical coatings, e.g. for anti-reflective coatings and dielectric mirrors, filters, beam splitters and waveguides are essential for applications in the miniaturized optical systems and integrated optics, for image processing, photonic sensors and in the semiconductor industry. Sputtering technology is one of these modern technologies. In this workshop, we would like to show you new, digitalization driven trends in the technologies and applications and how a wide variety of coating materials with the desired properties can be applied to optics made of glass, metal or other materials.



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