

HiLASE Centre is pleased to invite you to attend the seminar

## Superhydrophobic Surface by Laser $\mu$ -Machining

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The availability of advanced fiber and Diode-pumped solid-state lasers (DPSS) with characteristic pulse lengths ranging from ns to fs has provided the opportunity develop micro and nano structures for diverse kinds of materials and applications. Development of perfect metallic surfaces that can repel liquids has variety of applications ranging from automobiles to aircraft. The state of the art of ultrafast lasers have been used to generate bioinspired surfaces with high water repellency by direct laser writing technique. The presentation focuss on the recent progress of bioinspired superhydrophobic surfaces generated by laser ablation technique. It also elaborates the dewetting effects with natural examples, laser fabrication of Superhydrophobic/ultrahydrophobic metallic surfaces, as well as geometrical and surface chemistry requirements for dewetting properties.

**When: Tuesday, 18/12/2018 at 14:00**

**Where: Seminar room, HiLASE Centre, Dolní Břežany, Za Radnicí 828**