

*Oddělení diodově čerpaných laserů, sekce výkonových systémů,  
a realizační tým projektu HiLASE  
Vás zve na seminář*

# "Warm laser shock peening"

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An overview of laser shock peening processes with emphasis on novel aspects will be given. Both cold and warm laser processes will be presented together with the influence of laser parameters and scanning strategies on the compressive surface tension and strain depth. The main parameters investigated are process setup, pulse duration, spot shape, power density, type of confinement material and its thickness, type of ablative layer and its thickness, number of pulses and overlapping percentage between pulses, and substrate temperature. Particular attention will be reserved to the pulse shape effects on surface tension. The principal modelling technique together with practical example will be also presented.

***který se bude konat dne 4.6.2013 od 10:00  
v přednáškové místnosti „akvárium“ v 1. patře  
Ústavu Informatiky AV ČR, v.v.i.***