Extreme Photonics Seminar

Language: English

No. 3

Date: June 12 (Mon), 2017, 14:00–15:00

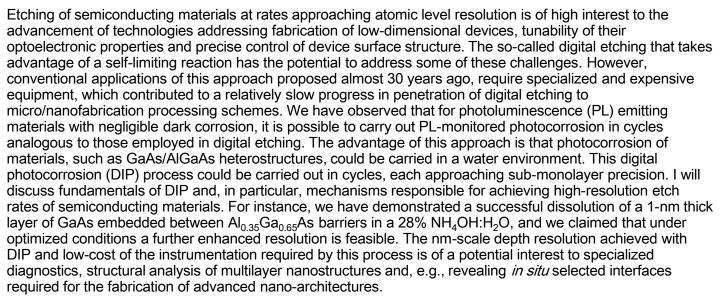
Location: W524, 5F, Cooperation Center, Wako Campus, RIKEN

Title : Digital Photocorrosion of GaAs/AlGaAs Heterostructures: Biosensing Applications

Speaker :

Prof. Jan J. Dubowski

Interdisciplinary Institute for Technological Innovation (3IT) Université de Sherbrooke, Canada



We have explored the sensitivity of DIP to perturbations induced by electrically charged molecules, such as bacteria, immobilized on semiconductor surfaces. Here, I will highlight our recent studies on detection of *Escherichia coli and Legionella pneumophila* bacteria immobilized on antibody functionalized GaAs/AlGaAs biochips. I will also discuss the application of this approach for studying antibiotic reactions of bacteria growing on biofunctionalized surfaces of GaAs/AlGaAs biochips.

