

## Session 1: Microfactory Concepts

### ***On Demand Manufacturing System ~ A Solution of Ecological MEMS Factory***

S. Nakano, K. Ashida, J. Park, J. Akedo. *National Institute of Advanced Industrial Science and Technology (AIST), Japan.*

### ***M<sup>3</sup>, μ<sup>3</sup>, and N<sup>3</sup>: Top-down, Deterministic Macro to Nano Robotic Factories with Yield and Speed Adjusted Precision Metrics***

D. Popa, A. Das, R. Murthy. *The University of Texas at Arlington, U.S.A.*

### ***Microchemical “Nanofactories” for Scaling the Production of Nanomaterials***

B. Paul, G. Lingam, H. Jin, C. Chang, J. Rundel, V. Remcho. *Oregon State University, U.S.A.*

### ***Implementation of a Bacterial Microfactory***

S. Martel, M. Mohammadi, M. Mankiewicz, C. Tremblay, Z. Lu. *Ecole Polytechnique de Montreal (EPM), Canada.*

### ***A Microfactory Concept for Laser-Assisted Manufacturing of Personalized Implants***

R. Heikkila, A. Huttunen, A. Vuola, R. Tuokko. *Tampere University of Technology, Finland.*

### ***Flexibility and Cost Efficiency of Desktop Factories based on Process Simulations***

A. Burisch, C. Lochte, K. Schottler, A. Raatz, J. Hesselbach. *Technische Universitat Braunschweig, Germany.*