## Micro@Nano-Fabrication-Austria

## E.J. Fantner

## IMS Nanofabrication, Vienna, Austria

Micro@Nano-Fabrication-Austria (MNFA) is a cluster-project within the Austrian Nanoinitiative. It is carried by 19 partners from university, Fachhochschule, non-university centers, Kplus-competence centers and industry. The cluster consists of 33 specific projects which cover 5 topical issues. These are

- Micro@Nano Structuring
- Bio-inspired Materials
- Functionalised Nanomaterials
- Nanodevices
- Sensors & Actuator Systems

The common denominator of all these projects is the use of large-field ion projection optics for 2- and 3-dimensional direct structuring of matter in the micro & nano scale.

The main topic of my talk will be the description of the innovative business creation approach based on the rather unique co-operation between basic research, applied research and commercial product development in the early phase of the Technology Adoption Life Cycle. The resulting competitive advantages in terms of time-to-market, risk-to-market and road-to-market will be discussed. Describing the business life cycle in the environment of a discontinuous innovation by 4 phases, it will be shown how the complementary strengths of basic (university) research and commercial product development can be exploited in the best way. Criteria and specific examples within the MNFA-project will be presented.

An attempt to benchmark this Austrian cluster approach against other concepts within relevant segments of the global micro & nano market will made.