

## Special Interest Group on Precision Micro-fabrication Technologies

The Precision Micro-fabrication Technologies Special Interest Group was established to help Canadian industry with the state-of-the-art knowledge, facility access and micro fabrication capabilities for the development of novel micro products, components, and Microsystems. Pre-competitive research and development projects are defined in collaboration with the members. The generic technologies can then be further customised into specific applications through targeted one-on-one collaborations.

The use of micro products, micro components and their assemblies has been increasing significantly during the past few years. Market surveys predict that the world market will increase from US \$60 billion to \$300 billion by 2025. Products of high growth rate include electronics, sensors, medical devices, automotive and aerospace components.



*Pre-competitive collaborative research*

This proven collaboration model provides a cross-functional technology platform to forge durable relationships with key industrial partners, to maximise the impact through collaborative pre-competitive projects and to increase the awareness level in industry and academia. The SIG projects may benefit members in areas of cost reduction, time reduction and quality improvements through:

### Improvements in development cycle time:

- Prediction of engineering requirements to launch new products
- Reduction of problems and ramp-up time

- Improved market response time.

**Improvements to products and processes:**

- More efficient processes and reduced costs
- Improved quality & product consistency
- Improved robustness and capital utilization.

For more information about the SIG on Precision Micro-fabrication Technologies, please contact:

Dr. Suwas Nikumb, Coordinator

Telephone: 519.430.7058

Fax: 519.430.7064

For general information please contact:

NRC-Integrated Manufacturing Technologies Institute

800 Collip Circle

London, ON N6G 4X8

Canada

Tel: 519.430.7000

Visit our website: [www.imti-itfi.nrc-cnrc.gc.ca](http://www.imti-itfi.nrc-cnrc.gc.ca)

*Recognized globally for research and innovation, Canada's National Research Council (NRC) is a leader in the development of an innovative, knowledge-based economy for Canada through science and technology.*

April 2006

Disponible en français