



## **For Immediate Release**

### **MIMOS & UNIVERSITI MALAYSIA PERLIS IN COLLABORATION TO DEVELOP MEMS SENSORS FOR AQUACULTURE**

**PERLIS, 13 November 2008** – MIMOS and Universiti Malaysia Perlis (UniMAP) signed a Memorandum of Agreement (MoA) today to formalise a partnership for the development of Micro-Electro-Mechanical Systems (MEMS) sensors for environmental monitoring in aquaculture.

The collaboration will see the development of MEMS sensors connected to the wireless sensor networks to promote the aquaculture sector by monitoring levels of water pollution such as nitrate, dissolved oxygen and ammonia and other by-products of agriculture.

The collaboration with UniMAP complements MIMOS' existing applied research in MEMS sensors. MIMOS applied research in MEMS, one of eight applied research areas, involves exploring microfluidics and complementary metal-oxide-semiconductor (CMOS) sensing technologies for developing MEMS-based applications and solutions.

Under the agreement, MIMOS and UniMAP will set up a Centre of Excellence (CoE) in the area in tandem with the Northern Corridor initiative in agriculture industry.

"MIMOS applied research in MEMS meets the emerging aquaculture sector needs of the market by developing cutting edge technology platforms which offer simple solutions to complex aquaculture issues," said Dato' Abdul Wahab Abdullah, President and CEO, MIMOS.

"MEMS today is already revolutionizing every product category by combining the best of semiconductors, microbiology, optics, and high frequency wireless

communications. We now bring the technology into a new domain of aquaculture," he added.

The MEMS technology lab at MIMOS is also currently working with Universiti Putra Malaysia in the area of sensor validity to build tacit knowledge for farming. MIMOS is also in collaboration with Universiti Kebangsaan Malaysia in developing sensors for plantation and green house farming.

MIMOS' collaboration with universities is part of its effort to assemble a team of virtual researchers and create domain experts in specific areas.

This effort is also in line with the National Innovation Coordinating Action Committee of the National Innovation Council and the Ministry of Higher Education's recent announcement to upgrade and promote CoEs at public universities.

Ultimately, the collaboration between MIMOS and UniMAP is expected to result in the advancement of aquaculture through the use of enabling technologies of MEMS wireless sensor.

- Ends -

#### **About MIMOS**

MIMOS pursues exploratory and industry-driven applied research through multi-stakeholder smart partnerships with universities, research institutes, Government and industries with a focus on frontier technologies. MIMOS' applied research areas, based on real-world trends, are cyberspace security, encryption systems, grid computing, communication technologies, MEMS/NEMS, advanced informatics, knowledge technology and micro energy.

MIMOS is the recipient of Frost & Sullivan's Growth Excellence Award 2007 for Industry Innovation & Advancement (Precision Agriculture) for its application and development of Micro Electro Mechanical System (MEMS) in the field of precision agriculture.

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