



FOR IMMEDIATE RELEASE

April 17, 2009

Micromem Technologies Inc. Completes Private Placement

Toronto, New York, April 17, 2009: Micromem Technologies Inc. (the "Company") (CNSX: MRM, OTCBB: MMTIF) announces the completion of a non-brokered arm's length private placement of 174,419 common shares at a subscription price of CAN \$0.86 per common share for the gross proceeds of CAN \$150,000.

The proceeds from the offerings will be used for general working capital purposes and will be subject to resale restrictions.

About Micromem Technologies Inc. and MASTInc:

MASTInc is a wholly owned U.S.-based subsidiary of Micromem Technologies Inc., a publicly traded (OTC: MMTIF CNSX:MRM) fabless semiconductor company with headquarters in Toronto, Canada and an office in New York City. Micromem holds and continues to develop a broad-based patent portfolio of Magnetoresistive Random Access Memory (MRAM) and magnetic sensor technologies. Micromem's MRAM patents create a solution for performance driven, radiation hard, non-volatile memory applications. MASTInc is focused on business development efforts and is working on the launch of sensory products for use in both defense and consumer applications. Its first product, GC-0301, is far superior to the competition with over 200 V/T, making it one of the most sensitive hall sensors on the market without the need for external amplification. MASTInc is working with companies that have large-scale capabilities and expects to sign contracts in the coming quarters.

Safe Harbor Statement

This press release contains forward-looking statements. Such forward-looking statements are subject to a number of risks, assumptions and uncertainties that could cause the Company's actual results to differ materially from those projected in such forward-looking statements. In particular, factors that could cause actual results to differ materially from those in forward looking statements include, our inability to obtain additional financing on acceptable terms, risk that our products and services will not gain widespread market acceptance; continued consumer adoption of digital technology, inability to compete with others who provide comparable products, the failure of our technology, inability to respond to consumer and technological demands, inability to replace significant customers; seasonal nature of our business and other risks detailed in our filings with the Securities and Exchange Commission. Forward-looking statements speak only as of the date made and are not guarantees of future performance. We undertake no obligation to publicly update or revise any forward-looking statements. When used in this document, the words "believe," "expect," "anticipate," "estimate," "project," "plan," "should," "intend," "may," "will," "would," "potential," and similar expressions may be used to identify forward-looking statements.

The CNSX or any other securities regulatory authority has not reviewed and does not accept responsibility for the adequacy or accuracy of this press release that has been prepared by management.

Listing: NASD OTC-Bulletin Board - Symbol: MMTIF

:CNSX - Symbol: MRM

Shares issued: 86,768,981

SEC File No: 0-26005

Contact: Jason Baun, 1-877-388-8930