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**NOVA MEASURING INSTRUMENTS
SECOND QUARTER 2007 RESULTS RELEASE**

Conference Call Scheduled for August 1st, 2007 at 10:00 am EDT

REHOVOT, Israel – July 23, 2007 – Nova Measuring Instruments Ltd. (NASDAQ: NVMI), provider of leading edge stand-alone metrology and the market leader of integrated metrology solutions to the semiconductor process control market, announced that it will release its second quarter 2007 results on August 1st, 2007 before the US markets open. It will also host a conference call to discuss those results on August 1st, 2007, at 10:00 am EDT.

On the call, Mr. Gabi Seligsohn, President & CEO, and Mr. Dror David, CFO, will review and discuss the second quarter results and other business developments, and will be available to answer questions.

To participate, please call one of the following teleconferencing numbers. Please begin by placing your calls 5 minutes before the conference call commences. If you are unable to connect using the toll-free numbers, please try the international dial-in number.

U.S. Dial-in Numbers: 1 866 860 9642
U.K. Dial-in Number: 0 800 032 3367
ISRAEL Dial-in Number: 03 918 0687
INTERNATIONAL Dial-in Number: +972 3 918 0687

At:

10:00 a.m. Eastern Time
7:00 a.m. Pacific Time
5:00 p.m. Israeli Time

For those unable to participate in the conference call, there will be a replay available the day following the call on Nova's website at www.nova.co.il.

About Nova

Nova Measuring Instruments Ltd. develops, produces and markets advanced integrated and stand alone metrology solutions for the semiconductor manufacturing industry. Nova is traded on the NASDAQ & TASE under the symbol NVMI. The Company's website is www.nova.co.il.

