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Symposium GG: Ion-Beam-Based **Nanofabrication**

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81-29-863-5433

April 10 - 12, 2007

Chairs

Daryush Ila John Baglin Center for Irradiation of IBM Almaden Research Material Center Alabama A&M University K10/D1 Huntsville, AL 35762-650 Harry Rd. 1447 San Jose, CA 95120 256-372 8703 408-927 2280

Paul K. Chu Naoki Kishimoto Quantum Beam Center National Institute for Materials Science Kong 3-13 Sakura, Tsukuba Ibaraki, 305-0003 Japan

Dept. of Physics and Materials Science City University of Hong Tat Chee Ave. Kowloon, Hong Kong 852-2-788-7724

Symposium Support

National Electrostatics Corporation National Aeronautics and Space Administration

National Institute for Materials Science, Tsukuba

Alabama A & M University Research Institute (AAMURI)

Proceedings to be published in both book form and online (see Proceedings Library at www.mrs.org/publications_library) as volume 1020 of the Materials Research Society Symposium Proceedings Series.

* Invited paper

SESSION GG1: Ion Beam Nanofab: Tools and Techniques Chairs: John Baglin and Robert Zimmerman Tuesday Morning, April 10, 2007 Room 3016 (Moscone West)

8:45 AM *GG1.1

Ion-Beam Projection Techniques for Nanometer-Scale Patterning Ka-Ngo Leung, Plasma and Ion Source Technology Group,, Lawrence Berkeley National Laboratory, Berkeley, California; Nuclear Engineering Department, University of California, Berkeley, California.

Maskless ion beam lithography schemes have been investigated at Lawrence Berkeley National Laboratory (LBNL) for future integrated circuit manufacturing, thin film media patterning, and micromachining. The Maskless Micro-Ion-Beam Reduction Lithography (MMRL) system completely eliminates the first stage of the conventional IPL tool that contains the ion beam illumination column before the

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