

Manufacturing Research Seminar

Winter 2007

University of Michigan, Ann Arbor

College of Engineering

Refreshments Provided

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Recent Developments in Physical and Chemical Micromachining Processes

The rapidly increasing demand for miniaturized components from diverse industries such as aerospace, biomedical, automobile, healthcare and consumer electronics has necessitated the need for innovative micromachining processes. Micromachining over the years has matured to become an indispensable technology that offers reliable solutions to produce complex shaped micro parts made of metals, ceramics, polymers and composites. This presentation consists of an overview of the micromachining processes and techniques being practiced worldwide. Capabilities of individual physical and chemical micromachining processes will be discussed. Recent research results of micro-Electrical Discharge machining (micro-EDM), micro-Electrochemical Machining (Micro-ECM) and micro—Ultra Sonic Machining (micro-USM) projects will be presented. Related issues such as education and environmental aspects will also be briefly discussed.

Thursday, January 11, 2007

4:00—5:00 PM

1017 H. H. Dow Building

For More information, please call Kathy Bishar at (734) 764-3312 or email at kbishar@umich.edu
http://interpro.engin.umich.edu/mfgeng_prog/mfg_w07.htm

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