



October 30, 2006

George B. Adams, Ph.D.
Birck Nanotechnology Center
Purdue University Discovery Park
610 Purdue Mall
West Lafayette, Indiana 47907

Subject: Information Update - Molecular Vapor Deposition

Dear Dr. Adams:

Thank you for your potential interest in MVDTM processing that has won several awards, including Semiconductor International Editors' Choice for Best Products of 2006 and Frost & Sullivan's 2006 Technology Innovation Award for Advanced Materials Processing.

MVD Series Systems

The enclosed system brochure overviews general features and benefits. Applications Notes for MEMS, Nano-Bio, Nanoimprinting, Hard Disk and published technical papers are also available for your review in hard copy or at our website.

MVD delivers precise and repeatable Nano-Coatings – only Angstroms thick – to be reliably deposited at Low Temperatures for:

- MEMS Protective Surface Coatings to reduce adhesion and stiction of displays, actuators, resonators, accelerometers, gyros, Nano-Imprint stamps and other devices
- Controlling surface wetting properties from Hydrophobic to Hydrophilic to optimize performance and reliability in micro-channels, micro-nozzles, glass slides, lenses, biochips and other substrates
- Improved Bio-compatibility for medical devices, tools and implants with the ability to coat challenging materials including hydrophobic layers on gold
- Operating Costs significantly lower than less reliable, wet process sequences

The MVD100 is used at forty academic and commercial facilities, including Bio fabs.

Automated MVD150 production level systems are also shipping in selected configurations and will be released for other applications by late this year. Our Press Release is included.



Applied MicroStructures' MVD systems incorporate advanced and unique design features that enable precise and conformal Self Assembled Monolayers (SAMs), including:

- Downstream plasma pre-conditioning to optimize surface preparation and hydroxylation of all exposed substrate surfaces
- In-situ process chamber cleaning on every cycle
- Proprietary, temperature controlled delivery lines for accurate micro-dosing of precursors – with levels so low that scrubbers are not required

MVD Process Services

Both our MVD Systems sales and Processing Services have grown significantly. We now have five systems running in our facility. While our primary business remains the sale of systems, many Clients choose Applied MicroStructures for their Research, Development, Proof of Product and even Pilot Production.

Customers evaluating systems for purchase qualify for a Complimentary Process session. If the results do not meet AMST's projected results, a second Complimentary Process is offered. Extended testing and other categories are done through Contracted Services with a mechanism for Customers to earn credit towards system purchase.

Prior to our acceptance of Process work, Customers complete the attached Process Request Form (PRF). PRFs are reviewed by our Lab Committee weekly. We then advise Customers if the Samples are accepted and charges are quoted if and when applicable.

Please feel free to contact me with any questions. Meanwhile, we look forward to serving your research needs.

Sincerely yours,



Lynn E. Ochs
Senior Director, Worldwide Sales

Enclosures:

AMST MVD100 Brochure
AMST Process Services

MVD150 Press Release
AMST Process Request Form

