New Product Line Announcement

Dear Colleagues,

The Plasma Systems business unit is proud to announce the launch of an entirely new line of products developed to meet today’s and future needs of the continually advancing technologies across a broad spectrum of unique markets.

During this extraordinary economic downturn our teams have been hard at work utilizing all of our internal resources to meet quickly changing demands and step forward into the future. We have made significant progress in expanding our global presence, advancing equipment design and applications development in preparation to rapidly meet the needs of our customers as we begin to emerge from this recession during the second half of 2009. Our two new product lines will allow both us and our business partners to excel in traditional market spaces and conquer some new potential markets through improved modularity, new advanced hardware and software features in addition to aggressive pricing to significantly grow our market share and prevail over our existing competition.

The business unit ‘Plasma Systems’ of PVA Tepla Group is comprised of two manufacturing and sales facilities, one based in Munich-Feldkirchen, Germany (PVA Tepla AG) and the other in Corona, CA, USA (PVA Tepla America, Inc.). Munich is the competence center for Semiconductor applications and Corona focuses on Life Science, Electronic (non-semiconductor) and Industrial applications.

As of August 1st, 2009 we are introducing globally our new product lines:

- the **GIGA line** for the **Semiconductor** market and

- the **IoN Line** for **Life Science, Electronic** and **Industrial** markets

I. The **GIGA Line**

This line of equipment meets all the specific requirements and stringent standards of the Semiconductor Industry and in particular achieves the lowest metal and particle contamination required to manufacture the next generation of semiconductor devices. The equipment was designed to accommodate full factory automation through SECS/GEM communication. The equipment leverages Microwave (MW) technology which optimizes precision cleaning, activation, photo resist ashing and Silicon etching.

The **GIGA Line** is comprised of 3 individual product platforms:

- the **GIGAbatch** series: high throughput batch ashers for typical front end applications like Power Devices, CMOS, MEMS, III/V- and HB LED types of devices.
- the **GIGAfab** series: advanced Single Wafer Ashers for Implanted Resists, Descum processes for Wafer Bumping, SU-8 and Release Layer Removal for MEMS and large area plasma precision cleaners and surface functionalization for FPD (e.OLED/PLED).

- the **GIGA** series: focuses on back-end Chip Packaging meeting the special challenges of precision cleaning and activation prior die attach, wire bonding, Flip Chip under-fill or molding.

II. The **IoN Line**

The IoN line of vacuum plasma chambers was developed to address atomic and nano scale surface treatment and functionalization for emerging applications in Life science, Electronics and Industrial markets. This equipment leverages Radio Frequency (RF), Microwave (MW) and Atmospheric Plasma technologies and offers a new level of hardware and software flexibility not previously available in the market.

The **IoN Line is comprised of 4 individual product platforms:**
- The **Atmospheric Plasma Systems line:** The technology based on the patented Plasma Pen can be operated manually or fully automated by robotic arms and Cartesian tables.
- The **IoN 40, 100, 140, 140T, 190:** (i.e. Aluminum, Stainless Steel, Ceramic or Quartz, standard Multi-Shelf, Hanging or Tumbling chamber options with volumes of 40, 100, 140, 190 Liters respectively).
- The **IoN WAVE 10:** developed to meet the needs for global Research and Development institutes.
- The **IoN 500HP:** a high volume manufacturing tumbling plasma treatment system with hopper based material feeding system.

The new IoN and Giga lines will replace PVA TePla’s previous models which consisted of the M4L, 7200, 9200 M7-I, PS210, PS300, PS690 Solar, 4008, PS90, PS4008 and the PS4011.

Our new equipment lineup offers design features born from direct input from our customers with decades of production usage of our evolving products with the lineage of the founding companies IPC, Dionex, Branson, Gasonics, Metroline, Plasma Technics and TePla. The new equipment meets the latest industrial and medical design and safety standards, improved reliability, easier and more intuitive operation, serviceability, and finally complete scalability to allow migration from small lot R&D through extremely High Volume Manufacturing.

We are confident that you will find these new product offerings as exciting as we do. We are working diligently to develop and distribute the supporting sales and marketing information for each specific product to our global sales network. In addition we have already implemented sales and applications training via conference call and web based software applications to allow for immediate product introduction and familiarization.

Best Regards,

PVA TePla America, Inc.

Bill Marsh
President