

Trade Press Release

West Conshohocken, PA, USA November 26, 2013

Heraeus Increases R&D Capabilities at its Conshohocken Site

- **Heraeus continues its commitment to the PV Industry through consolidated R&D efforts.**
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Heraeus' Photovoltaics Business Unit is enlarging their Research and Development organization at its site in West Conshohocken, Pennsylvania. This involves the relocation of R&D members of other Heraeus sites to Conshohocken, and also includes the hiring of new R&D specialists and the expansion of lab infrastructure.

As Dr. Weiming Zhang, Vice President Technology, points out, "the PV industry is highly dynamic, so our rapid development and launching of new innovative paste products is a critical element for the success of our customers. By enlarging the team and performing core research activities in one site we will be able to continuously launch 2-3 new products every year. Through our Application and Technical Service Centers located in China, Taiwan, Korea, Japan, Singapore and Germany, we will continue working very closely with partners and customers."

Speed of development is a key success factor in the fast moving PV industry. This new investment in the Conshohocken site will keep Heraeus at the forefront of silver paste technology. Heraeus has been a technology leader in silver paste ever since it entered this industry in 2008. Under the leadership of Dr. Weiming Zhang, a growing number of scientists have developed several generations of leading-edge silver paste formulations since their initial product introduction of the SOL9235 Series.

About the Heraeus Photovoltaics Business Unit

The Heraeus Photovoltaics Business Unit is an industry leading developer and manufacturer of silver metallization pastes for the photovoltaic industry. For over 40 years, Heraeus has built a reputation of innovation, extensive research and new product development in thick film technologies for some of the most prominent companies within a variety of industries. In the field of photovoltaics, the Heraeus Photovoltaics Business Unit applies this history and its innovative technology to offer metallization pastes for solar cell applications. The Heraeus SOL Series of silver pastes is specially formulated to provide higher efficiencies and wider processing windows, resulting in better yields and higher output for cell manufacturers.

Heraeus, the precious metals and technology group headquartered in Hanau, Germany, is a global, private company with more than 160 years of tradition. Our fields of competence include precious

metals, materials and technologies, sensors, biomaterials and medical products, quartz glass, and specialty light sources. In the financial year 2012 Heraeus generated product revenues of €4.2 billion and precious metal trading revenues of €16 billion. With more than 12,200 employees in over 100 subsidiaries worldwide, Heraeus holds a leading position in its global markets.

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