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Alpha's Pujari to Present on Interconnection Technologies for Floating PV Applications at Intersolar India

Somerset, NJ – December 4th, 2018 – Alpha Assembly Solutions, the world leader in the production of electronic soldering and bonding materials, is participating in the upcoming [Intersolar India](#) taking place December 11-13 in Bangalore, India.

Narahari Pujari, R&D Manager for Alpha Assembly Solutions, part of the MacDermid Performance Solutions group of businesses, will present a technical paper on *A review of Interconnection Technology for Floating PV Applications* that critically assesses various cell designs, material and techniques to join cells for floating PV assemblies.

“It is reported that 40.7% of cSi PV (photovoltaic) modules fail at interconnection in a module’s lifespan. This risk is even higher in floating PV applications. This is due to high moisture content and corrosion resulting from adverse environmental conditions as well as instability in times of inclement weather, hazardous condensation in the interior etc.,” said Pujari. “Additionally, joints that are exposed to fatigue loading and vibrations have shown metal segregation, grain boundary coarsening/cracking, increased series resistance and heating issues. The industry is still evaluating interconnection options in new cell designs. All these make the review of interconnection technologies employed in floating PV imperative.”

Pujari’s paper will demonstrate the role of non-corrosive flux and EVA compatibility studies. In addition, use of lead-free soldering and solder paste technologies to support the current design trend of new cell architectures will be presented. Both options are cost efficient and could improve the module performance and consequently extend the mean-time-to-failure (MTTF).

For more information on Alpha’s solder interconnect technology, or any of our other product solutions for [Photovoltaic](#) applications, visit the [AlphaAssembly.com](#).





2018 Intersolar India

Date: Tuesday 11th December, 2018 – Thursday 13th December 2018

Venue: Bangalore, India

Presentation: A Review of Interconnection Technologies for Floating PV Application

Date: 12th December 2018

Time: 11:35 am

Presented by: Narahari Pujari, R&D Manager, Alpha Assembly Solutions

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About Alpha Assembly Solutions

Alpha Assembly Solutions, a MacDermid Performance Solutions Business, is the global leader in the development, manufacturing and sales of innovative specialty materials used in a wide range of industry segments, including electronics assembly, power electronics, die attach, LED lighting, photovoltaics, semiconductor packaging, automotive and others.

With a unique global presence in over 30 locations throughout the Asia Pacific, Americas and Europe regions, Alpha supplies a full line of ALPHA® electronics assembly material products, including Solder Paste, Exactalloy® Solder Preforms, Cored Solder Wire Solder, Wave Soldering Fluxes, Bar Solder Alloys, and Stencils. It offers die attach product technologies to the power electronics segment in its Argomax®, Atrox™ and Fortibond™ brands.

For the LED segment, Alpha offers its Lumet™ products covering applications from die attach to systems assembly in the LED manufacturing process. Alpha also offers product technologies for the Photovoltaic segment, including high performance liquid fluxes and solder alloys for producing standard ribbon and bus bar, as well as, solder pastes, cored wire, conductive adhesives and preforms for use in PV module assembly. Also, Alpha's Advanced Materials unit is the leader in electronic polymers and solder materials for semiconductor packaging applications.

Since its founding in 1872, Alpha has been committed to developing and manufacturing the highest quality specialty materials. For more information, visit www.AlphaAssembly.com.

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