



## PA&E Bonded Metals Division to Participate in American Physical Society's March Exposition

**Media Contact:**  
Laura Mawbey  
VP Sales and Contracts  
509-667-5122  
lmawbey@pacaero.com

### **Press Release**

*Innovative explosive metal welding and explosive metal forming applications to be highlighted*

**Wenatchee, WA – Feb. 25, 2009** – Seven thousand of the top scientists involved in physics research and applied physics will have the opportunity to learn more about PA&E's innovative explosive metal welding and forming processes at the American Physical Society's (APS) March meeting, held March 16-20 at the David L. Lawrence Convention Center in Pittsburgh, PA.

"We're looking forward to this opportunity to discuss our unique explosive metal welding and explosive metal forming techniques with this distinguished group," said Joe Munn, director of PA&E's Bonded Metals Division. "I encourage everyone to visit us at booth 532 learn more about how we weld dissimilar metals together with explosive charges and how those composites are then used in space applications and UHV applications; within the semiconductor industry; on US Naval warships, and in the construction of high pressure vessels."

[Explosive welding](#) is a solid-state welding process that uses controlled explosive energy to force two or more different metals together. (See a short video explaining the process [here](#)). A composite can be designed and fabricated to combine the most desirable properties of very different metals, allowing designers to optimize the performance of the composite for characteristics such as high temperature or cryogenic resistance, high strength, thermal or electrical conductivity, enhanced mechanical properties and corrosion resistance.. A wide [range of metals](#) such as steel, stainless steel, copper alloys, nickel alloys, titanium, zirconium, tantalum, aluminum and many others can be joined through explosive welding.

PA&E's Bonded Metals Division also specializes in explosive metal forming – an

efficient technique that uses the energy generated by an explosive detonation to form a metal work piece. Explosive hydro-forming can offer significant cost savings on short-run parts because it often only requires a one-sided tooling die.

The American Physical Society was founded on May 20, 1899. APS now has fourteen divisions and nine topical groups covering all areas of physics research. There are six forums that reflect the interest of its 46,000 members in broader issues, and eight sections organized by geographical region.

For more information about PA&E's explosive metal welding and forming capabilities or to learn about [its](#) integrated electronic packaging solutions, custom interconnect products, capabilities or EMI filter product line, contact the company at 509-664-8000 or visit at <http://www.pacaero.com>.

*PA&E, Inc. is an integrated manufacturing company, specializing in technically demanding ceramic and metal components and assemblies, hermetic connectors and advanced micro-electronic hermetic packaging for global leaders in the defense, space, medical and commercial industries. PA&E is ISO 9001:2000/AS9100 Rev B certified and NADCAP compliant.*

**PA&E – 434 Olds Station Road – Wenatchee, WA – 98801 – Tel: 509-664-8000 – Fax:  
509-664-6868**

###