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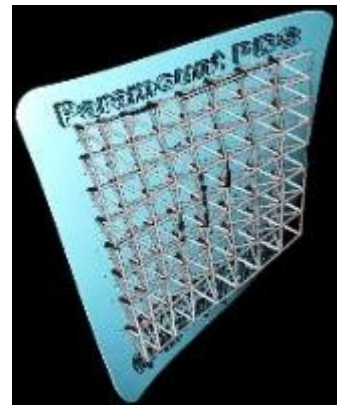
Paramount Industries Receives Enthusiastic Response over Conformal Lattice Structures (CLS™), a Patent Pending Break-Through Technology for the Direct Digital Manufacturing Industry

Paramount, a suburban Philadelphia based industry leader of product development and direct digital manufacturing services, recently announced at SME's RAPID 2009 Conference & Exposition its collaboration with the Georgia Tech Research Center for Conformal Lattice Structures (CLS™), a pioneering additive manufacturing design and fabrication process with widespread benefit to the aerospace and medical industries.

Langhorne, PA (PRWEB) June 25, 2009 – [Paramount Industries, Inc.](http://www.paramountind.com) recently announced its successful patent pending Conformal Lattice Structures (CLS™) via Additive Manufacturing Technologies - an innovative method for reinforcing components with designed performance to achieve substantial weight to strength ratios. This proprietary manufacturing technology will serve as a major advancement for using [direct digital manufacturing](#) via [laser sintering](#).

Jim Williams, President and CEO of Paramount, believes the impact of this new technology on the direct digital manufacturing industry will be profound. "Automated population of complex geometry with cellular type structures is truly a breakthrough. It represents the first additive manufacturing design tool for designers and engineers."

Williams is adamant that CLS™ technology will continue to receive an avid response from designers and engineers within all industry sectors, especially aerospace and defense. "Add to this a patented process for consistent and repeatable fabrication of high strength to weight parts using selective laser sintering (SLS) and other additive processes. Aerospace designers will benefit from its light weight, and the ability to eliminate tooling cost and lead times required by other fabrication processes. Direct Digital Manufacturing (DDM) gives the design engineer the ability to optimize the part design unrestricted of traditional molding paradigms with their inherent design limitations."



Unlike traditional *uniform* lattice structures, *conformal* lattice structures allow for the alignment of unit cells along force directions, achieving predictable behavior, a more efficient starting design for optimization, and a higher aesthetic appeal. This technology will permit an engineered optimization of the unit cells and lattice structure, predict mechanical performance, and take advantage of freeform geometrics. The goal for CLS™ methodology is to attain repeatable results through orientation, material quality control, thermal control, process control, and mechanical performance.

- more -



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CLS™ will greatly benefit the defense and aerospace industries, providing a lighter, easily applicable material with the potential for multi-functional capabilities. Strength, heat conduction, vibration absorption, and impact absorption are all possible capabilities for CLS™ break-through technology.

Paramount's three-year partnership with Dr. David Rosen, Director of The Rapid Prototyping & Manufacturing Institute at the Georgia Institute of Technology's George W. Woodruff School of Mechanical Engineering, has since engineered two patent applications for CLS™ technology.

Luis Folgar, Paramount R&D Manager, explains the importance of this collaboration and the effect the success of the program will have on additive manufacturing, "The collaboration between Georgia Tech and Paramount bridged the gap between scientific knowledge and applied science to deliver a technology for additive manufacturing that provides a true 'out of the box' tool for DDM."

"Selective Laser Sintering has been praised for years for being one of the most suitable technologies for the direct manufacturing of very complex end-use parts", Folgar adds. "Paramount's CLS technology is the most innovative design and fabrication tool that I have seen for SLS so far; it truly highlights the advantage of freeform and pushes the limits of what we can do with this technology."

About Paramount Industries, Inc. - Ahead of the Curve

Paramount Industries, Inc. is among the world's most experienced providers of [product development services](#), including design engineering and analysis, [rapid prototyping](#), rapid tooling and direct digital manufacturing technologies that produce custom parts direct from digital input. Founded in 1966, the company's headquarters and principal engineering and manufacturing facilities are located in Langhorne, PA.

For more information on Paramount's CLS™ technology, or any of Paramount's wide range of service offerings and capabilities, visit Paramount's interactive website for up to date information on [rapid manufacturing services](#), industry applications, material specifications, corporate news, a rapid manufacturing blog, and industry trends: <http://www.paramountind.com>.

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