



Orlando company produces new material for space applications

X-MAT® in partnership with Polymertal creates lightweight metal plastic composite

ORLANDO, Fla. (Jan. 29, 2019) – An Orlando company is working on a new material that may have applications for future space explorations including cutting the weight by up to 70 percent.

X-MAT®, the Advanced Materials Division of Semplastics, is collaborating with their Israeli partner, Polymertal, to create a lightweight metal plastic composite. This project is supported by Space Florida and the Israel Innovation Authority.

Their innovative lightweight hybrid metal material has various applications not only for space, but also on earth for high temperature seals to engine manifolds for high performance cars and vehicles to EMI shielding for helmets and other equipment.



Hybrid Engine Manifold created by Polymertal

Bill Easter, CEO and founder of Semplastics and X-MAT® was invited to a progress meeting held by Space Florida along with Israel Shamay, the Executive Director of Americas Operations from the Israel Innovation Authority. The great developments that X-MAT® and Polymertal have made at this stage in the project were a topic of the discussion.

“Advancements to make materials lighter and stronger are extremely valuable to a wide range of industries. Our collaboration with Polymertal has been very successful and we are grateful for the opportunity to work on this ground-breaking project”, said Bill Easter.

Space Florida President, Frank Dibello, added, “Space Florida is pleased to see the continued success of Semplastics, Inc., and Polymertal. These collaborations generated from the Florida-Israel Innovation Partnership help strengthen both Israel and Florida as global leaders in aerospace and aviation technologies.”



(Left to right) Dr. Candice Hovell, Logan Hester, Lee (SpacePharma), Dr. Siobhan Malany (Micro-gRx), Mr. Israel Shamay (Israel Innovation Authority), Frank DiBello (Space Florida), Sue Easter, Bill Easter (Semplastics), Dr. Arthur Paoella, Tony Gannon, Bernie McShea (Space Florida)

A Phase 2 grant from Space Florida and the Israel Innovation Authority would allow X-MAT® and Polymertal to extend research and further development on their materials system.

About X-MAT®

X-MAT®, the Advanced Materials Division of Semplastics, launched in 2013. X-MAT® developed a revolutionary high performance material that combines some of the best properties of metals (electrical conductivity), engineering plastics (lightweight) and ceramics (high operating temperature). X-MAT® has had several partnerships including work with NASA, Space Florida and the Department of Energy. X-MAT®'s game-changing material has various current applications including fireproof roof tiles, lightweight space mirrors, battery electrodes and 3D printing ceramics. With X-MAT®, the possibilities are endless. X-MAT® technology can be custom-engineered to fit many specifications and has unlimited potential market applications. To learn more about X-MAT® capabilities and future projects, visit their website at <https://www.x-materials.com> or call (407)353-6885.

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