



Do you have business or industry news of interest to the minerals, metals, and materials community? Submit your announcement or press release to Kaitlin Calva, JOM Magazine Managing Editor, at kcalva@tms.org for consideration.

In Case You Missed It: **Business News from the Field**

Lockheed Martin Buys Aerospace Manufacturer

Bethesda, Maryland, USA: Lockheed Martin Corporation agreed to acquire Aerojet Rocketdyne Holdings Inc. for an all-cash transaction valued at \$4.4 billion. Aerojet Rocketdyne operates 14 rocket development facilities that span the nation. Its facility in Redmond, Washington, has built thruster systems for virtually every interplanetary mission since the Apollo era. Lockheed Martin's space division has its hand in wide-ranging programs ranging from the Orion and Mars missions to its work on national security satellites. The transaction is expected to close in the second half of 2021.

Invitalia and ArcelorMittal Reach Deal

Milan, Italy: Invitalia, an Italian state-owned company, reached a deal with ArcelorMittal S.A. to run the ILVA steel plant in Taranto. Invitalia will pay initially €400 million for joint control of ArcelorMittal vehicle AM Investco. In a second step, Invitalia will invest up to €680 million by May 2022 to raise its stake to 60%. A new industrial plan between the partners envisions reaching 8 million metric tons of production by 2025 and investment in process technology.

Rio Tinto and Nippon Steel Partner to Lower Emissions

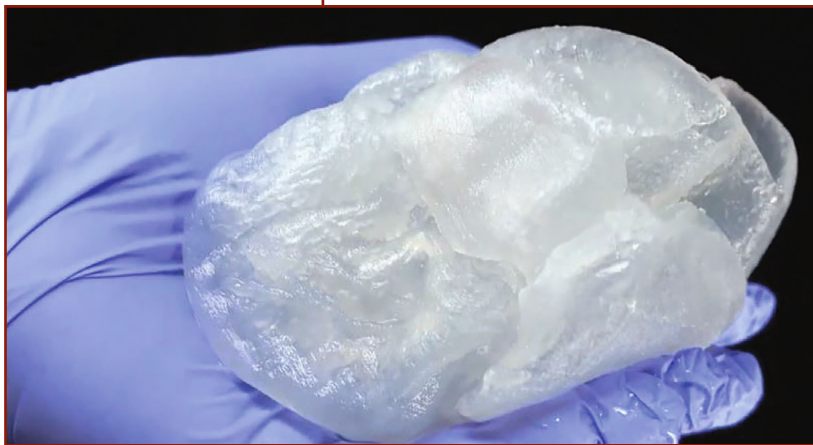
Melbourne, Australia: Rio Tinto, a global mining company, and Nippon Steel Corporation, Japan's largest steelmaker, inked an agreement to jointly explore, develop, and demonstrate technologies to transition to low-carbon emissions within the steel value chain. The memorandum of understanding will allow them to pursue new technologies over the long term, starting with carbon dioxide reduction scenarios with goals set for 2030 and 2050. The companies plan to explore technologies for decarbonization of the entire steel value chain.

VanGold Acquires El Cubo Mine

Vancouver, Canada: VanGold Mining Corporation signed an agreement with Endeavor Silver Corporation to acquire the El Cubo Complex, a mine and mill located close to its El Pinguico silver-gold project near the city of Guanajuato, Mexico. The El Cubo Complex includes two operating underground silver-gold mines with a rated capacity of 1,500 tonnes per day and a flotation plant. VanGold intends to restart the mill at approximately 750 tonnes per day using mineralized material from its surface and underground stockpiles at its El Pinguico project as a significant portion of its estimated throughput for the first 36 months of operation.

GM's 3D Print Shop Delivers Value

Detroit, Michigan, USA: General Motors Company increased its use of 3D printing across more production vehicles. A new Additive Industrialization Center located at GM's Global Technical Center in Warren, Michigan, will use 3D printing to make more production and car parts that will save the automaker money and speed up vehicle development. GM recently pivoted to using 3D printing on production vehicles and for tools in manufacturing plants, after using it largely for vehicle prototypes for 30 years.



Pittsburgh, Pennsylvania, USA: American researchers created the first full-size human heart model using 3D printing technology. The model was made with a specially developed 3D printer that uses biomaterials to produce a structure and tissues similar to a real human heart. The model heart can be a useful tool to train medical professionals in heart-related operations. It could also be used as a basis for new research on ways to use 3D printing technology to produce fully operating hearts to replace in people. (Image courtesy Carnegie Mellon University/ACS Publications via YouTube.)