



» May 2016

RTMP Received MPPA Safety Awards



At Rio Tinto Metal Powders safety is one of our top priorities. On March 22-23, 2016 at the Metal Powder Producers Association Winter Business Meeting, Vania Grandi, RTMP General Manager Metallics, was very proud to accept the 2015 MPPA Safety Award on behalf of the company. This award recognizes RTMP's special efforts and accomplishments as a large company winner in the 2015 safety awards program. In addition to this award, surrounded by other powder industry peers, RTMP received the 2015 MPPA Safety Award for achieving one year without a lost time accident at their facilities. The safety recognition program is intended to promote safe work environments among MPPA members. The main goals of the program are to establish MPPA safety statistics to enable benchmarking versus other industries, to recognize the best safety performance of a large and small company and to recognize individual facilities that complete one year without a lost time accident. MPPA recognizes companies that have participated in the MPPA safety program and achieved 'No Lost Time Awards' for 5, 10, 15, etc. consecutive years. Special thanks were extended to all RTMP's employees for maintaining their focus on SAFETY as a top priority!



ISO 9001

TS 16949

Rio Tinto Metal Powders

Sorel-Tracy (Quebec) Canada

www.gmp-powders.com / info.gmp@riotinto.com

Soeren Klatt Named Senior Advisor – Strategy, Dev. & Business Evaluation



Soeren Klatt has joined Rio Tinto Fer et Titane (RTMP parent company) as Senior Advisor – Strategy, Development & Business Evaluation to the Sales and Marketing Team. In his role, Soeren collaborates with the Sales Force, Sales Administration, Operations and Finance Teams, providing strategic marketing and business development advice in support of RTFT's commercial strategies for its metallic products. Soeren holds a degree in Industrial Engineering from the Technical University of Hamburg and an MBA from McGill University. He joins us from Iron Ore Company of Canada, where he worked in a similar role leading cost reduction and productivity improvement projects over the last 3 years. Soeren has extensive experience conducting business case analyses and in creating financial models. Do not hesitate to contact Soeren at: soeren.klatt@riotinto.com

PMIA PM-16 Conference & Exhibition in Pune, India



Thanks for having visited us last Feb. 18th to 20th at our booth during the PM-16 event which was held at the Hyatt Regency, Pune India. Prakash Khole,

RTMP Technical Support Manager in India presented a paper on the "Characterization of Iron Powder Mixes Prepared with Compressible Iron Powder" by *Maryam Moravej, Ian Bailon-Poujol, Chantal Labrecque and Prakash Khole*. For more information, do not hesitate to contact one of the listed above or Prakash directly at prakash.khole@riotinto.com.



» May 2016

What's Trending Now?

2016 Technology Trends and Developments

The global economic outlook for 2016 calls for a low to moderate growth environment, particularly in emerging economies which will reflect into a challenging business outlook for the powder metallurgy industry. In the US, higher borrowing cost could contribute to slowing new vehicle sales. This could be offset by low gasoline prices which are expected to remain at such levels throughout most of the year. This could favour the sale of larger, less fuel efficient vehicles such as SUV and light trucks, a generally positive situation for North American powdered metal parts producers. In Europe, the most important car markets, including Germany and the UK, are seeing positive growth with sale volumes surpassing pre-crisis levels.

The current macroeconomic environment, with low commodity prices in particular, is expected to promote cost reductions initiatives throughout the value chain. Thus, parts producers should tend toward reducing secondary manufacturing operations and diminishing scrap generation. This will favour increased demand for powder products capable of supporting net shape manufacturing with as few production steps as possible.

In response to those needs, Rio Tinto Metal Powders is currently working on several development projects aimed at narrowing dimensional change variation, increasing die lubrication performance and maintaining stable press operation. Some of these characteristics, such as a more consistent die-fill and increased green strength, are being addressed by enhancements in binder-treated powders and further advances in lubrication technology. Another current project involves the development of machining enhancers for sintered parts and also includes green machining technology development.



Important Future Trends in PM

Additive manufacturing has grown significantly over the past several years and we believe it will continue to do so, albeit in niche markets only. Nevertheless, the company has begun to collaborate with leading academic institutions in the field of Additive Manufacturing, to ascertain the market potential and develop a fundamental understanding of the technical requirements of Fe-based powders for this application.

Currently the largest consumer of powdered steels, the auto industry will most likely see disruptive changes to its product portfolio in the next 10 to 15 years. Electric and hybrid cars – battery or hydrogen-powered – will continue to grow their market share. Such a shift in consumer demand will be sustained by a stronger engagement to reduce carbon emissions following the Paris UN conference. Conventional parts used in internal combustion engines and transmissions will face competition from electric power train components, forcing the powder metallurgy industry to seek alternative markets or end-uses for their products. We encourage our customers to work with us to understand the challenges and opportunities that the electrification of automotive power trains presents. *Vincent Paris, RTMP Research Engineer, Products Development*

PowderMet 2016 in Boston, MA USA – June 5-8, 2016



The annual MPIF International Conference on Powder Metallurgy & Particulate Materials will take place between June 5th to 8th in Boston, USA at the Sheraton Boston and once again, RTMP will actively participate. We look forward to your visit at our **booth # 212**.

Rio Tinto Metal Powders
**A Committed Long Term Global
Business & Technical Partner**

Rio Tinto Metal Powders

Sorel-Tracy (Quebec) Canada

www.gmp-powders.com / info.gmp@riotinto.com