

TECHNICAL SEMINAR FOR EXTRUDERS

26 June 2020



ALUMINIUM
ASSOCIATION



RUSAL

Program / Agenda

- 11:00–11:15** Opening remarks, Rusal sales strategy and organization
Roman Andryushin
- 11:15–10:55** Rusal Extrusion Billet and Maxiflow
Hamish Fernée
- 11:55–12:10** Break or Questions
- 12:10–12:50** Fundamentals of Billet and Extrusion Metallurgy
Laurent Cottingnies
- 12:50–13:00** Break or Questions
- 13:00–13:40** Extrusion Defects – How to solve them
Ram Ramanan
- 13:40–13:50** Break or Questions
- 13:50–14:00** Wrap Up
George English, Artem Tatarunis



SPEAKERS





Rusal Extrusion Billet and Maxiflow

Hamish Fernée



Technical Manager

Hamish Fernée is employed as the Technical Manager for Rusal Marketing in Singapore. He has worked in the Aluminium Industry for more than 20 years in Australia, Europe and Asia.

He started his career with Alcoa Rolled Products in Australia where he started as a graduate metallurgist before moving to Europe and spending two years working for Norsk Hydro. He returned to Alcoa in Australia in 2003 as a Senior Metallurgist before being promoted into various production management roles.

After a further eight years with Alcoa he took up a role with Rio Tinto Alcan at their Tomago Aluminium smelter in Australia as the Customer Support Leader where he was responsible for providing technical support to billet, slab and commodity customer in addition to leading process improvement projects within the Casthouse.

After 6 years working with Rio Tinto he was recruited to Rusal in June 2016.

He holds a PhD in Metallurgical Engineering from the University of Queensland in Australia.

MaxiFlow alloys represent a new line of high-speed 6000 series extrusion alloys developed by RUSAL



In this presentation:

We will look at the benefits of Maxiflow alloys, present their technical properties, and will compare them with the current range of 6000 series alloys

We will share the positive results of tests carried out throughout the world

We will discuss the possibility of reducing costs, which can be achieved by increasing the speed of extrusion pressing





Fundamentals of Billet and Extrusion Metallurgy

Laurent Cottignies



Technical Customer Support Manager

Laurent Cottignies presently works for Rusal as the Technical Customer Support Manager in the sales team based in Zug, Switzerland.

He joined Rusal in 2019 bringing more than 25 years of technical experience in the aluminium industry. His previous position was Technical Director for Rio Tinto Aluminium, supporting sales and marketing initiatives in the EMEA region based in Paris, France. Prior to moving to Paris, he had held various technical roles within Pechiney, then Alcan and Rio Tinto, ranging from alloy development for aerospace, marine and automotive markets to technical support to casthouses.

His field of expertise covers aluminium alloy design, casting technologies, processing of casthouse products including extrusion and heat treatment. He holds several patents in the field of aluminium alloys and is the author of several publications in peer reviewed international journals.

Laurent Cottignies graduated from Ecole Centrale de Paris and holds a Master of Science from McMaster University, Hamilton, Canada, and a PhD in Materials Science from Institut National Polytechnique de Grenoble.

In this presentation:

Identification of critical stages of extrusion pressing as a key factor in quality control



Possibilities of using high strength alloys to increase productivity



Developing the best solution for you





Extrusion Defects - How to solve them

Ram Ramanan



Senior Technical Consultant

Ram Ramanan is considered one of the foremost experts in the aluminum billet and extrusion industry world-wide. Ram's career spans more than 40 years at Alcan and the last 4 years as a consultant for two of the world's leading international aluminum smelters.

His career at Alcan gave him tremendous experience across metallurgy, technical sales and marketing. His career began at Alcan as a casting metallurgist in Kitimat Canada, later working with foundry and billet at the Beauharnois and Shawinigan smelters. He then took his expertise to the Sales and Marketing Department in Alcan in 1986 when he joined Ingot Sales as the Technical Service Manager for Global billet. Ram became the Director of Technical services in 1991 from Alcan's Sales office in Cleveland, Ohio USA. He has co-authored several patents.

Throughout his career, Ram directed technical and metallurgical assistance to customers thereby adding value to the sales. He served as technical liaison between the customers and the smelters who manufacture the value added products.

Ram retired from Rio Tinto Alcan after 43 years in 2013. Later consulting for Vedanta, a leading primary aluminum smelter in India.

In 2019, Ram left Vedanta to join Rusal America Corp in the capacity of the Senior Technical Consultant. In this role, he continues to build liaison between customers and Rusal while at the same time working with the smelters to achieve world class billet quality.

In this presentation:

The most common pressing defects encountered by our customers and the causes of such defects



Using effective methods of analysis such as optical and electron microscopy



Our experience in the prompt identification of defect's origins and recommendations for their elimination





George English

Wrap Up

Customer Support and Product Development Director

George English presently works for the UC Rusal Sales team in Zug (Switzerland) as the Customer Support and Product Development Director.

He has a long career in the Aluminium industry going back some twenty years, always working within the casthouse technical side of the business. Before joining UC Rusal, he was employed with Pyrotek as the Technical Customer Support Manager, working from the UK and supporting the TAMI region. He joined Pyrotek after successfully completing his assignment with Ma'aden Aluminium at Ras Al Khair where he was employed as the Casthouse, Recycling and CRU Operations Director after promotion from the Technical Manager in July 2015. Having worked for almost 10 years the Middle East with Pyrotek, Ma'aden and EGA (Emal) he decided to head back towards Europe to strengthen family ties and enjoy the cooler climate.

George began his career with Rio Tinto Alcan, Lynemouth, before moving to the Middle East 2010.

A Chemistry graduate from the University of Teesside and a holder of a bachelor degree from Northumbria University in Applied Physics. George has studied in a multitude of technical fields strengthening his overall competencies in the field of aluminum casthouse production such as wire rod, HP, primary, PFA, with a particular interest and focus on Direct Chill Casting of extrusion billets and flat rolled products.



Artem Tatarunis

Wrap Up

Global Product Leader

Artem holds the positions of Global Product Leader (GPL) for Billet as well as Head of Sales for Billet and Wire Rod in EMEA region. As Global Product Leader, he is responsible for the development of the global product strategy and key initiatives, justification of new capacity and investment projects, relationship with Global Key Accounts. Another key function of this position is to drive implementation of the latest market requirements for billet quality into Rusal technical capabilities.

Artem has joined Rusal Sales and marketing team in 2005 after graduation with a Masters degree in Financial Management from the Russian Academy for Economics named after Plekhanov in Moscow. Starting from operational positions, he was promoted to Sales Manager in 2009 initially being responsible for the sales of primary ingot to Asian and African customers being based in Rusal office in Zug, Switzerland. In 2011, he was promoted to Sales Manager Billet and Remelt ingot Sale Asia and developed this new market for Rusal from scratch to what is now one of the important regional markets for Rusal billet. It was in 2016 that Artem moved to Singapore as part of the team which set up this new regional office for Rusal. By that time, his was promoted to Head of Sales Billet, Remelt Ingot, Galvalume Alloy in Asia.

In 2017, Artem was assigned to lead and coordinate the development of Rusal global sales strategy for extrusion billet in the position of Global Product Leader. He also has expanded his geographical focus and became Head of Billet and Wire Rod Sales EMEA in 2018. Now he is working in Zug (Switzerland).

**You can
direct your
questions to
speakers via
the link:**

[http://www.aluminas.ru/events/
technical_workshop_to_support
_customers_of_uc_rusal_on_the
_market_extrusion/](http://www.aluminas.ru/events/technical_workshop_to_support_customers_of_uc_rusal_on_the_market_extrusion/)

We are looking forward to cooperating with you!

Contact us:



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