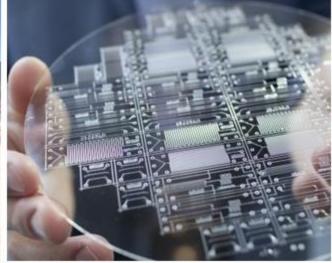
## **SUMMARY SLIDE DECK**

# FLUORINE FORUM 2023

Pullman Cannes Mandelieu 16-18 October 2023







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#### FIELD TRIP: MONGOLCZECHMETALL THURSDAY 17 OCTOBER 2024

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#### **CONFIRMED SPEAKERS**

#### Benchmark Breakfast Briefing: Fluorine in the Battery and EV age

Jessica Roberts, Head of Forecasting, Benchmark Mineral Intelligence, UK

#### Fluorspar supply & demand overview

Maximilian Court, Product Director - Battery Chemicals, Benchmark Mineral Intelligence, UK

#### Fluorspar & HF processing: trends & cost curves

Project Blue, South Africa

#### Mongolian fluorite deposits and their geochemical characteristics

Dr Tumenbayar Baatar, Director, SFP, & Banzragch Janchiv, Geologist, Mongolia

#### China fluorspar supply review

Xinhua Liao, President, Fujian Haojingda Industry Co., Ltd, China

#### Pakistan's fluorspar production progress: first acidspar plant development Shahid Hamid Jafri, CEO, Perfect Associates, Pakistan

#### Lost Sheep Fluorspar Project, Delta, Utah: Progress & Outlook James Walker, CEO, Ares Strategic Mining, Canada

#### **Tivan Ltd: Introducing the Speewah Fluorite Project**

Brendon Nicol, Process Manager, Tivan Ltd, Australia

## Hydrofluoric Acid: Accelerating the e-mobility journey – Asian Supply & Demand outlook Samantha Wietlisbach, Director Minerals Research, S&P Global, Switzerland

Challenges & opportunities faced by Western fluorspar miners from renewable energy Peter Robinson, Managing Direct, Fluorspar Ventures, UK

## Production of AIF<sub>3</sub> from fluorosilicic acid by neutralisation with hydrated Al<sub>2</sub>O<sub>3</sub> Dr Alexey Morozkov, JSC "NIUIF", PhosAgro, Russia

#### Steel market demand & outlook

Project Blue, UK

## The making of fluorine-containing materials for OPTICALization: starting from fluorspar Dr Dexi Weng et al, Managing Director, Dexyan Global Poly Research Institute, USA

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Thyssenkrupp Materials Trading GmbH

Traxys Beijing
Traxys Europe S.A

Traxys North America LLC United Company Rusal Plc Vergenoeg Mining Company

Wayo -Fluorite LLC

Thanks for the excellent and well organised Fluorine Forum 2023 in Cannes. Great presentations and exchange of information with other delegates from the fluorspar industry was extremely valuable. We also had many opportunities to introduce our fluorspar company. It was our first IMFORMED event, but certainly not the last. We look forward to the next Fluorine Forum in 2024 in Ulaanbaatar! Hasan Firat, Export Manager, Keles Mining, Turkey

Congratulations on the great success of the Cannes Fluorspar conference. We are looking forward to seeing you in Mongolia. Cassie Yan, Sales Manager, Do-Fluoride New Materials Co. Ltd, China

The Koura team had a great time in Mandelieu-La-Napoule meeting with other producers and consumers of fluorine. Massive thanks to IMFORMED; yet another fantastic event!

Kerry Satterthwaite, Director Business Intelligence, Koura, UK

Your record-breaking Fluorine Forum 2023 was a great experience and success. A special thanks once again for all your efforts in making this great event in Cannes a memorial experience.

Carl Taljaard, Group Executive Chairman, Sallies Holdings, South Africa

Thank you very much for organising Fluorine Forum at Cannes. Everything was organised very well. I attended it first time and found to be very useful. It was great opportunity to hear eminent speakers to know about the latest development in the Fluorine sector and networking people gathered across the globe from 31 countries.

Naveen Kumar, Executive Director, Hyspec Chemicals Ltd, India

An outstanding, well-organised conference.

Gabriele Pupo, CEO, Fluorok Ltd, UK

Fantastic venue, great presentations, didn't get much time for the roundtables due to suppliers' meetings! Corwin Miller, Sourcing Manager, Lincoln Electric Co., USA

## Malcolm Crawford 1951 – 2022





#### MONDAY 16 OCTOBER

- 17:00 Registration
- 19:00 Welcome Reception sponsored by



#### **TUESDAY 17 OCTOBER**

07:30 Registration

#### INTRODUCTION | OVERVIEWS: SUPPLY | SHIPPING

- 09:00 Welcome & Introduction
  Ismene Clarke, Director & Mike O'Driscoll, Director, IMFORMED, UK
- 09:30 Fluorspar market overview
  Alison Saxby, Research Director, Project Blue, UK
- 10:00 The state of mineral logistics: shipping market review
  Robert van Muiden, Managing Owner, RoBuLog Rotterdam Bulk
  Logistics, the Netherlands

#### 10:30 COFFEE

#### TUESDAY 17 OCTOBER (continued)

#### CHINA MARKET | MONGOLIA SUPPLY

- 11:30 Fluorochemical industry new development trends in China Lingyun Li, Vice Chairman, Do-Fluoride New Materials Co. Ltd, China
- 12:00 Development of the Delgerkhaan fluorspar deposit, north-east Mongolia
  Hattori Junichi, Chairman, Wayo-Fluorite LLC, Japan
- 12:30 Mongolia's fluorspar sector prospects & objectives Tsevegmed Sandiv, Vice Chairman, Mongolian Association of Fluorite Miners, Mongolia

#### 13:00 LUNCH

#### **NEW SOURCE POTENTIAL:**

#### ITALY | GERMANY | SOUTH AFRICA | AUSTRALIA

- 14:30 Rejuvenating the Silius fluorspar mine, Sardinia, Italy Umberto Gioia, Managing Director, Mineraria Gerrei Srl, Italy
- 15:00 Re-opening the Käfersteige Mine in Pforzheim, Germany
  Simon Bodensteiner, Managing Director, Deutsche Flussspat GmbH,
  Germany
- 15:30 The potential for new fluorspar mines and developments in South Africa
  Allan Daniel Saad, Project Manager & Consulting Geologist, Red Sands Mining & Exploration cc, South Africa
- 16:00 Australia: a new frontier for fluorspar supply from Tasmania Joseph Gutnick, Director, Mazel Resources Pty Ltd, Australia



## **TUESDAY 17 OCTOBER (continued)**

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Roundtable Host
Allan Saad, Director, Red Sands Mining and Exploration cc, South Africa
Robert van Muiden, Managing Owner, RoBuLog – Rotterdam Bulk Logistics, the Netherlands
Ann Song, Managing Director, Luoyang Aurora Minechem Co. Ltd, China
Tsevegmed Sandiv, Vice Chairman, Mongolian Assoc. of Fluorite Miners, Mongolia
Bruno Ameduri, Senior Research Director, CNRS, Institut Charles Gerhardt, France
Peter Robinson, Managing Director, Fluorspar Ventures Ltd, UK

## 17:30 CLOSE OF DAY 1



18:00 Drinks Reception sponsored by







#### WEDNESDAY 18 OCTOBER

#### MARKETS 1: BATTERIES | WELDING

- 09:00 Fluorspar's role in electric vehicles and the energy transition Simon Moores, CEO, & Jessica Roberts, Head of Forecasting, Benchmark Mineral Intelligence, UK
- 09:30 Fluorine: the fundamental element on the path to net zero Samantha Wietlisbach, Director Minerals Research and Analysis, S&P Global Commodity Insights, Switzerland
- 10:00 Fluorspar use in the welding market
  Corwin Miller, Sourcing Manager, Lincoln Electric Co., USA

#### 10:30 COFFEE

#### MARKETS 2: FLUOROPOLYMERS

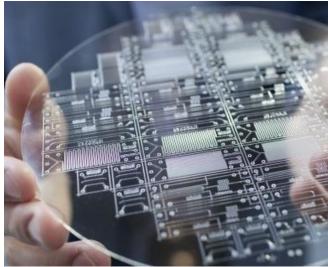
- 11:30 The EU PFAS restriction proposal & its impact on the EU fluoropolymers market
  Nicolas Robin, Director Fluoropolymers Group, Plastics Europe, Belgium
- 12:00 Fluorochemicals key ingredients in OPTICALization of superbig data world Dr Dexi Weng, Managing Director, Dexyan Global Poly Research Institute, USA
- 12:30 The overall situation of poly- or perfluoroalkyl substances (PFASs) and recycling of fluoropolymers
  Bruno Ameduri, Senior Research Director, CNRS, Institut Charles
  Gerhardt, France
- 13:00 Revolutionising fluorochemical production: developing an HFfree fluorination process Gabriele Pupo, CEO, Fluorok, UK

#### 13:30 LUNCH & CLOSE OF CONFERENCE

## Fluorspar market overview

## Setting the Scene | Points of Interest & Discussion









## **Supply highlights**

#### CANADA

Canada Fluorspar new ownership?; resumption end-2023/24?

#### **USA**

Ares Strategic Mining Lost Sheep Fluorspar Project, Delta, UT; 50-180,000 tpa lump metspar plant for steel, ceramics, glass; Oct. 2023 approval to complete plant construction & commissioning; purchase of flotation plant to be shipped to site.

#### **GERMANY**

Deutsche Flussspat to restart the Käfersteige mine, Pforzheim. Fluorchemie Group undergoing ownership transition; new Phoenix mine/plant, Gehren, Thuringia in 2024?

#### ITALY

Mineraria Gerrei to restart Silius mine, Sardinia; 70,000 tpa acidspar, on stream end-2024

#### SWEDEN

Tertiary Minerals: Swedish Govt. annulled Mining Inspectorate's 2019 decision not to grant Storuman Project exploitation concession; decision to be re-examined.

#### PAKISTAN

Balochistan Prov. Govt.
Mineral Resources
Ltd/Platinum Mining Corp.
JV CaF2 process plant 60250,000 tpa, Hub; sourced
from Loralai 1.6m t deposit

#### MONGOLIA

Wayo-Fluorite restarting
Delgerkhaan mine, Khentii, 2024
Mongolczechmetall commissioned
100-150,000 tpa CaF<sub>2</sub> plant,
Chuluut Tsagaan Del, Tuv

#### **CHINA**

Rising prices, tight supply; mines facing closures, stricter safety & environmental regulations.

#### **JAPAN**

Mexichem Fluor Japan/Sojitz Corp. JV HF plant, Kitakyushu; on stream 2025

#### INDIA

**Navin Fluorine** new 40,000 tpa HF plant, Dahej, Gujarat; on stream 2027.

Indian Govt. cut customs duty on acidspar imports from 5.0% to 2.5%.

#### **AUSTRALIA**

Mazel Resources developing
Moina deposit, Tasmania
ABx Group raised \$1.5m to fund
ALCORE pilot plant, NSW; F
from AI smelter waste to produce
HF + AIF<sub>3</sub>

## Pullman Cannes Mandelieu 16-18 October 2023

## Market highlights

## China acidspar price hikes

Post-National October Holiday

- > Producers raising prices >20%, or temporarily suspending quotes.
- Record breaking EXW RMB3,600-4,100(US\$493-562)/t
- Tight supply owing to government safety & environment inspections, reactions to accidents = closures, production halts

## Japan lifts HF export restrictions to South Korea

March 2023: Japan lifted curbs (imposed 2019) on hydrogen fluoride, fluorinated polyamide and photoresist imported by SK to produce semiconductors and displays.

South Korea announced plans to utilise \$234bn in private investment to create "world's largest semiconductor cluster" in the Seoul metropolitan area, Gyeonggi province.







Dawn Dong, Sales Representative, Luoyang Aurora Minechem Co. Ltd China Roundtable Host Ann Song, Managing Director, Luoyang Aurora Minechem Co. Ltd

"According to our contact with hydrofluoric acid companies, they describe the fluorspar market as crazy...they have never encountered anything like this before."



Shunchang fluorspar flotation plant, Fujian, Haojingda Industrial Co.; 600,000 tpa ore processing capacity

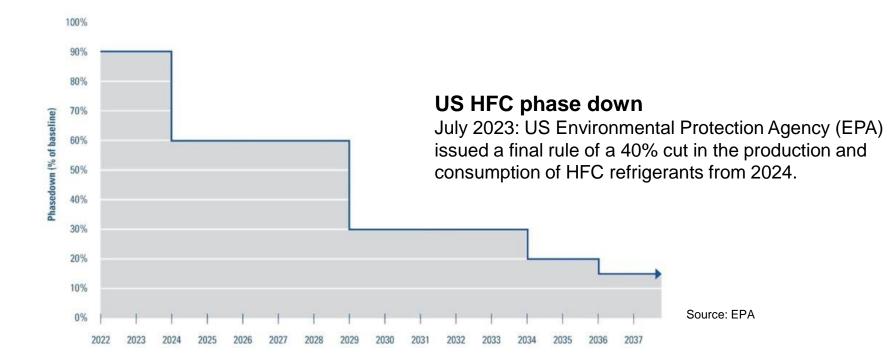
## Market highlights

## **EU F-gas phase out**

5 Oct. 2023: The European Parliament and Council reached a provisional deal on specific bans in the use of HFCs and HFOs and a complete phase out of F-gases by 2050.

- Consumption of HFCs completely phased out by 2050
- Production of HFCs, in terms of production rights granted by the Commission, will be phased out to a minimum (15%) from 2036



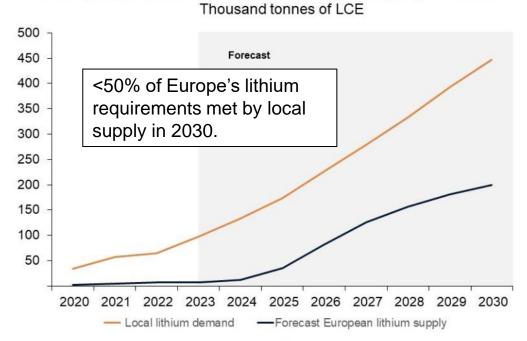


## FLUORINE FORUM 2023 Pullman Cannes Mandelieu

## **Market highlights**

#### Li-ion battery market growth

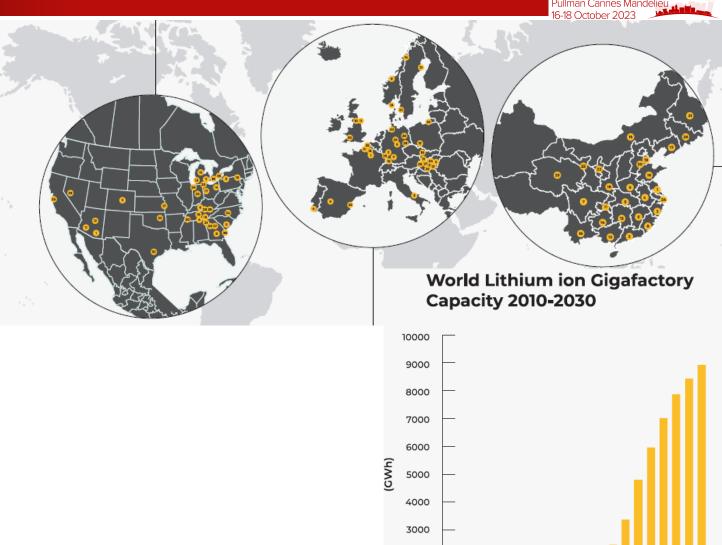
## European lithium supply and demand from proposed mines



Source: Rystad Energy's Battery Solution, October 2023 A Rystad Energy graphic

## LIB electrolyte – new materials?

Lithium bis(fluorosulfonyl)imide (LiFSI) "significantly better" than that of lithium hexafluorophosphate decomposes more readily at high temperatures and is sensitive to water, therefore can be used in high temperature and high voltage environments.



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  - Salt

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InterContinental Dalian, 21-23 October 2024

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The latest trends and developments in China's refractory minerals supply, processing, logistics, and market demand







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#### CONFIRMED SPEAKERS

China's refractories industry: status, key challenges, influencing factors, & demand

Dr Wang Zhanmin, VP Manufacturing, Sinosteel Luonai Materials Technology, China

#### Magnesite developments in Liaoning province

Zhao Liqiang, General Manager, Haicheng Magnesite Group Co. Ltd, China

Review & outlook for China's economy & downstream refractory markets
Dr Adam Gao, Associate Director, Mining Materials, S&P Global, China

Navigating shipping ex-China in 2024 with geopolitics, sanctions & Red Sea crisis

Eddie Boo Koh, Regional General Manager Greater China, Access World, China

Exploring refractory raw material procurement from China: potential & challenges

Devang Chowdhary, Director, Thyme Corp., Germany

#### **Refractories without China?**

Dr Richard Flook, Managing Director, Mosman Resources, Australia

Evolving performance needs for alumina raw materials in China's refractories market

Chris Parr, VP Science & Technology, Imerys, France

**Developments in producing high grade refractory magnesia in China** Prof. Zongqi Guo, Xi'an University of Architecture and Technology, China

Trends & developments in China's refractories market
Marco Olszewsky, President RHI Magnesita China & APAC, China

The changing face of technology and its impact on refractory raw materials Dr Rainer Gaebel, Managing Director, Refratechnik Holding GmbH, Germany

#### China's graphite supply situation

Madam Xia Xiaomin, General Manager, CNBM Heilongjiang Graphite New Materials Co. Ltd, China

Trends in Chinese alumina supply and applications in the refractories market Dr Feng Wang, Director Sales China & Southeast Asia, Almatis, China



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Salt global supply overview & Asian chlor-alkali market

Dr Stefan Schlag, Managing Director, Salt Market Information, Switzerland

The role of salt in the chlor-alkali industry & its outlook

Stephanie König, Head of European Chlor-Alkali, Argus Media Ltd, UK

SEASALT Europe: Challenges & opportunities of a unique industry

Gonzalo Diaz Caicoya, President, SEASALT Europe & General Manager, Bras del Port, Spain

Solar salt works & technology developments on increasing salt yield

Dr Bhoomi Andharia, Senior Scientist, CSIR-CSMCRI, India

Advancements in solar salt industry: a comprehensive exploration of automation Param H Dave, Manager, Tata Chemicals Ltd, India

Status of Pakistan salt supply, markets & future prospects

Ismail Suttar, Chief Executive Officer, HubSalt, Pakistan

The California Supreme Salt project

Vladimir Sedivy, President, Salt Partners Ltd, Switzerland

The potential of sodium-ion batteries & salt requirements

Sean Hoffman, Critical Minerals Research Analyst, Project Blue, South Africa

**Crystallizer pilot study to produce high-purity NaCl salt from desalination brine**Dr Christopher Fellows, Researcher, Saline Water Conversion Corp., Saudi Arabia

Innovation approach to salt plant optimisation

Titan Salt, Netherlands

Vacuum salt production in Bangladesh: Fourth generation technology

Eörs Kondorosy, Managing Director, Evatherm AG, Switzerland

Salt production developments in Kazakhstan

Ioanna Ponomarenko, President, Araltuz JSC, Kazakhstan

The Salt of Diplomacy: EUsalt's collaborative approach to industry advancement Dr Urs Ch. Hofmeier, President, EUsalt & CEO, Schweizer Salinen AG, Switzerland

The use of bittern after salt crystallisation for production of by-products

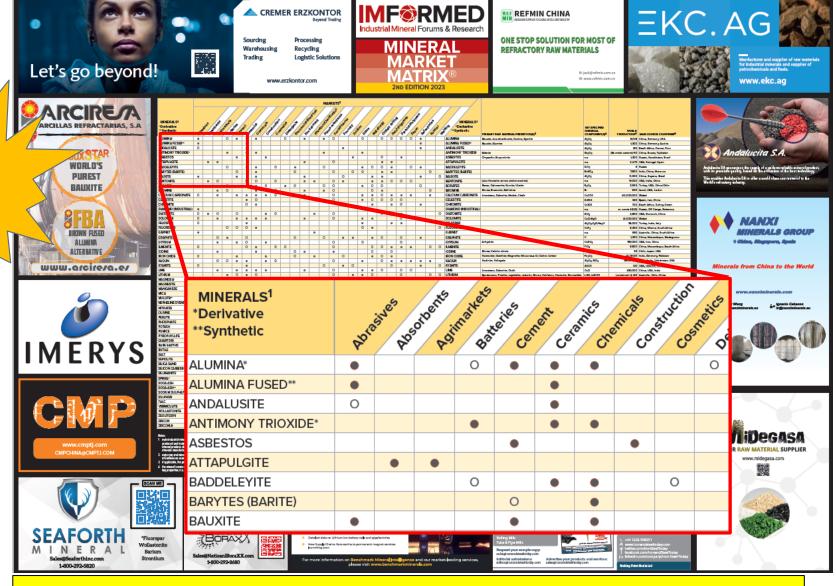
Dr Stephan Kaps, Head of Department, K-UTEC AG Salt Technologies, Germany



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