

OILFIELD MINERALS & MARKETS **FORUM** HOUSTON 2018

Hilton Houston Post Oak, Houston, 6-8 May 2018



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New for 2018! Roundtable Networking Session

After lunch 14.00 Monday 7 May 2018



- take your post-lunch coffee in a relaxed, informal networking and discussion session
- share and gain insightful knowledge among your peers as well as getting to know each other and respective companies' activities.
- themed round tables (as below) and table discussion to be led by Table Host, over 2x 30min periods.



Roundtable Networking Session

After lunch 14.00 Monday 7 May 2018

**PLEASE PRE-ASSIGN YOUR PLACE AT THE TWO TABLES OF YOUR CHOICE
AT THE CONFERENCE REGISTRATION DESK BEFORE 14.00 MONDAY**

Table No.	Theme	Host
1	Mineral Exploration/Evaluation	Ken Santini <i>Managing Director, Santini & Associates Inc.</i>
2	Mineral Testing	Dr. Andrew Scogings <i>Consultant, CSA Global</i>
3	Cost Factors	Carl Tracey <i>Snr. Pricing Analyst, INFORMED</i>
4	Processing	AJ DeCenso <i>President, Preferred Process Solutions LLC</i>
5	Logistics	Richard Dodd <i>President, RDC Logistics, USA</i>
6	Barite Market	John Newcaster <i>Director Southwest, The Cumberland Group Inc.</i>
7	Proppants Market	Pickard Trepess <i>Managing Director, FRAC PT FZE</i>



Oilfield Minerals'



Rockin' Rodeo Reception

5.00-7.00pm Monday 7 May 2018

Bucking Bronco



Country & Western Band

Drinks Reception sponsored by



Relax, let your hair down, enjoy a Texan Sundowner

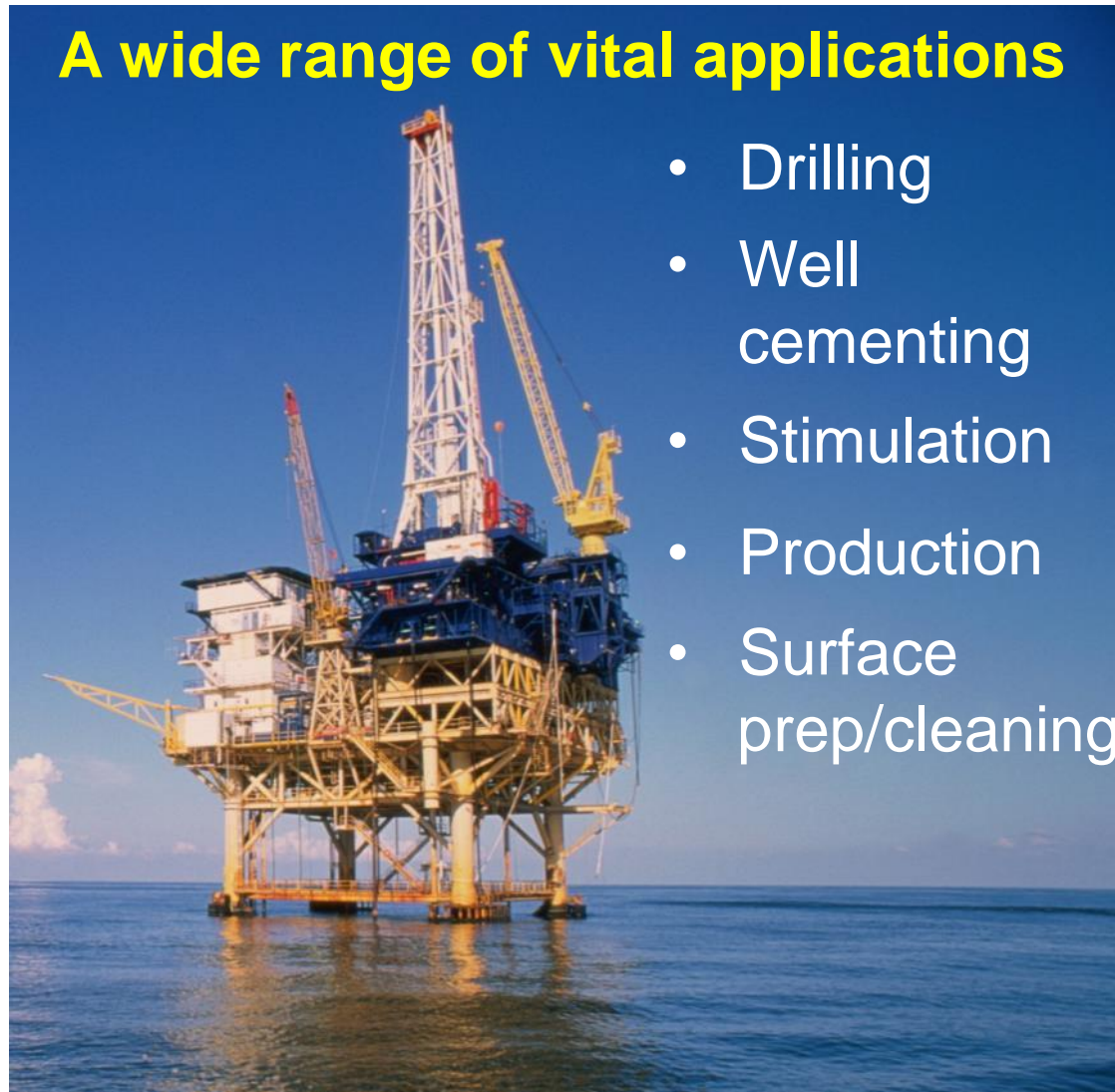


Industrial minerals & the oilfield market



A wide range of vital applications

- Drilling
- Well cementing
- Stimulation
- Production
- Surface prep/cleaning



Industrial minerals & the oilfield market

A wide range of minerals used

Attapulgite
 Barite
 Bauxite
 Bentonite
 Borates
 Calcium carbonate
 Calcium chloride
 Diatomite
 Garnet
 Gilsonite
 Graphite
 Gypsum
 Haematite
 Hectorite
 Ilmenite
 Iron oxide
 Kaolin



Lignite
 Lime
 Magnesia
 Magnesium silicate
 Magnesium chloride
 Mica
 Perlite
 Potassium chloride
 Salt
 Sepiolite
 Silica sand
 Soda ash
 Sodium silicate
 Vermiculite
 Zinc oxide
 Zirconia



Industrial minerals & the oilfield market

For a wide range of applications

Function	Mineral
Weighting agents high SG; help offset pressure; control liquid flow into wellbore from formation; keep the hole open	barite, haematite, calcium carbonate
Bridging agents plug pore spaces at wellbore, restricting invasion of solids and fluids into the formation	calcium carbonate, salt
Viscosifiers Carry cuttings to surface; build a cake against permeable formations; lubricates drill string.	sodium bentonite, treated calcium bentonite for freshwater muds; attapulgite and sepiolite for saltwater muds; organophillic clays for oil muds
Stabilisers Prevents dissolution of formation	Gilsonite, salt, gypsum



Industrial minerals & the oilfield market

Function	Mineral
Lost circulation materials used to plug or seal pores and cracks in the formation	Gilsonite, mica, diatomite, expanded perlite and vermiculite (bentonites, organophilic clays)
Cross-linker Hydrated polymers or gels (guar gum) are cross linked by borate ions to provide increased viscosity. Benefits include, good proppant transport, stable fluid rheology at high temperatures, low fluid loss, and good clean up properties.	sodium borates
Lubricants Lubrication of drill bit and drill pipe	graphite, bentonite
Proppants Hold open fractures to enable oil and gas flow (conductivity)	silica sand, calcined bauxite, calcined kaolin, magnesium silicate



Programme – Monday Morning

OVERVIEWS

- 08.45 **Introduction**
Ismene Clarke, Director & Mike O'Driscoll, Director, INFORMED, UK
- 09.00 **Outlook for oil and gas supply and demand**
Uday Turaga, CEO, ADI Analytics Inc., USA
- 09.30 **Oilfield mineral demand and outlook in drilling fluids**
Veronica Brown, VP of Supply Chain, QMax Solutions Inc., USA

10.00 COFFEE

PROPPANTS

- 11.00 **North American proppants market trends and developments**
Joel Schneyer, Managing Director, Minerals Capital & Advisory Practice, Capstone Headwaters, USA
- 11.30 **In-basin sands: changing the game for proppants and industrial applications**
Dave Frattaroli, Executive VP, Higher Roller Sand Inc., USA
- 12.00 **Asia-Pacific proppant scene under the spotlight**
Murray Lines, Director, Stratum Resources, Australia

12.30 LUNCH

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Programme – Monday Afternoon

14.00 ROUNDTABLE NETWORKING SESSION

Take your after-lunch coffee in a relaxed, informal networking and discussion session, share and gain insightful knowledge among your peers.

Hosted roundtables with themes | Flexibility to change tables.

At Registration Desk please pre-assign yourself to a table before 14.00

Table No.	Theme	Host
1	Mineral Exploration/ Evaluation	Ken Santini, <i>Managing Director, Santini & Associates Inc.</i>
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Programme – Monday Afternoon

LOGISTICS ICEMENT

- 15.15 **Dynamically optimizing a barite distribution network**
John Newcaster, Director Southwest, The Cumberland Group Inc., USA
- 15.45 **Logistic challenges: rates rise as demand and regulatory constraints bite**
Richard Dodd, President, RDC Logistics, USA
- 16.15 **Oilfield well cements: raw material demand**
Claudio Manissero, President, ChemCognition LLC, USA

16.45 CLOSE OF DAY 1



ROCKIN' RODEO RECEPTION



- 17:00 - BALLROOM C -
- BUCKIN' BRONCO -
- COUNTRY & WESTERN BAND -

*Drinks Reception
sponsored by*



Programme – Tuesday Morning

BARITE PROCESSING & TESTING

- 08.30 **Separation technology for oilfield minerals: solutions for testing and mobility**
Steve Gray, Consultant, ST Equipment & Technology LLC, USA
- 09.00 **A revolutionary new concept in oilfield mineral milling: Mobility and Modularity**
Jean-François Maréchal, Managing Director, Poittemill, France
- 09.30 **Drilling grade barite density: Le Chatelier vs Pycnometer**
Andrew Scogings, Consultant, CSA Global, Australia

10.00 COFFEE

BARITE

- 11.00 **Overview and outlook for the barite supply market**
Tammy Oglesby, Inventory & Logistics Specialist, Excalibar Minerals LLC, USA, on behalf of The Barytes Association
- 11.30 **Chinese barite supply, and the recent impact of environmental controls**
Rita Hu, General Manager, Guizhou Saboman Imp. & Exp. Co. Ltd, China
- 12.00 **Developing a large, high-grade barite deposit in Canada near a deep-sea port**
Lawrence Roulston, Director, Mountain Boy Minerals, Canada
- 12.30 **Development of the Frances Creek, BC, barite deposit**
Brent Willis, Chief Operations Officer, Voyageur Minerals Ltd, Canada

13.00 LUNCH & CLOSE OF CONFERENCE





ADI Analytics Inc.
Ado Mining
AES Drilling Fluids
Anglo Pacific Minerals
Baker Hughes
Baramin
Baribright
Barit Maden Turk A.S.
Barium Inc
BASO Global
Brichem Corp
Broychim
Capstone Headwaters
ChemCognition LLC
Chemical Products Corp
Cimbar
Constantine Metal Resources
Consultant
Corpomin
CPC Sojitz
CSA Global
Ecutech
Emprada Mines & Minerals LLC
Excalibar Minerals LLC
FRAC PT FZE
Gimpex

Guangx Xiangzhou Hengtai Minerals
Guizhou Saboman Imp & Exp.Co. Ltd
Guizhou Tianhong Mining Co. Ltd
Halliburton
High Roller Sand Inc
Hunimex Ltd
IBC Ltd
IMFORMED
Indumin Group SA de CV
Industrial Project Solutions
International Earth Products
Jumbo Bag LLC
M/G Transport Services
Manuchar Inc
Mepco Gulf
MINAR
Minchem International Inc
Minera Lomra Negra
Mountain Boy Minerals Ltd
Nanning Ore Friendship Co. Ltd
Netzsch Premier Technologies LLC
Neuman & Esser
Norvic Shipping USA Inc
NOV Wellbore Technologies
Omya Inc

Omya International AG
Omya Madencilik A.S
Pacific Chartering Services Inc
Perfobar
Poitemill
Preferred Process Solutions LLC
Prince Energy LLC
Prodexa de Mexico, S.A. De C.V
Qmax
Raymond Bartlett Snow
RDC Logistics
Rescom Holdings
RheoMinerals
RockFin Minerals
Rua Bulgaria
S.H.Bell Company
Santini & Associates Inc
Schlumberger
SNUMM
ST Equipment & Technology
Stratum Resources
Superior Weighting Products LLC
Texan Stone LLC
The Cumberland Group
Viking Shipping
Voyageur Minerals Ltd



Great opportunity for networking and getting up to date with market trends and news

Juan Luis Prieto, President, Baramin, Mexico

Excellent topics and roundtable networking, registration very easy and quick

Hern Lorraine, Sr Manager/Baroid Technical Solutions, Halliburton, USA

It was a pleasure to be able to talk with many people who understand the barite business – excellent programme and organisation

Brent Willis, Chief Operating Officer, Voyageur Minerals Ltd, Canada

Well organised and stayed on time; staff very polite and professional; great opportunity to meet several people

Mark Czarnecki, VP Sales, M/G Transport Services, USA

Excellent programme, good forum for networking

Ramraj Gorantla, Managing Director, Jumbo Bag LLC, USA

Informative and thought provoking, well run, and good roundtable networking

Gary Daane, Minerals Manager, NOV Wellbore Technologies, USA





Missed attending **Oilfield Minerals & Markets Forum Houston 2018?**

A set of presentations (as PDF) maybe purchased:
Price £500 – please contact:

Ismene Clarke, T: +44 (0)208 224 0425; M: +44
(0)7905 771 494; E: ismene@imformed.com

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Magnesium Minerals & Markets Conference
Grand Elysée Hotel, Hamburg — 17-19 June 2018

**CHINA REFRACTORY & ABRASIVE
MINERALS FORUM 2018** 
Regal International East Asia Hotel, Shanghai, 10-12 September 2018

FLUORINE FORUM 2018 
Hotel Wellington, Madrid
15-17 October 2018

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OILFIELD MINERALS & MARKETS **FORUM** HOUSTON 2019

Hilton Houston Post Oak, Houston, 10-12 June 2019

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MINERAL
MARKET
MATRIX

AT A GLANCE
A-Z GUIDE
WHICH MINERALS
FOR WHICH
MARKETS

MINERAL "Derivative" Synthetic	MARKETS*																				MINERAL "Derivative" Synthetic	MAIN RAW MATERIAL FEEDSTOCK(S)	KEY SPECIFIED CHEMICAL COMPONENT(S)	WORLD PRODUCTION ¹	MAIN SOURCE COUNTRIES ²
	Alumina	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate	Aluminate					
ALUMINA																					ALUMINA	Bauxite	Al ₂ O ₃	6,000	China, USA, Germany
ANDALUSITE																					ANDALUSITE	Stibnite	Al ₂ O ₃	300	South Africa, France, Peru
ANTIMONY TRIOXIDE																					ANTIMONY TRIOXIDE	Chrysothite	SnO ₂	10	China, Russia, Tajikistan
ASBESTOS																					ASBESTOS	Chrysothite	n.a.	20,000	Russia, China, Brazil
ATTAPULGITE																					ATTAPULGITE	Chrysothite	n.a.	2,220	USA, Senegal, Spain
SADDLELITE																					SADDLELITE	Chrysothite	ZrO ₂	9	Russia
BARITE (BART)																					BARITE (BART)	Chrysothite	BaSO ₄	972	China, India, Morocco
BAUXITE																					BAUXITE	Chrysothite	Al ₂ O ₃	10,000	China, Guyana, Greece
BENTONITE																					BENTONITE	Chrysothite	n.a.	17,500	USA, China, India
BORON																					BORON	Chrysothite	B ₂ O ₃	18,000	Turkey, USA, China
BROMINE																					BROMINE	Chrysothite	n.a.	750	Israel, USA, Jordan
CALCIUM CARBONATE																					CALCIUM CARBONATE	Chrysothite	CaCO ₃	10,000,000	Global
CELESTITE																					CELESTITE	Chrysothite	SRIO ₂	250	China, Spain, Mexico
CHROMITE																					CHROMITE	Chrysothite	Cr ₂ O ₃	1,000	South Africa, Turkey, Oman
DIAMOND (INDUSTRIAL)																					DIAMOND (INDUSTRIAL)	Chrysothite	n.a.	100,000	USA, China, Denmark
DIATOMITE																					DIATOMITE	Chrysothite	CaO-MgO	12,000,000	Global
DOLomite																					DOLomite	Chrysothite	Al ₂ O ₃ -K ₂ O-Na ₂ O	23,000	Turkey, Italy, China
FELDSPAR																					FELDSPAR	Chrysothite	CaF ₂	6,250	China, Mexico, Mongolia
FLUORSPAR																					FLUORSPAR	Chrysothite	n.a.	160,000	India, China, Australia
GARNET																					GARNET	Chrysothite	C	700	China, Brazil, India
GRAPHITE																					GRAPHITE	Chrysothite	CaSO ₄	246,000	China, USA, Iran
GYPSEUM																					GYPSEUM	Chrysothite	TiO ₂	6,600	Australia, South Africa, China
ILEMITE																					ILEMITE	Chrysothite	n.a.	52	China, Japan, USA
IODINE																					IODINE	Chrysothite	Fe ₂ O ₃	17,000	India, Pakistan, Spain
BORON OXIDE																					BORON OXIDE	Chrysothite	Al ₂ O ₃ -SiO ₂	44,000	USA, Germany, China
KALIN																					KALIN	Chrysothite	CaO	902	USA, India, Brazil
KYANITE																					KYANITE	Chrysothite	Li ₂ CO ₃	350,000	China, USA, India
LIME																					LIME	Chrysothite	Li ₂ CO ₃ -CO ₂	10,000	Australia, China, Chile
LITHIUM																					LITHIUM	Chrysothite	MgO	25,000	China, Russia, Turkey
MAGNESITE																					MAGNESITE	Chrysothite	Mn ₂ SiO ₄	2,000	China, South Africa, Australia
MANGANESE																					MANGANESE	Chrysothite	Al ₂ O ₃	1,000	USA, China, Brazil
MICA																					MICA	Chrysothite	Al ₂ O ₃ -K ₂ O-Na ₂ O	5,600	Russia, Canada, Norway
WULFENITE																					WULFENITE	Chrysothite	CaCl ₂	550	China
NEPHELINE SYENITE																					NEPHELINE SYENITE	Chrysothite	MgO	8,000	Norway, Japan, Spain
NITRATE																					NITRATE	Chrysothite	n.a.	3,800	China, Greece, Turkey
OLIVINE																					OLIVINE	Chrysothite	P ₂ O ₅	220,000	China, Mexico, USA
PERITE																					PERITE	Chrysothite	K ₂ O	36,000	Canada, Russia, Belarus
PHOSPHATE																					PHOSPHATE	Chrysothite	n.a.	17,000	Turkey, Italy, Saudi Arabia
POTASH																					POTASH	Chrysothite	SiO ₂	1,000	South Korea, Japan, Pakistan
PUMICE																					PUMICE	Chrysothite	HS index	250	USA, China, Norway
PYROPHYLLITE																					PYROPHYLLITE	Chrysothite	HS index	100	China, Australia, USA
QUARTZ																					QUARTZ	Chrysothite	TiO ₂	800	Australia, Sierra Leone, South Africa
RAISE EARTH																					RAISE EARTH	Chrysothite	NaCl	269,000	China, India
RUTILE																					RUTILE	Chrysothite	n.a.	600	Spain, Turkey, USA
SALT																					SALT	Chrysothite	SiO ₂	200,000	China, Italy
SEPOLITE																					SEPOLITE	Chrysothite	SiC	1,000	China, Norway, Japan
SILICA SAND																					SILICA SAND	Chrysothite	Al ₂ O ₃	62	India
SILICON CARBIDE**																					SILICON CARBIDE**	Chrysothite	MgO-Al ₂ O ₃	100,000	China, Germany, USA
SILIMANITE																					SILIMANITE	Chrysothite	Na ₂ CO ₃	14,000	USA, Turkey, China
SPINEL*																					SPINEL*	Chrysothite	Na ₂ CO ₃	37,000	China, Russia, Germany
SODA ASH																					SODA ASH	Chrysothite	Na ₂ SO ₄	8,000	China, Spain, Mexico
SODIUM SULPHATE																					SODIUM SULPHATE	Chrysothite	S	60,000	China, USA, Russia
SULPHUR																					SULPHUR	Chrysothite	n.a.	6,000	China, India, USA
TALC																					TALC	Chrysothite	n.a.	400	South Africa, USA, China
VERMICULITE																					VERMICULITE	Chrysothite	n.a.	1,000	China, India, USA
WOLLASTONITE																					WOLLASTONITE	Chrysothite	n.a.	3,000	China, South Korea, USA
ZECUTITE*																					ZECUTITE*	Chrysothite	ZrO ₂	1,000	Australia, South Africa, China
ZIRCON																					ZIRCON	Chrysothite	ZrO ₂	200	China, USA, Japan
ZIRCONIUM																					ZIRCONIUM	Chrysothite	n.a.	1,000	China, South Korea, USA

- Leading industrial minerals
- Main raw material feedstock
- Key specified chemical component
- World production
- Main source countries
- Leading consuming markets

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