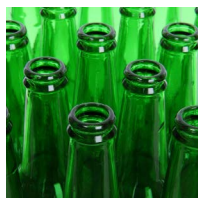
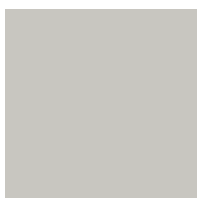
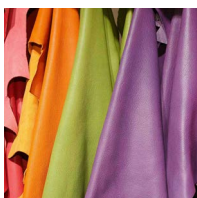
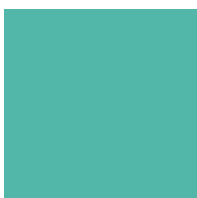




INTERNATIONAL CHROMIUM DEVELOPMENT ASSOCIATION



ACTIVITY REPORT 2018



INTERNATIONAL CHROMIUM DEVELOPMENT ASSOCIATION

Established in 1984, with a membership representing more than 100 companies across the world and the chromium industry value chain, the ICDA is the authoritative voice of the chromium industry.

The ICDA and its members promote the value and sustainability of chromium. Driven by the highest ethical standards and committed to sharing best practices, the ICDA works to unite the industry around the common goal of continuous improvement.

We are guiding by our mission and values:

- Caring for people and the planet
- Developing the market sustainably
- Sharing scientific and technical information
- Serving our members
- Providing benchmark knowledge

SUMMARY

President’s message	3
General assembly	4
Nomination of a new Vice President for the ICDA	4
Health, safety & environment	5
Market research	5
Market development	6
China	6
Communication	7
Chrome chemicals and metal	7
ICDA key events for the industry	8 - 11
ICDA members	12 - 16



*Phoevos Pouroulis, ICDA President
(CEO, Tharisa Minerals)*

“

Our industry has a vital role to play in making our world sustainable.

”

2018 was a year of renewal for the ICDA, in which we saw positive changes throughout the organisation. We accelerated implementation of the strategy defined in 2017, and delivered on key focus areas.

My first task as President was to listen to our members and build our strategy from their input. There was a definite will to enhance our services and build a stronger ICDA.

Our industry has a vital role to play in making our world sustainable. To support this, we mobilized significant resources to research health, safety and environment issues. We are also ensuring that users of chromium-containing products are implementing the best available practices. This underlines our members' ongoing commitment to the highest environmental and ethical standards.

As the online world grows in influence, the ICDA has become more engaged on social media and has developed new online tools and services for members.

We also hosted two successful conferences in Paris (France) and Baotou (China). China remains central to the ICDA, as the major chrome ore consumer, and the largest ferrochrome and stainless steel producer. Our first Chinese New Year dinner in Beijing saw open dialogue with Chinese members, resulting in an HSE workshop in Fengzhen, Inner Mongolia.

I would like to thank all my colleagues on the ICDA's Council and the committee chairpersons for their hard work and dedication. You will find more details on our work throughout this activity report. We look forward to sharing more successes with our members in the next edition.

Phoevos Pouroulis

GENERAL ASSEMBLY

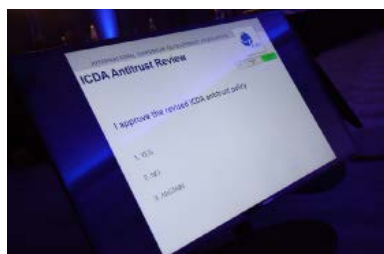
ICDA ordinary members in good standing voted for 7 resolutions during a general assembly held in Paris on April 25, 2018.

The ICDA appointed an expert lawyer to conduct a full review of its existing antitrust policy. The updated proposal was distributed to all the ICDA ordinary members and approved by a majority of votes during the general assembly.

Further articles in the ICDA by-laws have been amended. The ICDA membership has grown over the years, and the service offer has developed, necessitating the creation of by-laws in accordance with the ICDA's current activities.

All the approved resolutions can be consulted by members upon request to the ICDA secretariat.

The ICDA reiterated its commitment to best practice governance and the manner in which its activities are conducted. Anyone dealing with the ICDA must comply with the antitrust rules and code of conduct.



NOMINATION OF A NEW VICE PRESIDENT FOR THE ICDA

September 6, 2018

Yasar Ozdirek

ICDA Vice President & Management Chairperson

(Chrome ore sales and Marketing Director, Yildirim Group)

The ICDA Council has approved the nomination of Yasar Ozdirek (Yildirim Group) to the role of Vice President of the ICDA, succeeding Udo Klein (ERG). Yasar Ozdirek has been an active ICDA council member since 2010, he served in the communication committee and he is currently part of the ICDA management committee, becoming its new chairperson.

We wish him all the best for his new role. Yasar's knowledge of the ICDA and ongoing involvement will be highly valuable.



HEALTH, SAFETY & ENVIRONMENT

Dr. Juha Ylimaunu

Health Safety Environment Chairperson

(General Manager Environment, Outokumpu)

Sound health, safety and environmental performance is seen as a critical success factor for ICDA members. Society increasingly demands information on product safety, covering all stages of their life cycle. The sustainability of our markets will be increasingly related to observance

of the highest health, safety & environment standards.

- European HSE committee meeting in Aachen, Germany, hosted by Elektrowerk Weisweiler – Afarak Group
- China HSE committee meeting in Fengzhen, hosted by Xin Gang Lian
- Southern Africa HSE committee meeting in Rustenburg, South Africa, hosted by Tharisa Minerals
- Launch of a socio-economic assessment in partnership with Roskill, studying the economic benefits of chromium in some of the main producing regions
- Decision to recruit a senior toxicologist and take back the leadership in REACH and regulatory activities
- Review our risk assessments and update our scientific reference database
- Launch the 4th edition of our Life Cycle Assessment for the production of high carbon ferrochrome



MARKET RESEARCH

Greg Taurog

Market Research Chairperson

(Executive: New Business, Tharisa Minerals)

Having consolidated our position as a source of accurate data, we are looking at the specific needs of our membership in terms of in-depth study. A China ferrochromium market study is in preparation for the first half of 2019. We are also looking at diversifying our offer in the

near future in addition to the usual weekly market update, quarterly and annual reports.

- Improve readability and diversity of information in the weekly market updates
- Launch of a detailed market study of the Chinese ferrochromium market
- Presentation of data at various industry conferences



MARKET DEVELOPMENT

Yuji Kubo

Market Development Chairperson

(Head of Division General Manager, NSSC)

Chromium is never used alone, and is an essential ingredient with intrinsic properties providing remarkable resistance to corrosion, extreme temperatures, wear and abrasion, to mention but a few.

Our working group is focusing on chromium's main application, which is in stainless steel but not exclusively. We are reviewing our approach in order to study non-stainless alloys and innovative developments which require chromium for sustainable applications.

- Assessing the recycling rate of all grades of stainless steels through a Yale University partnership - results published in 2019 showed that overall 86% of stainless steel is being recycled
- A KTH Royal Institute of Technology study in Sweden demonstrated that all grades of stainless steel are safe to use for food preparation as per the Council of Europe guidelines for metals and alloys in food contact materials
- Another study in partnership with AgroParisTech, Manchester University and Anios laboratories concluded that stainless steel in a hospital environment is a safe choice
- We worked in partnership with Eurofer to prevent misleading classification of stainless steels using scientific facts
- In partnership with Team Stainless, we are promoting the use of stainless steel for water pipes as successfully demonstrated in Tokyo, which saved water, a precious resource



CHINA

Jonathan Qiu

China Chairperson

(Assistant General Manager, Mintal)

2018 was the kick-off year for the China committee. The group had a busy year, with 3 major events organized for the ICDA in China during the year. China is a driving force for the chromium industry, and the ICDA can only be truly global by developing a strong presence in the country.

- First ICDA Chinese New Year dinner in Beijing, a success with more than 120 attendees
- Best-practice-sharing workshop in Fengzhen, Inner Mongolia – Safe Use of Ferrochromium Slag in Road Construction
- Active support for the organization of Chromium 2018 in Baotou
- Regular meeting with the Chinese industry to provide guidance to the ICDA



COMMUNICATION

Zelda du Preez
Communication Chairperson
(CEO, Rand York Minerals)

Previously the chrome ore committee and renamed as communication in 2018, we are looking at members' needs from a general perspective, either in terms of services or user experiences including the website, social media and efficient communication tools.

- Brand new website for the ICDA, including added functionality and further developments to come soon
- Review of our corporate identity to be consistent with our mission and values
- Promoting partnership with numerous fellow organizations including in China
- First UG2 dinner for the ICDA. As an industry organization representing all forms of chromium it is essential to have UG2 on board
- 3rd edition of the Chrome Personality of the year, award given to Jonathan Qiu (Mintal) for his accomplishment in leading the ICDA China committee.



CHROME CHEMICALS AND METAL

Mike Techow
Chrome Chemicals and Metal Chairperson
(Marketing Manager, Lanxess)

Chemical grades of ore are used in numerous key applications which are often highly strategic, and for which chromium is the best available choice.

Our group is focused on promoting the continuous use of chromium chemicals in a sustainable way, encouraging best practices and providing guidance for responsible production, disposal and uses.

- We have defined our mission as a committee (protecting our industries; environmental and human health compliance ; education around perceptions of our products)
- Extensive industry consultation to craft our strategy and roadmap

Chinese New Year dinner - January 25, 2018 - Beijing, China



Members' meeting 2018 - April 24-26, 2018 - Paris, France



UG2 dinner - September 10, 2018 - Johannesburg, South Africa



Chromium 2018 - November 6-8, 2018 - Baotou, China



ORDINARY MEMBERS

Acerinox S.A. (Spain)

Afarak Group (Finland)

Aktyubinsk CCP / Networld Trading Ltd. (Turkey)

Al Tamman Indsil Ferro Chrome LLC (Oman)

Albchrome (Albania)

AMG Superalloys UK Limited (United Kingdom)

Anglo American Platinum Limited (South Africa) **NEWLY JOINED**

Aperam S.A. (Luxemburg)

Balasore Alloys Ltd. (India)

Befesa Scandust AB (Sweden)

China National Minerals Co., Ltd. (China)

Chongqing Changyuan Group Limited (China) **NEWLY JOINED**

Chongqing Minfeng Chemical Co., Ltd. (China)

CRONIMET Group (Germany)

DCX Chrome - Groupe Delachaux (France)

Dedeman Madencilik Sanayi ve Ticaret AS (Turkey)

Ehui Group Limited (China)

Elementis Chromium (USA)

ELG Haniel Trading GmbH (Germany)

ERG Sales AG (Switzerland)

Eti Elektrometalurji A.S. (Turkey)

Ferro Alloys Corporation Ltd. (FACOR) (India)

Glencore (South Africa)

Hernic Ferrochrome (Pty) Ltd. (South Africa)

Hubei Zhenhua Chemical Co., Ltd. (China)

Indian Metals & Ferro Alloys Ltd. (IMFA) (India)

JFE Material Co., Ltd. (Japan)

Jindal Stainless Limited (India)

Kraomita Malagasy (Madagascar)

Lanxess (Pty) Ltd. (South Africa)

Marmotek Madencilik Sanayi Ve Ticaret A.S. (Turkey)

Masa Chrome (Pty) Ltd. (South Africa)

Merafe Resources Limited (South Africa)

Minerals Technologies (South Africa)

Mintal Group Chrome Industry Science and Technology Co., Ltd. (China)

Misrilall Mines Private Limited (India)

Nippon Chemical Industrial Co., Ltd. (Japan)

Nippon Steel & Sumikin Stainless Steel Corp. (Japan)

Novotroitsk Plant of Chromium Compounds (Russia)

Ore & Metal Company Ltd. (South Africa)

Outokumpu Chrome Oy (Finland)

RFA International LP / ChEMK (Switzerland)

RusChrome GmbH (Germany)

Samancor Chrome (South Africa)

SCHMOLZ + BICKENBACH AG (Europe)

Shanxi WanYang International Trading Co., Ltd. (China)

Sichuan Yinhe Chemical Group Co., Ltd. (China)

Soda Sanayii A.S. - Sisecam Group (Turkey)

Tata Steel Limited (India)

Tharisa Minerals (Pty) Ltd. (South Africa)

Tsingshan Holding Group Company Ltd. (China)

VISA Steel Limited (India)

Vishnu Chemicals Limited (India)

Yieh United Steel Corporation (YUSCO) (Taiwan, China)

Yildirim Group / Eti Krom A.S. (Turkey)

Xin Gang Lian Metallurgy Co., Ltd. (China) **NEWLY JOINED**

Zimasco (Pvt) Ltd. (Zimbabwe) **NEWLY JOINED**

ASSOCIATE MEMBERS

Asia Steel & Metals Ltd. (Hong Kong, China)

Baometal Minerals International Trade Limited (China)

BF International Limited (Japan)

Barplats Mines (Pty) Limited (South Africa) **NEWLY JOINED**

CellMark Metals / Sonaco Trading AB (Sweden)

Centachrome AG (Switzerland)

COFERMIN Chrome GmbH & Co. KG (Germany)

EK-Company (EKC.AG) (Germany) **NEWLY JOINED**

F.W. Hempel Intermétaux S.A. (Switzerland)

Fondel Group - CPH BV (Netherlands)

Glorychem GmbH & Co. KG (Germany) **NEWLY JOINED**

Gunvor Singapore Pte Ltd. (Singapore)

HANWA Co.,Ltd. (Japan)

Inter Alloys, S.L. (Spain)

Jackson Minerals Co., Ltd (China)

Joy Hammer Investment (Shanghai) Co., Ltd (China) **NEWLY JOINED**

Marubeni Tetsugen Co., Ltd. (Japan)

Metal Partner GmbH (Germany)

Mitsubishi Corporation (Japan)

Mitsui & Co. Ltd. (Japan)

Noble Resources Int. pte. Ltd. (Singapore)

North American Minerals Chrome Sales Ltd. (USA)

Ore Alloy Development Corporation Ltd.(China)

Pacific Linkage (China) Limited (China)

Pelagic Resources (Pty) Ltd. (South Africa)

Possehl Erzkontor GmbH Co KG. (Germany)

Prince (USA) **NEWLY JOINED**

PURMETALL GmbH & Co. KG (Germany) **NEWLY JOINED**

Qunxian International Trade Co., Ltd. (China) **NEWLY JOINED**

Rand York Minerals (Pty) Ltd. (South Africa)

“RMK” Ltd. (Russia)

Sojitz Corporation (South Africa)

Southern Development Ltd. (SODEVCO) (UAE /USA)

Sumitomo Corporation (Japan)

TELF AG (Switzerland)

The Department of Mineral Resources (South Africa) **NEWLY JOINED**

Tianjin Maxore International Trade Co. Ltd. (China) **NEWLY JOINED**

Traxys North America LLC (USA)

UPYA Ventures RSA (Pty) Ltd. (South Africa)

UniChrome AG (Switzerland)

Vopelius Chemie AG (Germany)

AFFILIATE MEMBERS

Access World (Switzerland)

Canada Natural Resources Ministry (Canada)

Chongqing Angruiyue Science and Technology. Co., Ltd. (China)

CMMP (France)

Exxaro FerroAlloys (Pty) Ltd. (South Africa)

F.W. Winter Inc. & Co. (USA)

Kat Technology SRL (Italy)

Koppern Maco Services Pvt. Ltd. (India)

LBH Mozambique (Mozambique)

Magotteaux International S.A (Belgium) **NEWLY JOINED**

Metal Line Projects (South Africa) **NEWLY JOINED**

Monteagle Logistics Limited (South Africa) **NEWLY JOINED**

New Sokao (Belgium) **NEWLY JOINED**

Outotec Oyj (Finland)

Savroc Oy (Finland)

SIBELCO (France) **NEWLY JOINED**

SNCZ (France)

Tenova Mining & Minerals (Pty) Ltd. (South Africa)

Uvan Hagfors Teknologi AB (UHT) (Sweden)



© ICDA 2019

43 rue de la Chaussée d'Antin, 75009 Paris, France

Telephone: + 33 (0)1 40 76 06 89

Website: www.icdacr.com

Contact: info@icdacr.com

Follow us on  