

Newsletter



International Committee
for Study of
Bauxite, Alumina and Aluminium

ICSoba



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ICSOPA Newsletter, a biannual publication.

The picture on the front page shows the map of Brazil.

In case you consider publishing in this forum, please contact the editor before writing your article.

Deadlines for a June issue is 10th of June and for a December issue 10th of December.



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FOREWORD



Claude H. Vanvoren - Chairman of ICSOPA

Dear ICSOPA Members,

At the time of printing this foreword, we are only four months ahead of our next international conference which will be held in the Grand Mercure Hotel in Belem (Brazil) from 29th of October to 1st of November. The program organizers already received many abstracts and I encourage those of you who didn't to lodge yours before the June deadline. As you understand, complying with abstract and full paper deadlines is paramount to ensure quality review by the Technical Committee. However, as a tradition with ICSOPA, we will make our best efforts to integrate late abstracts.

Since the Hamburg conference our aluminium landscape witnessed many events from sustained higher LME price associated with China production control, imposition of US import tariffs, still unsettled, decision of US sanctions directly impacting RUSAL and, consequently, disturbing aluminium, alumina and bauxite markets and, very recently, the announcement of a breakthrough smelting technology development by Alcoa / Rio Tinto.

Alongside those events and announcements, Industry 4.0 concept is making progress and we can observe many signals of significant evolution of aluminium industry with this respect.

This year ICSOPA is returning to Brazil, a country with a long history of aluminium industries, and it will be the perfect forum to learn and debate those issues. No doubt, alumina refinery and bauxite residue will be under the spotlight and ICSOPA is keen to contribute to the development and the dissemination of new solutions to reduce our industry environmental footprint.

The 36th international conference will therefore be an opportunity to listen not only to the views of renowned keynote speakers including representatives from our host company, Hydro, but also to several Latin American, Indian and Chinese industry leaders, as well as market and general presentation from CRU and Wood Mackenzie.

As you know, ICSOPA vision is to be The Technology Conference of the Aluminium Industry, for the Aluminium Industry.

ICSOPA is a truly international organization which is reflected in its Board composition integrating a fully diversified association representatives, both in terms of Companies and Geography.

ICSOPA is one of the rare organizations, if not the only, bringing its conference on the home turf of its members having recently visited Goa (India), Belem (Brazil), Krasnoyarsk (Russia), Zhengzhou (China), Dubai (UAE), Quebec City (Canada) and Hamburg (Germany), thus providing unique opportunity for local contributors to take on the stage and share their success or their challenges with technical, operation and management colleagues.

ICSOPA is also and mainly an organization belonging to its members. Belem general assembly will provide an opportunity for the Board to report on the work done since the last conference and for the members to express their views and votes.

Participating in an ICSOPA meeting is not only rewarding for a delegate but more importantly it is also of high return for delegate's companies through the know-how they bring back home from these few days.

As of this 36th ICSOPA conference, I would like to extend my best wishes, on behalf of the ICSOPA Directors, to all of you for an enjoyable and successful conference in Belem.

With my best regards,

Claude H. Vanvoren
Chairman of ICSOPA

UPCOMING EVENT: ICSOPA 2018 in Belem

Conference organization

When it comes to successfully staging major events, ICSOPA’s recent track record speaks for itself. In the past few years, the ICSOPA forum was the scene of five-day gatherings in various parts of the globe. The ICSOPA-2018 Conference and Exhibition is also geared up to exceed all our expectations. This year event is organized by ICSOPA in cooperation with Hydro Brazil and will be held in the Grand Mercure Hotel in Belem, Para from 29 October to 1 November. Some practical pieces of information are available for you below. For more information, please visit the website (<https://www.icsopa.org/icsopa2018>).

Advanced Registrations

Conference registration is managed by ConfTool which is customized for ICSOPA 2018 Conference. The access to ConfTool is via ICSOPA website: <https://www.icsopa.org/icsopa2018>

Fees

ICSOPA (since 1963) is a non-profit organization, so the delegate fees are maintained low. The fees include Welcome Cocktail, Gala Dinner, as well as all lunches and coffee breaks during the speaker program. Other dinners are excluded. A bag with all event material including USB flash drive with conference program, proceedings and presentations is also included in the conference fee.

<i>Fees in USD</i>	<i>Early bird</i>	<i>Normal</i>
<i>Delegate</i>	<i>780</i>	<i>880</i>
<i>Conference speaker, exhibitor</i>		<i>680</i>
<i>Student or retired delegate</i>		<i>260</i>
<i>Excursion to Alunorte alumina refinery or Albras smelter.</i>		<i>50</i>
<i>Excursion to Paragominas bauxite mine</i>		<i>135</i>
<i>Printed proceedings (TRAVAUX No. 47)</i>		<i>100</i>
<i>Potential SPONSORS and EXHIBITORS are welcome to visit the ICSOPA website</i>		

Please note that registration deadlines are fast approaching.

- ✓ **July 30:** To enjoy the early bird registration fee
- ✓ **July 30:** For registration with business visa support
- ✓ **August 30:** For registration of a paper presenter
- ✓ **August 30:** For booking a booth

Venue of the conference



The conference will take place in **Grand Mercure Hotel** that is ideally located downtown Belem and close to the city's main tourist attractions such as the Estação das Docas, Ver-o-Peso Market, Presépio Fort, Pará museum of sacred art and the Paz Theater. The Grand Mercure Belém features 173 modern, comfortable rooms, as well as the Bacçalà restaurant, 24-hour room service, a fitness center, pool, sauna, valet parking, convention center with capacity for 600 people and free WIFI.

60 rooms are set for ICSOBA at Grand Mercure until 15 August. After that date the rooms will be distributed on the first-come-first-served basis. Individual reservations may be requested directly using the hotel email at:

reservas.grandmercurebelem@accor.com

Please mention that it is for ICSOBA conference participant. The special rate for a standard single room is R\$320 (Brazilian Real). The price includes breakfast and internet. Do not delay your room reservation!



Exhibition

During the Conference, an Exhibition of latest technologies, equipment and other devices for the aluminium industry is planned (29 – 31 October). Please confirm your participation at the earliest.

Registration, Welcome Reception and Meals:

The registration will start on Sunday, 28 October from 16 h to 20 h and will continue on Monday, 29 October in the morning at the Welcome Desk. Welcome Cocktail with drinks and light buffet will be on Sunday, 28 October, while the Gala Dinner will be on Monday, 29 October in the evening. Best Papers Cocktail will be on Wednesday, 31 October in the evening.

Language

Presentations will be in English. The papers and presentations will be published in English.

Visa Support

If your country requires Brazilian visa, you will have to get one from the nearest Brazilian consulate before entering Brazil. Currently, citizens of Canada, the United States and Australia require visas. Citizens of the United Kingdom, other European Union countries, New Zealand, Mexico and Russia do not need visas, but the passport needs to be valid for six months.

Delegates who may have difficulty obtaining visa can count on ICSOBA support and should contact ICSOBA secretariat (Dipa) until 15 August. Arrangements regarding visa support have been made with Hydro.

Retired & Student Incentives

ICSOBA offers great incentives for retired delegates and for students (including post docs) to attend the conference. From reduced fees to free meals to award opportunities, students can receive all the benefits the conference has to offer at a low cost.

Program of the 36th ICSOPA Conference and Exhibition

The event in Belem will begin on Sunday, 28 October 2018 with a welcome cocktail. The official opening ceremony of the congress and exhibition will take place on Monday morning, followed by a plenary session consisting of lectures on subjects relevant to the aluminium metallurgy and mining industries. In the afternoon the technical session will commence.

View the tentative program of the 36th ICSOPA Conference and Exhibition

Please note, this is subject to change at the organizer's discretion.

Date	Time	Event	Room
Saturday, 27 October	09:00 – 17:00	Conference preparations	Sala Eneida de Moraes
Sunday, 28 October	09:00 – 17:00	Directors meetings	Sala Eneida de Moraes
	16:00 – 19:30	Conference registrations	Foyer
	19:00 – 22:00	Opening cocktail	
Monday, 29 October	07:00 – 18:00	ICSOPA office	Sala Eneida de Moraes
	08:00 – 17:30	Exhibitors office	Sala Manuel Bandeira
	09:00 – 17:00	Exhibition + coffee	Foyer (Exposicao)
	08:00 – 12:30	Keynote session	Sala Mario de Andrade A+B+C+D
	14:00 – 18:00	Joint Carbon – Aluminium sessions	Sala Mario de Andrade D
	14:00 – 18:00	Joint Bauxite – Alumina – Bauxite Residue sessions	Sala Mario de Andrade C
	19:00 – 22:30	Gala dinner	Sala Mario de Andrade A+B+C+D
Tuesday, 30 October	07:00 – 18:00	ICSOPA office	Sala Eneida de Moraes
		Exhibitors office	Sala Manuel Bandeira
	09:00 – 17:00	Exhibition + coffee	Foyer (Exposicao)
	08:00 – 17:30	Aluminium Technical Sessions	Sala Mario de Andrade D
	08:00 – 10:00	Joint Bauxite - Alumina - Bauxite Residue sessions	Sala Mario de Andrade C
	10:30 – 15:30	Bauxite and Alumina Technical sessions	Sala Mario de Andrade C
	10:30 – 15:30	Bauxite Residue Technical sessions	Sala Mario de Andrade B
	16:00 – 17:30	Joint Bauxite - Alumina - Bauxite Residue sessions	Sala Mario de Andrade C
	08:00 – 17:30	Carbon Technical Sessions	Sala Mario de Andrade A
17:30 – 18:30	Members meeting	Sala Mario de Andrade C	
Wednesday, 31 October	07:00 – 18:00	ICSOPA office	Sala Eneida de Moraes
		Exhibitors office	Sala Manuel Bandeira
	09:00 – 17:00	Exhibition + coffee	Foyer (Exposicao)
	08:00 – 18:00	Aluminium Technical Sessions	Sala Mario de Andrade D
	08:00 – 18:00	Bauxite and Alumina Technical Sessions	Sala Mario de Andrade C
	08:00 – 12:30	Bauxite Residue Technical Sessions	Sala Mario de Andrade B
	18:00 – 19:00	The Best Papers Awards	Sala Mario de Andrade C
	19:00	2019 Program organizers meeting	Sala Mario de Andrade B
Thursday, 1 November	From 08:00	Field Trips	Sala Eneida de Moraes
	16:00 – 18:00	Directors meeting	
Friday, 2 November		Directors meeting	

Keynote session

Keynote speakers:

For the opening session on 29 October eight keynote speakers are already confirmed:

- ▣ **Raphael Costa**
Technology Director at Hydro Bauxite & Alumina
- ▣ **Milton Rego**
Deputy President of ABAL – Brazilian Aluminium Association
- ▣ **Luis Jorge Leal Nunes**
Business Unit Director - Bauxite, Alumina and Primary Metal, CBA (Companhia Brasileira de Alumini)
- ▣ **Prof. Dr Rômulo Simões Angélica**
Dean at UFPA - Federal University of Para, Brazil
- ▣ **Dr TK Chand**
Chairman cum Managing Director of NALCO (National Aluminium Company)
- ▣ **Shan Guibin (Aladdiny)**
Independent Consulting Company - China
- ▣ **Carl Firman**
Aluminium Analyst - Wood Mackenzie
- ▣ **Caroline Alglave**
Analyst – Aluminium Cost - CRU

Technical sessions: 29 - 31 October

- ▣ Global bauxite resources and mining scenario.
- ▣ Bauxite residue, challenges and its applications.
- ▣ Alumina production, specialty alumina.
- ▣ Aluminium reduction – new smelter and cell design.
- ▣ Carbon and carbon materials, non-consumable anodes and new cathode design.
- ▣ Casting and aluminium recycling.
- ▣ Economics, finance - new projects in mining and metallurgy.
- ▣ Regional dynamics and market analysis.
- ▣ Upstream and downstream challenges and opportunities.
- ▣ Environment, zero emission plants, health and safety.
- ▣ Operational excellence and productivity.
- ▣ Innovation and new technologies.
- ▣ Manpower for the next generation aluminium industry.

Plant Visits

On 1 November field trips to three different plants will take place:

- ▣ Albras smelter
- ▣ Alunorte alumina refinery
- ▣ Paragominas bauxite mine

The allowed number of visitors is limited (45, 40, 30, respectively).

The trip to Paragominas is long and requires a one-night stop at a local hotel (included in the price). The bus to Paragominas will leave Grand Mercure at 8:00. Arrival is planned for 13:30 with a 0.5 h stop on the road. A stay overnight at a hotel is necessary but its cost is included in the price. Meals are at the delegate expense. Return from Paragominas to Belem is expected at 13:00 on Friday, 2 November.



The bus to Alunorte in Barcarena will leave at 8:30 with 10:30 arrival. The return departure is planned at 14:30 the latest.



The bus to Albras in Barcarena will leave at 9:00 with 11:00 arrival time. The return departure is planned at 15:00 the latest. Buses will be properly identified with ICSoba logo. Please reserve your seat on the bus early.

For the plant visits each visitor must provide information regarding the size of shoes and t-shirts during ConfTool registration. This information will be



transmitted in advance to the plant. Each plant will then provide the necessary PPEs. All visitors must wear long trousers (jeans), long-sleeved shirt and closed shoes without heels (sneakers).

Plant will provide a driver to escort the vehicle of the visitors inside the units.

About the Host Sponsor

Hydro is a global aluminium company with production, sales and trading activities throughout the value chain, from bauxite, alumina and energy generation to the production of primary aluminium and rolled products as well as recycling. Based in Norway, the company has 13 000 employees involved in activities in more than 40 countries on all continents. Rooted in more than a century of experience in renewable energy production, technology development and progressive partnerships, Hydro is committed to strengthening the viability of the customers and communities they serve.

In Brazil, Hydro is present in many parts of the aluminium value chain. Brazil is Hydro's main source of bauxite and is the country where the company has the most employees - more than 5 000 if long-term contractors are included.

Bauxite is mined in Paragominas and Trombetas and refined to alumina at the world's largest alumina refinery, Alunorte in Barcarena. Hydro Brazil also produces 460 000 tonnes of aluminium metal annually at the Albras plant, which they partly own.

Sapa (now Hydro Extrusions) has operations in Brazil. Hydro Extrusion is the world leader in aluminium solutions within extrusions, building systems, and precision tubing.

ICSoba MATTERS

Life of the association



Dr Frank Feret, CEO, Vice Chairman of ICSoba

To help you stay informed, here is the most recent news about ICSoba. Happy reading!

ICSoba Financial Situation

ICSoba fiscal year with Revenue Quebec and Revenue Canada is from 1 January to 31 December. Management of ICSoba is responsible for the preparation of these financial statements in accordance with Canadian accounting standards for not-for-profit organizations. Continuing our dedication to transparency ICSoba finances are audited. Since 2013 a public accountants' office of Gariépy & Bussière CPA INC is requested to carry out the annual task.

Summary of operations revenues and expenses (in CAD\$) for years ending 31 December 2017, 2016, 2015 and 2014 is as follows:

	2017	2016	2015	2014
EXPENSES	318,793	215,340	182,640	238,383
REVENUES	380,933	246,096	262,443	228,483
EXCESS OF REVENUES OVER EXPENSES	62,140	30,756	79,803	(9,900)
ASSETS CURRENT (Cash, GIC, Receivables, Prepaid expenses)	344,760	280,220	250,789	168,234
LIABILITIES CURRENT	5,304	2,904	4,229	1,477
NET ASSETS	339,456	277,316	246,560	166,757

In the 2017 financial statements of the auditors we read: "Based on the review, nothing indicates that the 2017 Financial Statements are not in accordance with Canadian accounting standards for not-for-profit organization".

As the financial statements reveal the excess of revenues over expenses was \$62,140 last year, compared to losses in some of the previous years (2013, 2014). This was chiefly possible due to better than expected delegates participation from Germany and from Europe. Also, no services were hired to do local organization tasks as all contributions came from ICSoba and TRIMET staff. The support from sponsors and exhibitors (\$80,100) was almost the same as in 2016.

Following the financial review, the tax declarations were filed with Revenue Quebec and Revenue Canada for 2017. Confirmations have already been obtained that ICSoba does not have taxes to pay and retains its not-for-profit status.

ICSoba primary revenue leaders are the events and sponsors. We would like to take this opportunity to thank sponsors and exhibitors for your invaluable support. It is such a privilege to be able to count on a strong

and devoted community. Your support makes a real difference. As a not-for-profit, ICSOPA focuses on using all resources to advance the association's mission. The available funds belong to the association and are meant for the development and promotion of ICSOPA and future events. Some money reserve is necessary for rainy days and to continue uninterrupted operations and monetary advances. Present ICSOPA monetary reserve should help to ensure continuity of ICSOPA.

It is fair to acknowledge that it is not possible to have ICSOPA management working very hard and very long hours without some compensation. Also, several volunteers provide significant amounts of time to the activities of the organization. Because of the difficulty in assigning values for such services, the value of donated time is not reflected in the financial statement. At the same time, we admit that any compensation needs to be transparent.

Some changes to compensations of ICSOPA management and organizing staff were proposed. For example, the Board of Directors has resolved to wave the conference registration fee to assist active organizers and help them participate in the events. Details will be presented at the Annual Meeting of Members in Belem.

Election to the Board of Directors

The most important responsibility that we all have toward the association is to assure ICSOPA continuity and growth. ICSOPA is an international association of members and the members periodically elect the Board of Directors in the Annual Meeting. The next election will take place at the time of the 36th ICSOPA conference to be held in Belem, Brazil (on 31 October in the evening). Among the existing Board members Frank Feret, Andrey Panov and Michel Reverdy have been elected at the last election in Zhengzhou, China for 2 + 2 years. Their four years of the mandate will come to the end at the time of the conference in Belem. Four other directors on the present Board (Claude Vanvoren, Matthieu Arlettaz, Houshang Alamdari and BS Pani) were elected in Quebec in 2016. The 2019 President will be nominated according to current Bylaws.

During the election we need to make sure that we have the hands to pass the torch to, so it can be carried into the future. Appropriate board composition is important not only for the operation of the entire team, but for individual well-being of each of the members. Group of directors ought to be filled with members, whose mutual interaction has a beneficial and positive nature. The elected individuals ought to be strongly identified with the aluminium industry and be committed to maintaining ICSOPA credibility and accountability on the international scale. The renewed board would be expected to forge a strong bond and trust with present members and push ICSOPA's legacy to the next level.

Membership

ICSOPA is a well-recognized international not-for-profit association of members with the vision of being the "Technology Conference of the Aluminium Industry, for the Aluminium Industry". ICSOPA Mission consists in:

- ▣ Promoting the exchange of ideas and know-how from different fields of research related to bauxite exploration and mining, and alumina and aluminium production.
- ▣ Organizing yearly Technology Conference with a scope of covering upstream aluminium activities from bauxite to liquid metal. Annual events represent a platform to advance the interests of our society as ICSOPA is the industry ally.
- ▣ Organizing this event in such a way that it encourages companies to send their employees, universities and other R&D organizations to send their professors and students, consultants, suppliers and individuals to attend and contribute.

ICSOPA members are active in different fields and specializations, and they work within different social and economic frameworks, but there is one thing they have in common: they share the same conviction of the strategic role of aluminium in the present stage of world development.

There are two (2) classes of members in the association namely Individual Members and Corporate Members. Membership is typically renewed every year (however Corporate Members are encouraged to subscribe multiyear membership) with a cycle time starting on the first day of the yearly conference and ending on the eve of the first day of following year conference.

■ *Individual Membership Conditions and Benefits*

Any delegate who registers for an ICSoba yearly conference automatically becomes a member for one year (ICSoba cycle time as described above).

As Individual member of ICSoba you will benefit from:

- ▣ A unique exposure to different facets of our industry across the world.
- ▣ Higher potential and technical competence.
- ▣ Influencing ICSoba strategy and strategy deployment with your vote during the Annual Member Meeting which is taking place during the yearly conference.
- ▣ Receiving twice a year the ICSoba Newsletter with news and articles from members.

A person who does not attend the annual event could retain membership by paying US\$ 100 annually.

■ *Corporate Membership Conditions and Benefits*

By becoming an ICSoba Corporate Member you intend to:

- ▣ Support, in the long run, the vision of ICSoba to become the "Technology Conference of the aluminium Industry, for the aluminium Industry".
- ▣ Support, in the long run, the ambition of ICSoba to organize the best annual Technology Conference of the aluminium industry as well as achieve ICSoba mission.
- ▣ Influence, in the long run, ICSoba strategy and strategy deployment to achieve the above vision and mission through a dedicated Corporate Members Council, meeting twice a year (1 member = 1 vote).

As Corporate Member of ICSoba you are part of the global community of bauxite, alumina and aluminium industry and would be able to freely exchange ideas and results of work with the best of scientific researchers and domain specialists from the fields of bauxite, alumina and aluminium from all five continents at ICSoba conventions and through its website.

As Corporate member of ICSoba your company and its workforce will benefit from the annual events because they:

- ▣ Allow your company delegates to learn, grow personally and expand their professional horizons and to widen their circle of contacts
- ▣ Offer unique exposure to different facets of our industry across the world
- ▣ Result in higher potential and technical competence of your professional workforce.

As Corporate Member, a 10% discount applies to the registration fee at all stages for each delegate of your company.

As Corporate Member of ICSoba you will increase the visibility of your company in the bauxite, alumina and aluminium industry through your Company logo displayed in ICSoba Newsletter, website and general communication.

The corporate membership is renewed annually. As corporate membership is associated with a “long run” support mindset, we encourage multi-year engagement:

5 years (corresponding to strategic plan)	US\$ 4000
4 years	US\$ 3400
3 years	US\$ 2600
2 years	US\$ 1800
1 year	US\$ 1000

The cycle time starts on the first day of the yearly conference and ends on the eve of the first day of following year conference. For example, for cycle time 2017 – 2018 the start date is 01/10/2017 and the end date is 27/10/2018.

We trust you understand ICSOPA vocation very well and we all are grateful for your continuing help. Without this help ICSOPA would not be able to accomplish its mission. Please provide our secretariat with your PO number to set up an invoice. Our desire to help others is the reason behind the Corporate Members Council. With great abilities come great possibilities.

For further information, feel free to contact one of ICSOPA Director. Contact emails are available at <https://www.icsoba.org/board-directors-offices>.

The 2017/2018 Corporate Members are:



Website

Printed proceedings of past ICSOPA events, the so-called TRAVAUX volumes, have been scanned to separate searchable pdf files. The Tables of Contents of the scanned TRAVAUX volumes have been made public on the website <https://www.icsoba.org/proceedings>.

ICSOPA members can obtain digital versions up to 20 papers from past proceedings, each year, at no cost by sending an email request to info@icsoba.org.

Additional papers are charged at the rate of CAD 20 each.

Your feedback to make the website more attractive is welcome.

Publication Ethics (ICSoba Conference Proceedings)

Editors

TRAVAUX Proceedings have a Program Director and Subjects Organizers who are recognized experts in the field. The full names and affiliations of the editors are provided on the ICSoba website <https://www.icsoba.org/call-for-papers>.

Authors

- ▣ There are no fees or charges for manuscript processing and/or publishing papers in TRAVAUX. Templates for abstracts, papers and presentations, as well as the submission procedures are clearly stated on the website. Authors must comply with the Templates.
- ▣ Each paper is accompanied by a presentation which must be presented at the conference by one of the authors or in exceptional case by another delegated person.
- ▣ All abstracts, papers and presentations are reviewed in order to guarantee high quality and the authors should follow corrections and instructions from the reviewers.
- ▣ Citations of the text or figures should be referenced.
- ▣ Financial support and permission to publish can be acknowledged.
- ▣ Acknowledgment can be given to contributors to the paper or research who are not the authors.
- ▣ Authors should make sure that the published material has been reviewed and authorized by the companies or organizations contributing to the technical material or who gave financial support for the published research.
- ▣ If some of the content of a paper has been already published before, at least one third of material must be new for an ICSoba paper; otherwise the paper will be refused.

Review Process

- ▣ Subject Organizers are responsible for the review process in their subject. The Program Director is responsible for the review of Keynote papers. They can be assisted by nominated reviewers.
- ▣ The review process assures high technical quality of papers and presentations, as well as uniform formatting, defined in Templates.
- ▣ Reviewers should avoid conflict of interest with authors.
- ▣ Reviewers should point out relevant published work which is not cited in the paper.
- ▣ Reviewers should keep the papers confidential until they are published.

Publication Ethics

Editors shall identify and refuse the publication of papers which are strictly commercial.

Editors shall identify and refuse the publication of papers that contain unsubstantiated, conflicting or misleading results and claims.

Editors shall accept a corrected version of a paper by the authors and make it available in appropriate electronic version.

Copyright and Access

ICSoba papers are not copyrighted and can be freely reproduced and distributed publicly. The papers from recent years are available on ICSoba website to which internet browsers also give access.

Archiving

ICSoba has archived all the past TRAVAUX which can be made available on request to ICSoba.

Name of Proceedings

TRAVAUX is a unique name for ICSoba Proceedings.

Public Relations and Communication

User Privacy Notice - New EU Rule (GDPR)

We have updated our User Privacy Notice to reflect changes we've made to strengthen your privacy rights. This is part of our ongoing commitment to be transparent about how we use your data and keep it safe. We have included changes to address the new standards introduced by the European data protection law known as the General Data Protection Regulation (GDPR).

Keeping your data safe and increasing transparency are important to us, and we are committed to these changes. The new GDPR law goes into effect on May 25, 2018 and many ICSoba contact persons around the world will benefit from the added privacy protections this law affords.

You are encouraged to subscribe to the mailing list at:

https://my.sendinblue.com/users/subscribe?js_id/38|ht/id/

Report on the 2nd International Bauxite Residue Valorization and Best Practices Conference

The 2nd International Bauxite Residue Valorization and Best Practices Conference (further on BR-2018 Conference) was held between 7-10 May 2018 in Athens, Greece. This conference was a continuation of the BR-2015 Conference that took place in Leuven, Belgium (5 to 7 October 2015), which was unique in its kind since it gathered professionals from all over the world who worked on various aspects of the valorization of bauxite residue (traditionally called „red mud“).

The conference was organized in seven thematic research and development areas, aiming at a zero-waste utilization of bauxite residue:

- ▣ From bauxite to a modified bauxite residue
- ▣ Neutralization, revegetation and beyond
- ▣ Integrated, near zero waste processes
- ▣ Novel Applications
- ▣ Recovery of Fe, Al, Ti
- ▣ Cement, concrete and inorganic polymers
- ▣ Recovery of critical elements

Altogether 61 publications were submitted (4 keynote lectures, 38 oral presentations and 19 posters were held accompanied by short oral summaries). The number of participants was about 150. The Keynote lectures were:

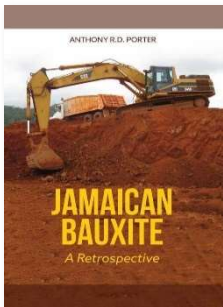
- ▣ Bauxite Residue Handling Practice and Valorization Research in Aluminium of Greece
 - Authors: Efthymios BALOMENOS, Panagiotis DAVRIS, Yiannis PONTIKES, Dimitrios PANIAS, Asterios DELIPALTAS
- ▣ EGA's Unique Bauxite Residue Roadmap
 - Authors: Steven ROSENBERG, Markus GRÄFE
- ▣ EIT Raw Materials – world's largest innovation network in metals and minerals
 - Krzysztof KUBACKI
- ▣ Modeling CO₂ savings and economic benefits for the Kalundborg Symbiosis
 - Authors: Stefan E. DANIELSSON, Lisbeth RANDERS

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- ▣ <http://conference2018.redmud.org/photos-2/>
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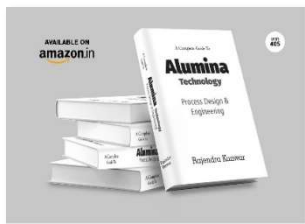
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Books



You will be interested in knowing about a just released, first-of-its-kind, book on Jamaican bauxite. The book is by Anthony Porter, a former Alcan (Rio Tinto) geologist living in Jamaica. His book is available as an eBook at:

<https://www.bookfusion.com/books/147301-jamaican-bauxite>



Rajendra Kunwar, engineering consultant, published "A Complete Guide to Alumina Technology, Process Design and Engineering". This book is the exposition for engineers involved in preparing basic engineering, carrying out detailed engineering and developing various process design calculations for Alumina refinery. His book

is available from Amazon India at: <http://amzn.in/bQGvBCv>.

Professor Emeritus Fathi Habashi from Laval University in Canada has recently published an article in *Journal of Textile Science & Engineering* stressing that Karl Josef Bayer's invention in 1892 of alumina production was done at the Tentelev plant in Saint Petersburg in Russia for the use of $Al(OH)_3$ as a mordant. Mordanting textiles with aluminum hydroxide were a common dyeing practice at that time.



Karl Josef Bayer
(1847-1904)
at the Russian plant

Reference: F. Habashi, "Alumina Production and the Textile Industry", *J. Textile Sci. & Eng.* 7(6),1-3(2017). <https://www.omicsonline.org/open-access/alumina-production-and-the-textile-industry-2165-8064-1000327.pdf>

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