

Newsletter



International Committee
for Study of
Bauxite, Alumina and Aluminium

ICSOBA



IN THIS ISSUE

| | |
|---|----|
| Foreword | 4 |
| Highlights of the year 2018 | 5 |
| Post Conference Note - the 36th ICSoba Conference and Exhibition in Belem | 6 |
| Organizers | 7 |
| ICSoba Medals | 7 |
| The Best Paper Awards | 8 |
| Students Grants | 9 |
| Plant Visits | 9 |
| Sponsors 2018/ 2019 and the Exhibitors | 10 |
| ICSoba 2018 Satisfaction Survey | 10 |
| Upcoming Event: ICSoba 2019 in Krasnoyarsk, Russia | 11 |
| Rusal and Russia, Bauxite, Alumina and Aluminium Industry | 11 |
| Conference Organization | 12 |
| Registrations | 12 |
| Program of the Conference | 13 |
| Speaker Program | 14 |
| Venue of the Conference | 14 |
| Exhibition | 15 |
| Field Trips | 15 |
| Language | 17 |
| Visa Support | 17 |
| Retired & Student Incentives | 18 |
| About the Host Sponsor | 18 |
| ICSoba Matters | 18 |
| Elections to the Board of Directors | 18 |
| Membership | 19 |
| Website | 22 |
| Publication Ethics (ICSoba Conference Proceedings) | 22 |
| Public Relations and Communication | 24 |
| Associated Organizations | 24 |
| ICSoba's Office | 25 |

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*ICSoba is registered as non-profit association at:
Corporations Canada, Ontario under number 802906-7, and
Registraire des Entreprises, Québec numéro 1167982181.*

ICSoba Newsletter, a biannual publication.

The picture on the front page shows the entrance of the Grand Mercure hotel in Belem, Brazil, where the 2018 ICSoba conference took place.

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

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

Foreword

Dear ICSOBA Members,

As you must have noticed, this NEWSLETTER appears in a new format. It also marks a departure of Gyorgy Banvolgyi as Editor, our dear colleague and one of the most senior members of the ICSOBA family. Gyorgy stepped down as Editor but will remain available to ICSOBA for special missions. For the roles Gyorgy played for ICSOBA over the decades he obtained free registration to the future ICSOBA events.

When writing this Foreword, just a month and a half after our 2018 Belem Conference, it's the time for ICSOBA Board to distil and ingest the feedback received from all of you to ensure ICSOBA Conference is and stays wholly and truly YOUR Aluminium Conference.

To this end, you gave us this year again an amazing number of suggestions through the Belem satisfaction survey for which I would like to warmly thank you again for your participation (54% response rate) but also for your numerous suggestions. You will read the highlight of the survey in this NEWSLETTER.

We are currently in the process of sorting, grouping and ranking your suggestions, but there is already one message coming loud and clear: the ICSOBA DNA does not need to be changed. That is:

- Balanced program between Upstream (B&A) and Midstream (Carbon and Reduction);
- Move ICSOBA conference where Aluminium action take place;
- Field trip option.

This message is also perfectly aligned with the one we got from the representatives of ICSOBA Corporate Members who met in Belem for the first ICSOBA Corporate Members Council. As of today, 19 Companies are supporting ICSOBA Strategy through their engagement on the long run.

Adding the suggestions from the Council and your suggestions will ensure ICSOBA Strategy and Strategy Deployment will strive to our vision to be The Technology Conference of the Aluminium Industry, for the Aluminium Industry.

As part of this Strategy, the conclusion of an MOU with Quartz Business Media for an ICSOBA session during 2019 Future Aluminium Forum to be held on 22nd and 23rd May 2019 in Warsaw, Poland is a testimony of ICSOBA engagement to support development trends of automation and digitalisation in Aluminium Industry. This session, which was introduced in Belem, will deal with "Aluminium 4.0: when process approach meets data-driven approach in mining, refining and smelting". We encourage all of you to submit presentation and attend this forum.

Making the changes required to ensure ICSOBA Conference transforms itself in accordance with the needs of the new development trends, whilst keeping up with our DNA which ensured the success of ICSOBA for the last 55 years is ICSOBA Board permanent objective.

Another testimony is the collaboration with Non-Ferrous Metals and Minerals of Siberia for the organisation of the 37th International Conference and Exhibition of ICSOBA which will be held from 16th to 20th September, in Krasnoyarsk, Russia hosted by UC RUSAL.

Looking forward to welcoming you in Krasnoyarsk,

With my best regards,

Dr Claude H. Vanvoren
Chairman of ICSOBA

Highlights of the year 2018

- A very successful conference was organized in Belem, Brazil in October 2018, in which 225 delegates participated with 99 papers presented, and which was supported by numerous sponsors, with Hydro as the host sponsor. 85 delegates took part in three field trips to Paragominas bauxite mine, Alunorte refinery and Albras smelter.
- TRAVAUX volume No 47 corresponding to the Belem conference was published with 1044 pages. The TRAVAUX content and copies of presentations were handled to the delegates on pendrives.
- The Payment Policy was revised and is available on the ICSOBA website.
- Stripe credit card payment system was introduced in order to optimize registration process and payment by delegates.
- New guidelines for presentation and publishing a paper were elaborated.
- The ICSOBA website was improved and is constantly updated. A version of the ICSOBA website for mobile devices was created.
- MOU was signed with AAI (Aluminium Association of India) to support INCAL 2019 organization to take place in Bhubaneshwar, India next January. A similar MOU agreement was signed with Quartz Business Media regarding the ICSOBA contribution to the 2019 Future Aluminium Forum in Warsaw, Poland, next May.
- ICSOBA continued bilateral agreements with several media partners.
- ICSOBA was represented and promoted at Metal Bulletin (Montego Bay, Jamaica), and TMS.
- Two communications highlighting ICSOBA and its mission were published in international journals (AICircle and Aluminium Today).
- Publication of 2017 selected papers was accomplished in “Metals”.
- Marketing partnership agreement was established between ICSOBA events and AICircle.
- An article about the ICSOBA 2017 conference was published in The International AI Journal.
- Two NEWSLETTERS were issued (January 2018, June 2018) and circulated to members.
- ICSOBA’s past fiscal year (2017) and corresponding financial activity was revised by Gariépy & Bussière CPA Inc. chartered accountants. The financial statement was filed with Revenue Canada and Revenue Quebec. The Revenue Canada and Revenue Quebec confirmed that ICSOBA does not owe any tax for 2017.
- ICSOBA’s Annual Report (2017) and Bylaws were filed with Industry Canada and Registraire des entreprises Québec.

Post Conference Note - the 36th ICSOBA Conference and Exhibition in Belem, Brazil

Since 1963 ICSOBA (The International Committee for Study of Bauxite, Alumina and Aluminium) has organized 35 international events in different places of the world. For the first time, ICSOBA came to Brazil in 1998 and the event took place in Sao Paulo. Then, the Belem symposium in 2012 was the second on record on the Brazilian soil. The selection of Belem, the capital of the Para state of Brazil for the 36th International Conference and Exhibition, follows ICSOBA’s practice of rotating the venue of International Meetings to countries that play an important role in the global aluminium industry. This year, ICSOBA came to Brazil to recognize strong progress that this country

has made, in the aluminum industry but also in general. Brazil is the third largest bauxite and alumina producer behind Australia and China.

The 36th International Conference and Exhibition of ICSoba was held in the period 29 October – 1 November. The Conference obtained support from Hydro, the host sponsor and attracted 225 delegates from 26 countries. From Brazil alone 95 delegates contributed. Very high-quality papers were selected for presentations (99) and published in the volume 47 of TRAVAUX conference proceedings. During the Conference, an Exhibition of latest technologies, equipment and other devices for the bauxite, alumina and aluminium industry took place with 12 participants. The last day of the conference saw three field trips to Paragominas bauxite mine, Alunorte alumina refinery and Albras smelter.



Organizers

The staging of this conference could not have been possible without the extraordinary effort of the organizing committee. The subject organizers this year are Robert LaMacchia and Andrey Panov (bauxite and alumina), Matthieu Arlettaz (carbon), and Vinko Potocnik (electrolysis).

The technical part was assured by a team led by Michel Reverdy, Program Director. Michel and Vinko Potocnik both of EGA, Dubai did an outstanding job again this year putting together the conference technical program and TRAVAUX proceedings. The volume No 47 of TRAVAUX that I have in my hand has 1044 pages of your contributions with the editorial quality the highest possible. We are pleased to let you know that this year we have selected 99 different papers that are published in TRAVAUX.

On behalf of the Organizing Committee we also want to express our great appreciation to the authors of papers. Without the authors, the conference would not have la raison d'être. Special thanks go to the paper reviewers and session chairs (Steve Healy, Alessio Scarsella, Brady Haneman, Stephan

Beaulieu, Linus Perander, Roman Dussel, Martin Segatz, Patrice Cote and Dagoberto Severo). We would also like to acknowledge the priceless contributions of: the remaining members of the Board of Directors: Andrey Panov, Houshang Alamdari, and BS Pani, on the part of the Board of Directors, Dipa Chaudhuri (executive secretary) - as well as the administrative staff from ICSOBA (Barbara Feret, Dany Vanvoren and Marie-Claude Goyette) and Hydro (Silene Vendrasco, Pablo Azevedo).

ICSOBA Medals

On ICSOBA's 50th anniversary in 2013, the Awards Committee decided to produce commemorative medals (see below). The new "ICSOBA Commemorative Medal" is 70 mm in diameter and takes its inspiration from two past designs. On one side are the embossed portraits of Pierre BERTHIER, Karl Joseph BAYER, Paul Louis Toussaint HEROULT and Charles Martin HALL. On the other side are the emblems of ICSOBA and the World, the full ICSOBA name, the name of the person awarded and the year of bestowal.



As in the past, the "ICSOBA Commemorative Medal" constitutes a special recognition and may be awarded only to a small number of recipients each year. The medal may be awarded to those members who achieved significant scientific or practical results within the field of work, or who notably strengthened ICSOBA organization or promoted its international scientific and industrial cooperation. The name of the awarded person is inscribed on the medal, and the awarding event is published in the NEWSLETTER.

Three medals were awarded in Belem to:

1. **Raphael Vieira da Costa – Hydro Brazil** in recognition of welcoming ICSOBA in Belem in October 2018, facilitating the organization of the highly successful conference, and seeing to ICSOBA's prosperity and growth.
2. **Matthieu Arlettaz of R&D Carbon** in recognition of his introduction of modern tools (ConfTool, Stripe, Whova), which revolutionized ICSOBA conference administration and his contribution to organization of the highly successful events, thus seeing to ICSOBA's prosperity and growth.
3. **Sudipta Chaudhuri (Dipa)** for her long-term commitment to ICSOBA, and for her tireless efforts in promoting it and its mission, thus seeing to ICSOBA's prosperity and growth.

Three Al Maple Leaf dishes with ICSOBA name were offered to the visited plants as tokens of appreciation for hosting ICSOBA delegates. This year the dishes were awarded to Paragominas bauxite mine, Alunorte alumina plant and Albras smelter.

The pictures documenting the Gala Dinner and the awards ceremony can be seen at the ICSoba website <https://www.icsoba.org/photographs-2018>.

The Best Paper Awards

At the end of the conference six papers were announced for the best paper award. The awards are dedicated to recognizing outstanding papers across the entire program. Four subjects were considered: bauxite and alumina, bauxite residue, carbon and electrolysis. The subject organizers of each stream: Robert LaMacchia and Andrey Panov (bauxite and alumina), Mathieu Arlettaz (carbon) and Vinko Potocnik (electrolysis) made their selections. Given the breadth, diversity and quality of the nominations, the job of picking winners was quite difficult. Two aluminium electrolysis papers were awarded due to the larger number of papers in this subject. The recipients are:

- ✓ BX09 - Digital Transformation Applied to Bauxite and Alumina Business System – BABS 4.0, Juliana Soares de Sousa, Israel Oliveira Rocha and Rodrigo Martins de Castro Travaux 47, Proceedings of the 36th International ICSoba Conference, 119-132.
- ✓ AA04 - Digital Maturity in Alumina Refining - Michael Barnes, Daniel Koffler and Cullen Bowels, Travaux 47, Proceedings of the 36th International ICSoba Conference, 241-254.
- ✓ BR05 - Development of Low-Carbon, High-Durability Concrete Using Bauxite Residue and Aluminium - Linda Therese Wiik, Harald Justnes, Hans Jørgen Roven, Terje F. Rønning, Mohsen Ben Haha, Christian Rosenkilde and Trond Furu, Travaux 47, Proceedings of the 36th International ICSoba Conference, 429-441.
- ✓ CB04 - Comparison of Pilot Anode Production and Testing Between Two Laboratories and Ability to Simulate Full Scale Anodes - Lorentz Petter Lossius, Christopher Kuhnt, Les Edwards, Hogne Linga and Bruno Rausch, Travaux 47, Proceedings of the 36th International ICSoba Conference, 531-544.
- ✓ AL10 - Thermal Behavior of Cathode Bottom Lining at CBA - Dagoberto Severo, Henrique dos Santos, Jefferson dos Santos and Fabio de Carvalho, Travaux 47, Proceedings of the 36th International ICSoba Conference, 693-706.
- ✓ AL21 - Fundamentals of Managing Spent Potlining (SPL), Stephan Broek and Harald Arnljot Øye, Travaux 47, Proceedings of the 36th International ICSoba Conference, 817-833.

Student Grants

Two student grants were offered this year from the ICSoba funds. The grants were given to Cairo Cesar Amorim Melo and Thayna Ferreira de Azevedo of the Universidade Federal do Este do Para, Brazil.

Congratulations!

Plant Visits

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.

Technical field trips took place on *1 November* to three different plants:

- *Albras smelter*
- *Alunorte alumina refinery*
- *Paragominas bauxite mine.*

In total, the number of visitors was 40, 40, and 5 respectively. The trip to Paragominas required a one-night stop at a local hotel.

Sponsors 2018/ 2019 and the Exhibitors

We worked hard to attract world class sponsors and exhibitors for this event and numerous companies responded; this is to our mutual benefit. ICSoba could not continue its mission without sponsors supporting the not-for-profit organization. We worked hard to attract world class sponsors and exhibitors for this event and numerous companies responded; this is to our mutual benefit. We would not have the conference without the support from **Hydro Brazil**, the host sponsor.

Other sponsors are:

Gold: **Hatch**.

Silver: **Fives, GEA Wiegand GmbH, Outotec, Solvay**.

Bronze: AKW Apparate und Verfahren, BOKELA, Claudius Peters Projects, Malvern Panalytical Brazil, MMD Mineral Sizing (South America), Nalco Water - An Ecolab Company, Otto Markert & Sohn, Quimica Brasileira, Sefar and SysCAD.

The conference attracted 12 exhibitors. Among the exhibitors at this conference we have: **AKW Apparate und Verfahren, Cytec Solvay Group, Claudius Peters Projects, Fives Solios, GEA Process Engineering SAS, GLAMA Maschinenbau, Malvern PANalytical, MMD, Norsk Hydro, Otto Markert & Gruppe, SEFAR and SysCAD.**

Thanks to our sponsors and exhibitors!

ICSoba 2018 Satisfaction Survey

Following the event, an online Belem conference satisfaction survey was carried out among the participants. The comprehensive results of the survey composed of 38 questions lead to the selected conclusions as follows:

- Response rate of 54% demonstrates the overall interest from delegates to ICSoba organization and conferences (vs 53% in 2016 and 62% in 2017).
- ICSoba DNA key elements (i.e. balanced upstream/midstream; rotating conference place, field trips) are overwhelmingly approved.
- Keynote session, technical quality and content, applicability, as well as innovative nature of the papers are well rated (all around 70%). Leveraging digital tools received 74% support.
- Producers were the most represented alongside with a sharp decrease from equipment and technology suppliers (from 39% last year to 20% in Belem).
- Registration process, staff support, and networking obtained one of the best ratings. Whova is seen as an additional help in this field and is overwhelmingly seen as useful or very useful (81%).
- Very good rating was obtained regarding organization, conference materials (paper bags) and payment process through ConfTool, followed by exhibition and field trips.
- Intensive use of social media and interaction with media partners, were suggested for improved visibility.
- Having a theme for the conference, organizing workshop or webinars received mixed reactions.
- Points for improvement are: conference logistics (microphone management) and ICSoba website.
- Forecast to attend the next year event in Krasnoyarsk is 56%.

UPCOMING EVENT: ICSoba 2019 in Krasnoyarsk, Russia 16 – 20 September 2019



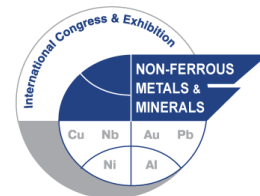
Organized by:



In cooperation with:



RUSAL



Rusal and Russia Aluminium Industry

Birth of Russian aluminium industry took place in 1932 with the creation of Volkhov aluminium smelter near Leningrad. Since that time, over 10 alumina refineries and 15 aluminium smelters have been built in USSR / CIS countries using domestic and imported raw materials. The unique feature of Russian aluminium industry is that the absence of high quality local bauxites and strategic reasons led to creation of unique technologies to process domestic low-grade bauxites and non-bauxitic raw materials such as nepheline, clays and alunite. The nepheline technology is waste-free, allowing converting all ore components to useful products like soda ash and cement. There are also developments to extract scandium oxide, gallium and vanadium pentoxide while processing bauxites.

Russian Aluminium Company, RUSAL is now a leading global aluminium producer of primary aluminium and alloys. In 2017, UC RUSAL accounted for approximately 5.8 % of global production of aluminium and 6.3 % of alumina. UC RUSAL employs 61 000 people in 20 countries across 5 continents. The Company's production chain is vertically integrated and begins at the bauxite and nepheline ore mines, then moves through the alumina refineries, the aluminium smelters and casting houses, the foil mills and ends at a packaging and wheel production centers.

One of the Company's main priorities is becoming a global leader in terms of aluminium production efficiency whilst still maintaining one of the lowest carbon footprints in the industry. To achieve this, UC RUSAL is investing in in-house R&D and is implementing RA-550 smelting technology and revolutionary inert anode technology, new technologies of alumina production and bauxite residue valorization. The Company is also developing new products, including new types of alloys and is upgrading its production facilities

Conference Organization

When it comes to successfully staging major events, ICSOBA's recent track record speaks for itself. In the past few years, the ICSOBA forum was the scene of five-day gatherings in various parts of the globe. The ICSOBA-2019 Conference and Exhibition is also geared up to exceed all our expectations. The 2019 conference of ICSOBA will take place in Krasnoyarsk, Russia and will be organized in cooperation with X International Congress and Exhibition Non-Ferrous Metals and Minerals (NMF; <http://www.nfmsib.com/>) The NMF's annual Congress & Exhibition unites four international forums, passing in Siberia (Russia) within 20 years: Conference and Exhibition Aluminium of Siberia, Conferences Gold of Siberia and Metallurgy of non-ferrous and rare metals and Forum Mineral and raw materials sources. This meeting also features an exhibition, workshop, excursions to the metallurgical plants of the Krasnoyarsk region. Some practical pieces of information are available for you below. For more information, please visit the website (<https://www.icsoba.org/icsoba2019>).

Krasnoyarsk Territory is one of the senior and major metallurgical regions of Siberia. Krasnoyarsk Territory is in the forefront of resources and minerals mining in the world, especially in such metals as copper, nickel, cobalt, aluminum, gold and platinum. Major projects on development resource base and deep minerals recycling are implemented in Krasnoyarsk region. Our congress is a platform for experts to discuss usage of scientific achievements, latest technologies, innovation materials, equipment operation.

Registrations

Conference registration is managed by ConfTool which is customized for ICSOBA 2019 Conference. The access to ConfTool is via ICSOBA website: <https://icsoba.org/icsoba2019>.

The exhibitors' registration is available on the NFM Congress website: www.nfmsib.com.

Registration fee information to be available in January-February 2019. ICSOBA (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.

Deadlines for registration:

| | |
|-----------|---|
| April 30 | for enjoying the low, early bird registration fee |
| August 20 | for booking a booth |
| August 1 | for registration with NFM business visa support |
| August 20 | for registration without business visa support, paper and booth |

Program of the Conference

Participant's registration: September 15: 16.00 - 20.00

September 16: 8.30 - 9.30

Lectures / Workshop: September 16

Congress & Exhibition: September 17 – 19

Field trips: September 20 (Friday)

Speaker Program:

- I. Workshop on Alumina production, Aluminium reduction technology, Casting of aluminium and alloys and Carbon materials by world recognized experts - 16 September.
- II. Sections within the joint ICSOBA - NFM program on 17 - 19 September:
 - Bauxite mining
 - Alumina refining
 - Bauxite residue
 - Aluminium reduction technology
 - Carbon materials
 - Casting, deformation and recycling
 - Additive technology

III. Round-Table Discussions

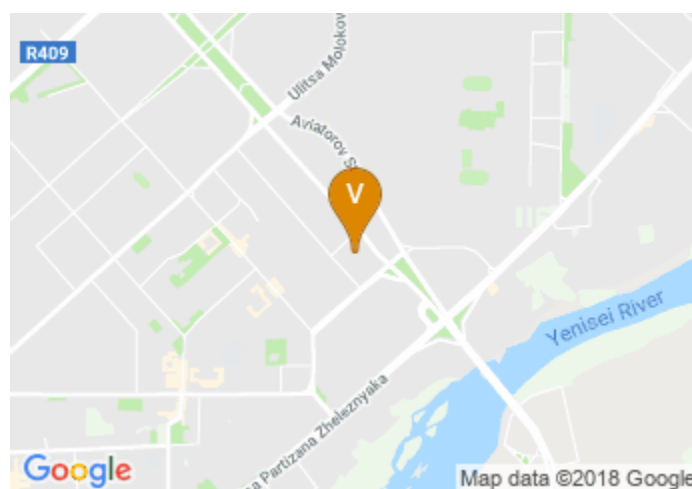
There will be additional sessions on mineral resources and metallurgy of other non-ferrous, rare and precious metals organized by NFM at the same time.

Venue of the Conference

International Congress & Exhibition annually take place in the beginning of September in the very heart of Russia - city of Krasnoyarsk. Its intensive program includes workshop of world-renowned lecturers, round table discussions, seminars and three conferences. The Congress participants get the knowledge of industrial potential of Krasnoyarsk krai, visiting metallurgy enterprises. In addition to formal activities participants have an opportunity to join the social program including visits to Krasnoyarsk krai sights, initiation into Siberians and knowing of Russian habits and nature.

The conference will take place in ***Siberia International Exhibition and Business Center*** that is ideally located 5 km from downtown Krasnoyarsk.

Aviatorov Street, 19, Krasnoyarsk, Krasnoyarskiy kray 660000 Russia





No rooms are set for ICSoba at the Siberia hotel. The rooms will be distributed on the first-come-first-served basis. Individual reservations may be requested directly using the hotel Email at:

info@siberiahotel.ru

Reservation department: +7 391 298-90-38

Please feel free to contact the hotel for making a reservation or other questions:

+7 391 298-90-50 and +7 391 298-90-51

Please mention that it is for ICSoba conference participant. The special rate for a standard single room is Rb (Russian Rubel). The price includes breakfast and internet. Other hotels are also available nearby. 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 (17 – 19 September). Please confirm your participation at the earliest.

Field Trips

The ICSoba-2019 program provides for visiting on Friday, 20 September:

- Achinsk alumina refinery
- Krasnoyarsk aluminium smelter (including eco Soderberg and foundry production)
- the Sayanogorsk aluminium smelter (RA-550, foundry production)



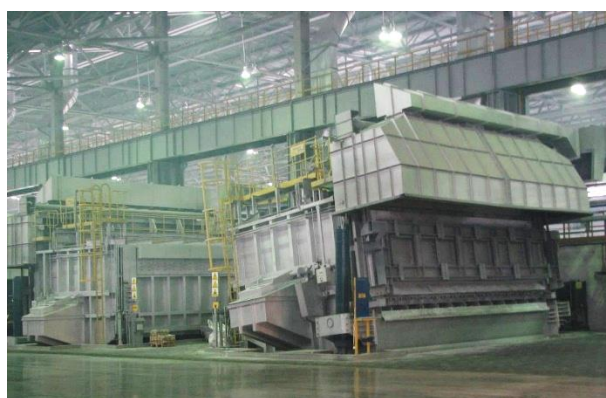
Achinsk Alumina Refinery



RA-550 pots



Khakass Aluminium Smelter



MECHATHERM Furnaces



ROCHOT Casting Line



HERTWICH Casting Line

Language

Presentations will be in English and Russian. The papers and presentations will be published in English and Russian. Live translation will accompany all sessions and events.

Visa Support

How to obtain a Russian business visa

To obtain **the business visa** to Russia you will need to receive the official invitation from the company-organizer (Light Metals Ltd.), which is issued by the Department of the Federal Migration Service of Russia. Light Metals Company will file a petition to the Department after that the Federal Migration Service will start preparing the invitation. This procedure takes **22 working days**, because the documents should be checked by the Ministry of Foreign Affairs of Russia.

To file the petition please send to the organizing committee the following:

- 1) Completed Visa form
- 2) Scanned copy of the main page of your passport,
- 3) Payment of registration fee and visa support fee (**30 euro per 1 participant**)

After the invitation is ready the organizing committee will send you the electronic version of it by e-mail. Then you should print it and apply for a business visa to the Embassy of Russia in your country. Please note that the official invitation does not guarantee you will be granted a visa. Organizing committee cannot send the letter to an embassy or consulate for you nor can we contact the embassy or consulate on your behalf. It is the sole responsibility of the participant to obtain the necessary paperwork for entry to Russia.

How to obtain a Russian tourist visa

To obtain the tourist visa you will need to receive the tourist voucher from any travel agency (Russian or foreign). It takes 1-2 days, and then you can apply for a visa to the embassy of Russia in your country.

Note! At applying for a tourist visa you should indicate that the aim of your travel is tourism. If you need the support of the organizing committee with getting the tourist voucher of the Russian travel agency, please send the following: 1) scanned copy of the main page of your passport, 2) Payment of registration fee and visa support fee (67 euro per 1 participant).

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.

ICSOBA MATTERS - Life of the Association

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

Election to the Board of Directors

The most important responsibility that we all have toward the association is to assure ICSOBA continuity and growth. ICSOBA is an international association of members and the members periodically elect the Board of Directors in the Annual Meeting. At the time of the 36th ICSOBA conference held in Belem (on 31 October in the evening) the election took place. Among the existing Board members Frank Feret, Andrey Panov and Michel Reverdy have been elected at the ICSOBA conference in 2014 in Zhengzhou, China for 2 + 2 years. Their four year's mandate come to the end with the conference in Belem. All three expressed interest in continuing their work for ICSOBA and were unanimously reelected for another term. Four other directors on the present Board (Claude Vanvoren, Matthieu Arlettaz, Houshang Alamdari and BS Pani) were elected in Quebec in 2016 and their remaining two-year mandate was confirmed. Viktor Mann, Technical Director for Rusal was nominated to become the 2019 ICSOBA President. President comes from the organization becoming the host sponsor of the annual event and thus provides increased visibility to both his company and to ICSOBA.

The Board of Directors is the executive body of ICSOBA and is composed of the Chairman, Vice Chairmen, Directors and Officers. The proposed structure is as follows:

| Who | Association | Position | E-mail Address |
|----------------------------|---------------------------|-------------------------------------|--|
| Viktor Mann | Rusal | President | viktor.mann@rusal.com |
| Dr Claude Vanvoren | C2V Consulting | Chairman | claud.vanvoren@icsoba.org |
| Dr Frank Feret | ICSOBA | Vice Chairman, CEO | frank.feret@icsoba.org |
| Dr Andrey Panov | Rusal | Vice Chairman, Secretary General | andrey.panov@icsoba.org |
| Michel Reverdy | Emirates Global Aluminium | Program Director | michel.reverdy@icsoba.org |
| Matthieu Arlettaz | R&D Carbon | Conference Management Director | matthieu.arlettaz@icsoba.org |
| Prof. Dr Houshang Alamdari | Laval University | Director | houshang.alamdari@icsoba.org |
| B.S. Pani | SPAN Resources | Director | bhavani.pani@icsoba.org |

The Directors jointly assure legal responsibility for the organization and have assigned duties.

Membership

ICSOBA 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”.

ICSOBA 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\$ 4200 |
| 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 ICSOBA vocation very well and we all are grateful for your continuing help. Without this help ICSOBA 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 ICSOBA Director. Contact emails are available at <https://www.icsoba.org/board-directors-offices>.

For the businesses that decided to become corporate members we thank you so much for your support of ICSOBA. We all are grateful for your continuing support because with it ICSOBA may carry on its mission. One cannot forget that ICSOBA is an international association of members and partnership with the industry enriches the society and active professionals and is a guarantee of ICSOBA continuity and growth. Once more many thanks.

The 2018/2019 Corporate Members are:



Already after the Belem conference EGA of the United Arab Emirates has become the 19th Corporate Member of ICSoba.

At ICSoba, the Board is constantly working on evolving ideas and schemes on how to provide special benefits to its corporate members over and above the few standard ones like receiving of regular NEWSLETTERS, position in the organization, discount in registration fees, preferential access to the past TRAVAUX volumes, etc. Two new initiatives were launched at the last 36th ICSoba conference in Belem:

[A] - **"Corporate Membership council"** was formed, through which the ICSOBA Board will constantly seek advice and suggestions regarding what more can be done to benefit corporate members. In Belem the first meeting of the council took place with the full ICSOBA Board. Currently there are 18 corporate members and the number is continuously growing. The present list of corporate members includes major Bauxite, Alumina, Aluminium producers, technology creators and service providers. Surely, the members are bound to benefit immensely in the long run by being members of this special global industry group.

As a corporate member, the companies can obtain access to specialized information to support their own technology development efforts.

[B] - **"ICSOBA platform for Industry-University cooperation for innovation"**: The second major initiative introduced in Belem was a special session at which all representatives of corporate members sit with ICSOBA Board and representatives of western Universities to discuss the government – industry sponsors of global research and technology developers. Professor Houshang Alamdari of Laval University and Director of the highly successful **Industry - Academia** collaboration program (REGAL in Quebec, Canada) organized this special session. The idea behind the session was to review technology development efforts in three selected counties.

The subjects discussed involved:

- (i) joint research programs
- (ii) availability of grants and funds for the same available from various industry and government and non- government programs
- (iii) corporate members' specific needs for globalizing their internal R&D efforts.

Website

Printed proceedings of past ICSOBA 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>. The Corporate Members will obtain access to the past proceedings.

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

Please note that the past NEWSLETTERS are currently available on the ICSOBA website.

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/381ht/id/1

Associated Organizations

The list of associated organizations can be found on the ICSOBA website at www.icsoba.org/about-us/associated-organizations. These organizations are: Aluminium Association of India, ABAL, AlCircle, Aluminium International Today, Aluminium Network, AZ-China, Brazil Mineral, China Nonferrous Metals Industry Association (CNIA), Chalco Zhengzhou R&D Center, International Aluminium Institute, International Aluminium Journal, Light Metal Age, Metal Bulletin, METALS - Open Access Metallurgy Journal, Minerals & Metals Review Online, Non-Ferrous Metals Siberia, Quartz Business Media, Red Mud Project.

In 2019 ICSOBA will closely collaborate with three Associated Organizations and be represented at the corresponding events:



www.icsoba.org; www.futurealuminiumforum.com

22nd - 23rd May 2019, Marriott Hotel, Warsaw, Poland

ICSoba's Executive Office



Requests for past proceedings and all inquiries sent to ICSoba, whether by email to info@icsoba.org or by phone to + 91 982 328 98 17, are addressed by Ms. Sudipta (Dipa) Chaudhuri in ICSoba's executive office, Nagpur, India.