

International Bauxite, Alumina & Aluminium Society (IBAAS)

国际铝土矿，氧化铝和原铝协会 (IBAAS)

Jointly with

Guiyang Aluminum & Magnesium Design Institute Co. Ltd. (GAMI)

(CHALIECO Guiyang Branch)

贵阳铝镁设计研究院有限公司 (GAMI)

(中铝国际贵阳分公司)



Presents

8th International IBAAS Conference and Exhibition

第八届IBAAS国际会展



**“Technological Advances in Alumina,
Aluminium Smelter, Downstream
Fabrication, Energy Conservation,
Environmental Protection and
Smart Manufacturing with
Special Reference to
China”**

**氧化铝 · 电解铝 · 铝加工 ·
节能环保及智能制造等技术进步-聚焦中国**

September 4-6, 2019

2019年9月4-6日

Renaissance Guiyang Hotel

贵阳万丽酒店

Guiyang, China

中国贵阳

IBAAS - GAMI 2019 PARTICIPATING COMPANIES

- Aditya Birla Science & Technology Co. Pvt. Ltd. (ABSTCPL), India
- AKW Apparate + Verfahren GmbH, Germany
- Alufer Mining, United Kingdom
- AICircle, Singapore
- Almatis Alumina Priv. Ltd., China
- Alumina Chemicals & Castables, India
- Amber Development, France
- Amity University, India
- Armando Alvares Penteado Foundation, Brazil
- Ashapura Group of Industries, India
- Asian Metals, China
- ATC, Germany
- BALCO, India
- Beijing Aladdin Zhongying Business Consulting Co. Ltd, China
- Bhoruka Fabcons Pvt. Ltd., India
- COBEX Group, Germany
- China Nonferrous Metal Processing Technology
- Cia. Brasileira de Alumínio and Metalex, Brazil
- Colt International BV, Netherlands
- CRU International Limited
- Dharti Industries Pvt Ltd, India
- FISmith, India
- HINDALCO, India
- HOESCH Metallurgie GmbH
- Honeywell Process Solutions, USA
- Hunan Kori Convertors Co. Ltd., China
- Hydro, Norway
- International Aluminium Institute (IAI), UK
- IHS Markit, Singapore
- IHS Markit, USA
- IMR Resources India Private Limited, India
- Jawaharlal Nehru Aluminium Research Development & Design Centre, India
- Japan Aluminium Association (JAA)
- Kenwalt Australia (KWA), USA
- Maestria Solution, Canada
- MAGMA Engineering Asia Pacific Pte. Ltd., India
- National Aluminium Company Ltd. (NALCO), India
- Outotec (Canada) Ltd.
- REEL Alesa, France
- RUSAL Engineering & Technology Centre, Ltd, Russia
- SAMI, China
- Sefar Filtration Solutions (Suzhou) Co. Ltd., China
- Shanghai Heat Transfer Equipment Co. Ltd., China
- Shandong Huayu Alloy Material Limited, China
- Shandong Hwapeng Precision Machinery Co. Ltd., China
- Sierra Mineral Holdings 1 Ltd (Vimetco), Sierra Leone
- STAS Inc., China
- SysCAD, Australia
- Unimark International
- University of São Paulo, Brazil
- University of Auckland, New Zealand
- Valbaur Minetech, India
- Vedanta Ltd., India
- Wuhan Special Vehicle Technology Engineering CO., Ltd., China
- Xinmi City Zhengxing Refractory Co., Ltd.
- Yuro Afriasia DMCC, UAE
- Zhengzhou Non-ferrous Metal Research Institute Co. Ltd of CHALCO, China

IBAAS-GAMI 2019 Sponsors, Participating Companies & Organizations

ASSOCIATED ORGANIZERS



中色科技股份有限公司
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China Nonferrous Metals Processing Technology Co. Ltd.



Jawaharlal Nehru Aluminium Research Development and Design Centre
(JNARDDC), India

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S E F A R



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Invitation

IBAAS and GAMI are pleased to jointly invite you to the 8th International IBAAS-GAMI Conference & Exhibition at the picturesque city of Guiyang, China from September 4 - 6, 2019.

The theme of the IBAAS-GAMI Conference is *“Technological Advances in Alumina, Aluminium Smelter, Downstream Fabrication, Energy Conservation, Environmental Protection and Smart Manufacturing with Special Reference to China”*.

The conference organizing committee has formulated a world class program focusing on key topics and issues in the bauxite, alumina, aluminium and aluminium downstream industry and secondary sectors with reference to China.

Best Regards,
IBAAS-GAMI Organizers

IBAAS-GAMI COMMITTEE

Patrons

- Mr. He Zhihui, President, CHALCO, China
- Mr. Lyu Weining, Executive Director, GAMI, China
- Dr. Anupam Agnihotri, Director, JNARDDC, India
- Mr. Bibhu Prasad Mishra, Head - McoE, Hindalco Industries Ltd, India
- Mr. Kamal Prakash, Director, Unimark International, India
- Mr. Yves Ocello, Director, Amber Development, France

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Convenor

- Dr. Ashok Nandi

Co - Convenor

- Mr. Guo Pu

Interesting Papers

We have received about 80 topics / abstracts on Bauxite, Alumina & Aluminium from all over the world for IBAAS-GAMI conference & Exhibition. Some of the Interesting Topics and Confirmed Speakers are as follows:

-  The Ever Changing World of Aluminium, *Ron Knapp, International Aluminium Institute (IAI), UK*
-  Global Bauxite, Alumina and Aluminium Market Outlook, *Yanchen Wang, CRU International Limited*
-  The Analysis of China's Aluminum Market, *Shi Fuliang, Beijing Aladdiny Zhongying Business Consulting Co. Ltd, China*
-  Indian Aluminium Industry: Moving Towards Bright Future!, *Anupam Agnihotri, JNARDDC (Aluminium R&D Centre), India*
-  Beneficiation Aspects of Bauxite, *Basudeb Datta, Sierra Mineral Holdings Ltd. (Vimetco), Sierra Leone*
-  Ranking of World Bauxite Mines, *Ashok Kumar Nandi, IBAAS, India*
-  Analysis on the Development Status, Export and Forecast of Bauxite Project in Guinea, *Huang He, China*
-  Development of high temperature Tube Digestion Technology for Bauxite, *Peters Horst, ATC, Germany*
-  Increased Flow Rate and Reduced Filtration Cost by Using Scale Retardant Filter Technology for Bayer Liquor Clarification, *Carter Luo, SEFAR, China*
-  Indian Bauxite Residue: Studies on Potential Resource for Rare Earth Elements, *Upendra Singh, JNARDDC, India*
-  Efficient Bauxite Residue Processing with East Coast Bauxite of India, *Abhijeet Bandi, HINDALCO, India*
-  Brief Discussion on the Development Trend of Chinese Alumina Industry in Future Years, *Bai Yingwei, GAMI, China*
-  The Summaries about Progress in Preparation of High Purity and Ultrafine $\alpha\text{-Al}_2\text{O}_3$, *Wang Ying, China*
-  Brief Discussion on Long-Distance Pipeline Transportation Design of Red Mud Slurry, *Kong Lianlian, China*
-  An Attempt of Combining Digestion and Evaporation in the Gibbsite Bayer Process, *Guoqiang Zeng, GAMI, China*
-  Study on the Effects of Different Process Conditions on the Thermal Equilibrium of 530kA Aluminum Reduction Cell Via ANSYS Method, *Ao Hongmin, GAMI, China*
-  STARprobe™: The New Standard for Measuring Critical Bath Properties, *Pascal Côté, STAS Inc.*
-  New Roof Ventilator Developments for Potroom Buildings and Anode Bake Buildings, *Niek Menting, Colt International BV, The Netherlands*
-  Benefits of Conversion from Amorphous to Graphitized Cathodes, *Peter Wang, Cobex Group, Germany*
-  Effect and Intelligent Solution of Beaker Jam and Elephant Leg Issues for Aluminium Reduction Pot, *Bo Hong, GAMI, China*

- ✚ Production Practice and Discussion of Special-Shaped Cathode Aluminium Reduction Cell, Wang Junwei, Zhengzhou Non-ferrous Metal Research Institute Co. Ltd. of CHALCO, China
- ✚ Analysis and Research of the Top Heat Dissipation of the Aluminum Electrolytic Cell, Wang Junwei, Zhengzhou Non-ferrous Metal Research Institute Co. Ltd. of CHALCO, China
- ✚ The Cathode & Cathode Lining Failure Effect to the Pot Life for Larger Capacity CWPB Pot, Liu Zheng, CHALIECO GAMI, China
- ✚ Full Process Precision Management Direct Production of 3N Metal on the Aluminium Reduction Pots with Full-process Precision Management, Chen Shanyong, ShanDong Huayu Alloy Material Limited, China
- ✚ Continuous Developments in Cathode Lining of Low Amperage Pots to Improve Pot Life and Energy Efficiency, Vibhav Upadhyay, HINDALCO, India
- ✚ Energy Efficiency Increase of RUSAL's Cells, Yuriy Avdeev, RUSAL Engineering & Technology Center, Ltd., Russia
- ✚ Millivolt Anodes - New Technology Opportunities for Better Pot Control, Benoit Verreault, Maestria Solution, Canada
- ✚ Use of Mathematical Modelling for the Aluminum Production of RUSAL Company, Korobko Vladimir, RUSAL Engineering & Technology Center Ltd., Russia
- ✚ Review and Prospect of Technology and Equipment Development of Metallurgical Carbon Industry in China, Xie Zhiqun, GAMI, China
- ✚ Development and Application of GP500 Energy Saving Cell, Xie Zhoujun, GAMI, China
- ✚ Design of 500 kA Large Aluminum Reduction Cells, Liu Zheng, GAMI, China
- ✚ Research on Intelligent Mobile Digital Assistant System for Aluminum Electrolysis, Tan Shanwei, GAMI, China
- ✚ One kind of Intelligent Breaking Control Device and Method for Aluminium Electrolysis Production, Chen Zhiyang, GAMI, China
- ✚ Alternate Options to Growth of Primary Aluminum Industry in India and Other Developing Countries, A.T. Mathew, Independent Consultant (Ex. HINDALCO), India
- ✚ Innovative Product Design and Robust Process Layout in Die Casting with Autonomous Engineering, Horst Bramann, MAGMA, Germany/ China
- ✚ Selection of Production Process Scheme for Aluminum Alloy Petroleum Drilling Pipe, Jia Yanjun, China Nonferrous Metal Processing Technology, China
- ✚ Development Status and Trend of Aluminum Alloy Melting and Casting Technology, He Xiangwen, China Nonferrous Metal Processing Technology, China
- ✚ Short Process Production Technology and Development Trend of Aluminum Sheet and Strip, Ding Hongbo, China Nonferrous Metal Processing Technology, China
- ✚ Various Grades of Wire-Rod Development, Anand Vijeta, BALCO, India
- ✚ Cleaning/ Reducing the Impurity of Aluminium Metal, Maneesh Srivastava, Amity University, India

For the complete list of topics, please write to info@ibaas.info.

Important Dates

Deadlines for Final Manuscript & Presentation

- Final manuscript in English and/or Chinese August 15, 2019
- Presentations in English and /or Chinese August 15, 2019
- *For young specialists and students, a special Poster Session will be organized to present their posters at the venue of conference.*
- *Best papers of the conference will be duly awarded by organizers.*

Post Conference Visits

Visits to Huajin Alumina Refinery, Huaren Smelter Plant and Chongqing Huaфон Aluminium Project have been organized by GAMI on 7th September, 2019. Interested delegates can contact info@ibaas.info and ht_di@chalieco.com.cn for further details. Maximum 30 delegates each for Alumina Refinery and Smelter Plant and another 30 delegates for the Downstream Plant of China will be allowed on the first come first serve and payment basis. Details for the same are given below:

- **Huajin Alumina Refinery:** Total capacity is 1600 kTPA, the 1st stream of 800 kTPA completed within 12 Months in 2015 (From engineering design to commissioning) and the 2nd stream of 800 kTPA completed within 16 Months (From engineering design to commissioning) in 2015. This is the most compact refinery in China (0.15 m²/T of alumina).
- **Guizhou Huaren Aluminium Smelter, Guizhou Huaren New Material Corporation Limited:** The Company has a pot-line of 368 numbers 500kA pots, adopting the GP500kA high amperage pot technology developed by GAMI, which have been put into operation in September, 2017.
- **Chongqing Huaфон Aluminium Corporation:** It is the second aluminium rolling plant of Huaфон Group. The design capacity of Chongqing Huaфон is 700,000 kTPA, and the production line of 200,000 kTPA was put into production in 2018 as the first phase. As the EPC contractor for Chongqing Huaфон project, CNPT have provided Plant Engineering Design and all main production equipment, including: Hot Rolling Mill, 6-Hi Cold Rolling Mill, 4-Hi Cold Rolling Mill, Rewinding Machine, Tension Leveler, Melting/Holding Furnace, Preheating Furnace, Annealing Furnace, OMR, etc.

Conference Information:

Venue & Accommodation:

Venue for the IBAAS-GAMI Conference is “[Renaissance Guiyang Hotel](#)”.

Contact details:

Renaissance Guiyang Hotel

Address: No. 8 Lincheng East Road, Jinyang New District
Guiyang, Guizhou 550081, China

Phone: +86 851 8555 8888; Website: <https://www.marriott.com/>



Hotel Tariff

Premier Rooms	Special Rates for IBAAS-GAMI 2019 Delegates	
	USD	RMB
Single Occupancy	89	600
Double Occupancies	89	600

Other Hotels

There are other hotel/accommodation available near the conference venue. For more details, please contact us on info@ibaas.info & ht_di@chalieco.com.cn.

Language

The language of the Conference is English and Chinese. Papers will be published in the Proceedings Volume in both the languages. All the Chinese papers will be translated in English. Arrangements are being made for simultaneous presentations in English and Chinese during the conference.

Proceedings

Selected papers will be published in the form of PROCEEDINGS and handed over in a Flash drive, which will be available at the time of the conference. All the presentations received before the due date of submission will be compiled and circulated during the conference.

Conference Fees

Please find below the fees for delegates, paper presenters and student/research scholar. Delegates from China and India can also pay in RMB and INR respectively.

Sr. No.	Participants	Organizational Fee		
		US\$	RMB	INR
1.	General Delegates	600	4,200	36,000
2.	Paper Presenters	300	2,100	18,000
3.	Students/Research scholar cum Paper/ Poster Presenter	200	1,400	12,000
4.	Accompanying Spouse	200	1,400	12,000

- ✓ All the payments in Indian Rupees will attract 18% GST.
- ✓ Delegate Fee includes Conference Materials, Lunches, Dinner and Tea/Coffee.

Fees for Visit to Refinery, Smelter Plant and Downstream Plant:

- (a) Huajin Alumina Refinery: \$ 50 per person (Excludes lunch)
- (b) Guizhou Huaren Aluminium Smelter/Guizhou Huaren New Material Corporation Limited: \$ 50 per person (Excludes lunch)
- (c) Chongqing Huafo Aluminium Corporation as Downstream Aluminium Facility:
 - (i) US\$100 per person for those ending the trip at Chongqing. Fee includes travelling expenses by high speed train and bus and lunch.
 - (ii) US\$150 per person for those ending the trip at Guiyang. Fee includes travelling expenses by high speed train and bus, lunch and packed dinner.

All the bus/train tickets will be organized by GAMI. Detail of visits and program are as follows:

[A] Huajin Alumina Refinery

- Approximate Distance from Hotel Renaissance Guiyang: 38Km
- Mode of Travel: Bus
- Departure Time from Hotel Renaissance Guiyang: 8:30 AM
- Arrival Time at Hotel Renaissance Guiyang: 12.00 Noon

[B] Guizhou Huaren Aluminium Smelter

- Approximate Distance from Hotel Renaissance Guiyang: 35Km
- Mode of Travel: Bus
- Departure Time from Hotel Renaissance Guiyang : 2:00 PM
- Arrival Time at Hotel Renaissance Guiyang: 6.00 PM

[C] Chongqing Huafo Aluminium Corporation as Downstream Aluminium Facility in China

- Approximate Distance from Guiyang: 450Km
- Nearest Town or City: Chongqing
- Mode of Travel: Train and Bus
- Departure Time from Hotel Renaissance Guiyang: 7:00 AM
- Arrival Time at Chongqing (after plant visit): 5:00 PM
- Likely Arrival Time at Guiyang (after plant visit): 9:00 PM

Sponsorship

By sponsoring this IBAAS-GAMI 2019 International Event, you will raise your company profile and gain unparalleled access to the key decision makers in this industry. You can choose from various sponsorship packages as shown below:

Packages for Sponsorships	Platinum	Gold	Silver	Chinese Culture Banquet	Lunch	Support
Amount - USD	30,000	25,000	20,000	20,000	15,000	10,000
Amount - RMB	210,000	175,000	140,000	140,000	105,000	70,000
Amount - INR + 18% GST	2,10,000	1,750,000	1,400,000	1,400,000	1,050,000	700,000
Presentation on the first day of the conference	30 min	25 min	20 min	Before banquet start	-	-
Other Benefits common to all packages	Company name and logo of sponsoring companies on IBAAS webpage with a link, background panel of hall, souvenir, projection during Tea Break					
Special Benefits	-			Company name on stand banner at banquet hall	Company name and logo on lunch coupon and banners at Lunch venue	-
Advertisement in the conference souvenir (booklet)	One Full page colour advertisement					
Free Delegates at conference	8	5	3	3	3	2
Chairman of session	One	-	-	-	-	-
Stall at Exhibition	One standard	One standard	-	-	-	-

Exhibition

At the venue of IBAAS - GAMI conference, exhibition is being organized showcasing the developments of aluminium industry in China and world over. Fully furnished aluminium framed stalls of 2m x 2m size would be available for interested companies. More than 300 delegates from China and abroad are expected to participate in this International mega event. The tariff for exhibition stall is as follows:

Sr.No.	Exhibition module	Tariff for 3 days conference		
		US\$	RMB	INR
1	1 stall	4,000	28,000	280,000
2	2 stalls	7,000	49,000	490,000
3	3 stalls	9,000	63,000	630,000

**The exhibitor will get two free delegates on registration of each stall.*

Advertisement

A Souvenir (booklet) will be published containing company profiles and advertisements. The tariff for advertising in the souvenir is as follows:

Advertisement tariff				
Sr. N.	Category	US\$	RMB	INR
1	Back Page Cover (Coloured)	2000	14,000	140,000
2	Front Inside Page (Coloured)	1600	11,200	112,000
3	Back Inside Page (Coloured)	1200	8,400	84,000
4	Full Page (Coloured)	800	5,600	56,000
5	Half Page (Coloured)	600	4,200	42,000
6	Black & White (Full page)	600	4,200	42,000

Mode of Payment and Communication

All the Chinese companies and delegates can pay delegate, sponsorship, advertisement and exhibition fees in RMB in the bank account of GAMI in China. While making payment, please specify: "IBAAS-GAMI Conference - 2019".

The detail of GAMI bank account in China is as follows:

RMB Account:

Beneficiary Name: Guiyang Aluminum Magnesium Design & Research Institute Corporation Limited

Beneficiary Account No.: 999000218710201

Account with Bank in China: China Merchants Bank Guiyang Dashizi Branch.

Companies outside China can make payments to the IBAAS India bank account by one of the following methods:

- ✦ By wire / Internet transfer to IBAAS Current Account No. 2162002100010474 of Punjab National Bank (Bharatnagar branch, Nagpur-440001, branch code 2162), SWIFT CODE: PUNBINBBNKW, RTGS/NEFT IFS code: PUNB0216200.
- ✦ By multicurrency cheque or demand draft in the name of "IBAAS" and send it by post to IBAAS, Row House A/5, Rajat Utsav II, Kachimet, Amravati Road, Nagpur-440033, India.

Important Note:

- ✦ *GST @18% extra will be applicable on Delegate fee, Sponsorship, Exhibition & Advertisement Fees for payments received in Indian currency.*
- ✦ *Please confirm your payment on e-mails to ht_di@chalieco.com.cn, info@ibaas.info and/or info.ibaas@gmail.com. Please contact us for further queries on payments.*

Contact Information

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ht_di@chalieco.com.cn

You are requested to send all materials related to Conference "IBAAS-GAMI 2019", to the email addresses shown above. Your participation in the Conference will be highly appreciated.

Organizing Committee
IBAAS - GAMI 2019



“Technological Advances in Alumina, Aluminium Smelter, Downstream Fabrication, Energy Conservation, Environmental Protection and Smart Manufacturing with Special Reference to China”

REGISTRATION FORM

Title-(Prof/Dr/Mr/Mrs/Ms)			
Name of the Participant			
Position			
Name of the Organization/Institute / Company / Industry			
Address			
City		State	
Zip Code		Country	
Email			
Telephone		Mobile No.	

Require Visa Support Letter, Please tick

Yes	No
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Paper Detail (For Authors only)

Paper Title	
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Payment Detail

Mode of Payment : Bank Transfer / Cheque / DD / Cash	
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Hotel Accommodation

Require Hotel	Yes	No
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Accommodation Choice, if any:

Post Conference Plant Visit, Please tick

Yes	No
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Date:

Signature: