



Deutsch-Brasilianische
Industrie- und Handelskammer
Câmara de Comércio e Indústria
Brasil-Alemanha

BRASILIEN
BRASILIANISCHE
BOTSCHAFT IN BERLIN

FAB
Fachvereinigung Auslandsbergbau
und internationale Rohstoffaktivitäten



INVITATION

December 14th & 15th , 2017

Strategic Minerals and Innovation in Brazil

A closer look on REE, Graphite, Tantalum,
Lithium and other strategic minerals in
Brazil and related technology options

The German Federation of international Mining and Mineral Resources (FAB, <http://fab-consulting.de/de/>), the Brazilian Embassy in Berlin (<http://berlin.itamaraty.gov.br/de/>) and the Competence Centre for Mineral Resources of the German Chamber of Commerce and Industry (AHK) in Brazil (<http://www.ahkbrasilien.com.br/bergbau/>) cordially invite you to participate in a workshop on current opportunities for innovation in the **Brazilian mining sector**, which will take place on **December 14th and 15th, 2017**.

The focus will be on minerals such as Rare Earth Elements, Graphite, Tantalum, Lithium and other strategic minerals and their increasing importance in a wide array of advanced industries. In this regard, the event will highlight the mining potential for strategic minerals in Brazil as well as opportunities for innovation in technology and processes associated with mining and the use of such minerals.

The event will take place right after the annual membership meeting of FAB. Members of FAB, representatives of the Brazilian and German Governments, representatives of research institutions and members of industry related associations and interested companies will meet for a day of active discussion and exchange on the above mentioned topics.

The program consists of presentations and discussions aiming at highlighting joint German-Brazilian relations in the spheres of mining and minerals and related innovation fields, with a view of supporting business opportunities. The event will provide a unique opportunity to network and exchange opinions between actors in the strategic minerals field in Brazil and Germany.

In detail, the following topics will be discussed:

- Minerals and mining markets in Brazil and elsewhere
- Importance of minerals within value chains
- Potential in Brazil and extent of the local value chain
- Innovation towards application and improvement of mining and beneficiation technologies in Brazil
- The role of government, industry and academia cooperation in accelerating innovation in the mineral sector
- Start-ups and innovation in the mining sector
- Service and finance within the mining and minerals sector

Please find the detailed preliminary program as follows:

PROGRAM

Strategic Minerals and Innovation in Brazil:

A closer look on REE, Graphite, Tantalum, Lithium and other strategic minerals in Brazil and related technology options

December 14/15, 2017 in Berlin

at the Embassy of the Federal Republic of Brazil in Berlin, Wallstraße 57, Ground Floor

Event Schedule: Dec 14th: 1:30 pm till 9.30 pm
Get Together starting 7:50 pm

Dec 15th: 9:00 am – 2:00 pm
Get Together starting 1:00 pm

Moderation: Mrs Brittany Arthur

01:30 pm **Welcome**

**Brazilian Embassy in
Berlin**

H.E., Ambassador Mario Vilalva

Fachvereinigung
Auslandsbergbau (**FAB**)

Dr Martin Wedig

I. Introductory & Overviews

01:40	Bundesministerium für Wirtschaft und Energie (BMWi)	<i>Andrea Jünemann</i> The German International Raw Materials Sourcing Policy (title tbc)
01:50	Germany Trade and Invest (gtai)	<i>Jenny Eberhardt</i> Data & Facts on Brazil and German Trade
02:00	German-Brazilian Chamber of Commerce (AHK Brazil)	<i>Thomas Timm</i> Greetings from the Competence Center for Mining and Mineral

		Resources in Brazil
02:10	UFF , Universidade Federal Fluminense	Marcos Flavio de Campos Rare earths: Resources and research in Brazil
02:30	Centers of Reference in Innovative Technologies (Fundação CERTI)	Prof. Carlos Alberto Schneider Structuring a Successful Rare Earth Value Chain in Brazil
02:50	Federation of German Industries (BDI)	Henry von Klencke The German Industry's Demand for Strategic Minerals – A BDI Perspective
03:10	Coffee Break and Networking	

II. Mining & Markets for REE, Graphene, Tin and Tantalum

03:40 pm	Brazil Ministry of Science, Technology, Innovation and Communication (MCTIC)	Marcio Martins Pimentel The Brazilian strategy on rare earth elements markets
04:00	K-UTEC	Tobias Pinske New High Yield Extraction Technology (HYE)
04:20	Brazilian Mineral Technology Center (CETEM)	Fernando Antonio Freitas Lins (tbc) Technologies for the Mining and Production of REE Concentrates
04:40	German-Brazilian Chamber of Commerce (AHK Brazil)	Alessandro Colucci Recent Developments in the Brazilian Mining Sector
05:00	CERITECH	Dr. Joerg Reichert

Smart Rare Earth – How to become
a producer without exploration and
mining efforts

05:20 Minas Gerais State
Development Company
(**CODEMIG**)

Marco Antonio Castello Branco
Projects on REE and Graphene –
Setting up a new industry in Brazil!

05:40 German Raw Materials
Agency **DERA/BGR**

Dr Herwig Marbler
Investigation of Tin and Tantalum Ore
Rondônia and development of
advanced processing methods

06:00 Coffee Break and Networking

III. Technology, Projects and Water Management

06:30 Institute for
Technological Research
(**IPT**)

**Prof. Fernando José Gomes
Landgraf**

Implementation and structuring of the
“National Science and Technology
Institute for Production of Rare Earth
Elements”

06:50 **Helmholtz** Institute
Freiberg

Philipp Büttner

GERRI goes Brazil: German-Brazilian
Resource Projects

07:10 **Fichtner** Water &
Transportation

Dr Bernd Vels

Efficient Water Management in Mining –
Tailing Ponds Remediation

07:30 pm **Flottweg SE**

Robert Klug

Mining in Brazil and Tailings
Dewatering

07:50 pm Get-together and Networking



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December 15th, 9 am to 2 pm

09:00 am **Welcome**

German-Brazilian
Chamber of Commerce
(**AHK Brazil**)

Alessandro Colucci

IV. Processing, Beneficiation and Funding

09:10 **Fraunhofer** Institute IPK

Prof. Dr. Eckhart Uhlmann

Best practices for international co-
operation Brazil-Germany

09:20 **SENAI**

Dr Joner Alves

Initiatives of the Brazilian Industry
System to support innovation in the
mineral processing chain

09:30 Technische Hochschule
Georg Agricola (**THGA**),
Bochum

Prof. Dr. Alfred Niski

Development of Business Models
and Market Research for REE in the
context of REGINA project

09:40 **Forschungszentrum
Jülich**

André Greif

Presentation title not disclosed yet

10:00 Technical University of
Clausthal

Prof. Dr.-Ing. André Carlos Silva

Development of a production chain
for REE

10:20 Minas Gerais Investment
and Trade Promotion
Agency **INDI**

Ricardo Machado Ruiz

Investment Fund for the Mineral
Industry



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10:40 am Coffee Break and Networking

V. REE Applications, Research and Recycling

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| 11:10 am | University of Duisburg | <i>Prof. Dr.-Ing. Rüdiger Deike</i>
Innovation and development of new sustainable technologies for recycling of industrial waste |
| 11:30 am | Fraunhofer Institute ISC | <i>Dr Andrea Gassmann</i>
Field work on REE permanent magnets – CLIENT II project REGINA |
| 11:50 am | Federal University of Santa Catarina UFSC | <i>Paulo Antônio Pereira Wendhausen</i>
Latest News on the binational REGINA Project |
| 12:10 am | Fraunhofer Institute IPK | <i>Dr.-Ing. Lukas Prasol</i>
Development of niobium carbide tools for turning and milling machining processes |
| 12:30 am | WEG Germany | <i>Wilmar Henning</i>
WEG's activities in rare earth element applications |
| 12:50 pm | Closing Remarks | <i>Dr Martin Wedig</i> |
- Get-together and Networking**



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EVENT SUMMARY

Key data	<ul style="list-style-type: none">• Date of event: Thursday, 14th and 15th December 2017,• Location: Embassy of Brazil in Berlin, Wallstraße 57, Ground Floor• Time: 1 pm – 9 pm at 14th Dec. and 9 am – 2 pm at 15th Dec.• FAB members please note that membership Meeting will start earlier and take place between 11 am – 1 pm at 14th Dec.
Participants	<ul style="list-style-type: none">• FAB- and AHK-Members• Guests from German Federal Ministries, Members of Parliament as well as Brazilian government representatives• Non-Member companies interested in the topics or providing presentations• Representatives of Brazilian Research organizations and companies
Format	<ul style="list-style-type: none">• Whole day event with various networking opportunities• a variety of different presentations of 20 minutes each can be expected

Please return the attached registration form latest at 24th November. We are looking forward to numerous participations and are available for any request.

With kind regards

Dr Martin Wedig Managing Director FAB mailto:martin.wedig@v-r-b.de T: + 49 (0)30 31 51 82 61	Alessandro Colucci Head of Competence Center of Mining and Minerals, AHK Brazil mailto:rohstoffe@ahkbrasil.com m T: +55 (11) 5187-5105	Bernardo Macke II. Secretary, Embassy Brazil, mailto:bernardo.macke@itamaraty.gov.br
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Registration form (please return latest until 28th Nov.)

Via fax/email to +49 (0)30 3151 8235 or b.moenkemeyer@v-r-b.de

Registration to FAB Membership Meeting¹

taking place in Berlin on December 14th, 2017, between 11am and 1pm.

I will participate yes no

Registration to Workshop Brazil²

taking place in Berlin on December 14th and 15th, 2017, I will participate

Workshop Day 1 yes no
(Presentation Blocks I.-III.)

Evening Reception yes no

Workshop Day 2 yes no
(Presentation Blocks IV. -V.)

Name:

Institution:

Email:

¹ FAB Members only, program follows with separate mailing

² The event is sponsored and free of charge