



Ouro Preto is a municipality in the state of Minas Gerais, Brazil, located in one of the main areas of the gold cycle. The Historical City of Ouro Preto was the first Brazilian site nominated as UNESCO World Heritage, in 1980. It was considered a State Heritage in 1933 and a National Monument in 1938. The city became known as an "open museum" preserving a large nucleus of essentially intact colonial houses, prestigious throughout Brazil and around the world. UNESCO emphasized the authenticity, integrity, and originality of its urban panorama, qualified as a work of the human genius. Its historical importance as the cradle of the Inconfidência Mineira (Minas Gerais Conspiracy – ended in 1789) and of a flourishing cultural pole, with its main religious monuments, the art, and architecture of artists of superior importance such as Aleijadinho (Antônio Francisco Lisboa) and Ataíde (Manuel da Costa Ataíde). Ouro Preto was one of the first mining cities to be emancipated. Nowadays, Ouro Preto is a city full of tourists and university students from UFOP.

The Federal University of Ouro Preto (UFOP) was created on August 21st

of 1969, from the junction of the centennial and traditional School of Pharmacy (created in 1839) and of the Mining School (founded in 1876). In 2000 was created the Center for Open and Distance Education (CEAD). UFOP offers postgraduate and undergraduate courses in the distance modality, covering 90 cities in Minas Gerais, three in Acre, one in Alagoas, one in Amapá, one in Espírito Santo, five in Pará, four in the state of São Paulo and eight in Bahia. UFOP has three campi being them in Ouro Preto, Mariana and in João Monlevade-MG. UFOP offers 42 undergraduate courses, 22 master's degree courses, 9 doctoral options and three distance learning specializations. Several alumni of UFOP occupy select positions in Brazil and in the world, in several areas of leadership with a meaningful presence in engineering. The University of Ouro Preto works in partnership with several national and international institutions, apart from developing responsible academic interaction with the communities where it develops its processes of research, teaching, and extension.



Accommodation

For accommodation please check the following website:
www.portaldohotel.com

Chairpersons:

Prof. Architect Dulce Maria Pereira
Prof. Dr. Jorge Luiz Brescia Murta
Dr. Júlio César Perin de Melo
Prof. Dr. Paulo Santos Assis

Conference secretariat

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Organized by



Ouro Preto, UFOP,
10th, 11th and 12th
April, 2018

www.pemeforbrics.com

1st INTERNATIONAL
CONGRESS
ON POLITICS,
ENERGY,
METALLURGY
AND
ENVIRONMENT



BRICS



The First International Congress on Politic, Energy, Metallurgy and Environment for BRICS - PEME for BRICS-2018 will be held at the Federal University of Ouro Preto, MG, (Brazil) from April 10th to 12th, 2018. PEME for BRICS, a series of conferences to be held once a year, is a Brazilian initiative.

The major objective of the 1st International Congress PEME for BRICS 2018 is to improve, in agreement with the declaration of Xiamen, “cooperation on science, technology, and innovation (STI) to forge synergy in tapping new growth momentum for our five economies and continue to address the development challenges we face.” It also aims to support the efforts and commitments to “promote green development and low-carbon economy, in the context of sustainable development and poverty eradication, enhance BRICS cooperation on climate change and expand green financing.

Among the purposes, this congress aims to create and sustain interest on Metallurgy by considering politics and energy fundamental pillars for the sustainable growth of such industries, with care for the environment and social and environmental responsibility.

Iron and steel production in the BRICS States has been growing steadily and is expected to reach 1.33 BTPA by 2025. Improving the capacity of development on steelmaking and reaching high productivity with low environmental and social impacts are national priorities for all BRICS' countries. The PEME conference for BRICS 2018 will be a meaningful opportunity to discuss and share knowledge about the potential and perspectives on CO2 conversion to produce biofuels achieving reduction of emissions from 37% to 90% in steelmaking industry.

With the participation of renowned academicians, experts from the industry, and politicians, PEME for BRICS-2018 is likely to be an excellent knowledge sharing platform supporting engineers, researchers in several areas, politicians and students to remain up-to-date with various current issues challenging BRICS cooperation in the different fields, expanding our people-to-people exchanges in order to promote development and enhancing mutual understanding, valuing our rich diversities.

Conference themes

PEME BRICS-2018 aims to provide forum for sharing relevant positions to the sciences & technology on Energy, Metallurgy and Environment, considering politics from the different national perspectives as well as from communitarian BRICS perspectives. National policies and state of the art of the knowledge on Metallurgy is one of the main issues of the 1st International Congress PEME for BRICS. Prevention, precaution, reduction of consumption of natural resources, mitigation and renaturalization, care with nature, socio-environmental impacts, eco-technologies as well as parameters of sustainability are among the themes.

The conference program will include technical paper presentations, integrating a plenary session steered by globally acknowledged experts. A special session, with significant student participation, is also planned on steel, politics, and research.

PEME for BRICS 2018 shall approach themes, such as Politics for Metallurgy industries, Efficient use of coal, Expansion of steelmaking, Energy, Solid Oxide Electrolysis Cells, Fischer Tropsch Synthesis, Synthetic biofuels, Reduction of emissions in steelmaking industries, Alternative energy for steelmaking industries; Clean Development Mechanisms; Fundamentals of iron and steelmaking; Raw materials and beneficiation; Agglomeration; Coking and auxiliary systems; Blast furnace ironmaking; Alternative iron making & pre-treatment; BOF and EAF steelmaking; Ladle metallurgy; Ingot and continuous casting; Modeling in iron and steelmaking; Clean steel technology; Emerging and sustainable iron & steelmaking and Refractories in iron and steelmaking, Transition energy-efficient processes and products.

PEME for BRICS is a contribution to increasing practical mutual beneficial cooperation on innovation and entrepreneurship to boost development with equity, inclusion and peace in our five countries, and in the global context.

Call for papers

Abstract on original and unpublished research work, not exceeding 300 words, is invited on different conference themes and beyond, from researchers engaged in academia, industry, R & D and design organizations. All manuscripts shall undergo peer review and published in a proceeding for distribution among all registered delegates.

Conference Program

10th April, Tuesday – Opening ceremony, Country lectures on politics, energy, metallurgy and environment. (Plenary sessions)

- Free debates on each of the themes
- Posters and oral presentations

11th April, Wednesday – Plenary sessions, Key lectures on the four themes.-Posters and oral presentations

12th April, Thursday – Plenary sessions, papers, concluding remarks and announcement of the next PEME for BRICS.

National/International

Prof. Dr. Rajendra N. Basu; Prof. Dr. Elisângela Leal; Prof. Dr. Antônio Vilela; Prof. Dr. N. S. Perov; Prof. Dr. Rafael Sartim; Prof. Dr. José Adilson de Castro; Prof. Dr. Sérgio Valdir Bajay; Prof. Dr. Kamal K. Pant; Prof. Dr. Niloy K. Nath; Prof. Dr. Ajay Kumar Shukla, Prof. Dra. Roberta Froes; Dra. Hellen Cristine Prata de Oliveira; Prof. Dra Alessandra Rodrigues Kozovits; Prof. Dr. Carlos Frederico Campos Assis; Dr. Guilherme Lizieiro Ruggio da Silva; Prof. Dr. Cláudio Batista Vieira; Prof. Dr. Rauf Hurman Eric.

Important dates

CONFERENCE: 10th to 12th April 2018

ABSTRACT SUBMISSION DEADLINE – 26th January 2018

SUBMISSION OF FULL TEXT – 28th February 2018

NOTIFICATION ACCEPTANCE OF FULL TEXT – 16th March 2018

REGISTRATION DEADLINE – 23rd March 2018

Tourism at Ouro Preto and Mariana – 13th April 2018 (100 people)



Weather in April

Autumn spreads from March to June and is the best time of the year to be in and around Ouro Preto. During the time the conference is held, the daytime temperature is expected around 18 to 25 °C; nights would be a little cooler, between 15 to 18 °C. Light woolen cloth is recommended. The probability of rain is around 30 % to 60 %; during the day sun is expected with a probability of 55 %.



How to reach Ouro Preto

Air connectivity to Ouro Preto is via Confins or Pampulha airports. Both, are located in the city of Belo Horizonte and are connected by bus to the bus station (Rodoviária) where there is transport to Ouro Preto. Passaro Verde is the bus company connecting the bus station in Belo Horizonte to Ouro Preto. From the bus station in Ouro Preto to Convention Centre or hotels transportation can be done by taxi. Website: https://wikitravel.org/en/Ouro_Preto