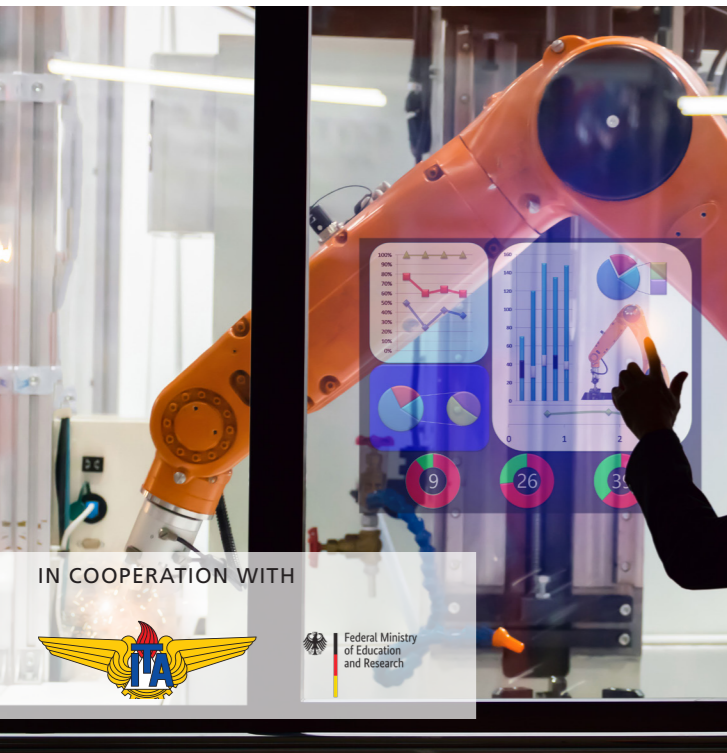


2nd International Industry Workshop on Advanced Manufacturing Technologies

An Event of the
Fraunhofer Project Center for
Advanced Manufacturing @ ITA

Sept. 5, 2019, São José dos Campos, Brazil



IN COOPERATION WITH



Federal Ministry
of Education
and Research

Advanced Manufacturing Technologies

ORGANIZERS

Fraunhofer IPK

The Fraunhofer Institute for Production Systems and Design Technology IPK is placed in Berlin, Germany. It offers application-oriented system solutions covering the whole spectrum of industrial usage – from product development, production processes, maintenance of investment goods, and product recycling to design and management of manufacturing companies.

Fraunhofer Project Center for Advanced Manufacturing @ ITA

The Fraunhofer Project Center for Advanced Manufacturing @ ITA, FPC@ITA in short, is a joint venture between the Technological Institute of Aeronautics (ITA) in São José dos Campos, Brazil, and Fraunhofer Institute for Production Systems and Design Technology IPK in Berlin, Germany. FPC@ITA is based within the facilities of the Competence Center for Manufacturing (CCM) at ITA and aims at the joint acquisition and implementation of industrial and publicly funded research, development and innovation (RD&I) projects between Fraunhofer IPK and ITA, through the supplementation of competences from both institutions. By combining Fraunhofer's latest global technologies and ITA's strengths in aerospace and mechanical engineering, FPC@ITA proactively addresses the needs of industry partners in Brazil.

ITA

The Technological Institute of Aeronautics (ITA) offers research and education in distinct engineering fields, including aerospace, aeronautical, civil, mechanical, computer and electronics engineering. It is located inside the Department of Aerospace Science & Technology (DCTA), which is considered one of the biggest research centers in Latin America. ITA was responsible for some major achievements in Brazil in the last 60 years, including the foundation of the Brazilian aeronautical industry (EMBRAER), the development of the Automotive Ethanol Program as well as the enhancement of the telecommunications industry (Telebrás).

BMBF

The Federal Ministry of Education and Research (BMBF) is responsible for promoting and setting policies in education, science and research in Germany. It is one of its objectives and tasks to support innovative projects and ideas in research by means of targeted funding programmes, also promoting the networking between German and international partners.

INFORMATION

Venue

Parque Tecnológico São José dos Campos
Avenida Doutor Altino Bondensan,
500 - Distrito de Eugênio de Melo
São José dos Campos – SP, CEP 12247-016, Brasil

A workshop for

Specialists and executives from manufacturing and R&D departments interested in advanced manufacturing technologies and international collaboration

Admission

The workshop languages are Portuguese and English. Admission to the event is free, but early registration is required due to limited number of participants.

Registration to: victor.andre.odebrecht@ipk.fraunhofer.de

Contact

Dr.-Ing. David Carlos Domingos
Phone: +49 30 39006-413
david.carlos.domingos@ipk.fraunhofer.de

Advanced Manufacturing Technologies

The 2nd International Industry Workshop on Advanced Manufacturing Technologies is an initiative of the Fraunhofer Institute for Production Systems and Design Technology IPK in Berlin, funded by the German Federal Ministry of Education and Research (BMFB) and supported by the Technological Institute of Aeronautics (ITA) in São José dos Campos, Brazil. This workshop aims to foster R&D partnerships and strategic cooperation between academia and industry in global markets. The workshop intends to present the latest international technology trends for the Brazilian industry in the field of advanced manufacturing and also to demonstrate practical project examples and success stories in terms of international initiatives in the fields of additive manufacturing, digitalization and automation, among others. The main objective of this event is to promote a discussion about strategic technological topics in order to identify opportunities and trigger joint RD&I projects (Brazil-Germany). Among the speakers from both countries are industry/academia representatives, members of associations and specialists on funding and incentive programs for R&D activities. We are looking forward to welcoming you at the Second International Industry Workshop on Advanced Manufacturing Technologies and to discussing business opportunities with you.

PROGRAM
THURSDAY, SEPTEMBER 5

Welcome and Introduction

- 09:00 **Official Opening of the Workshop**
Mr. Felicio Ramuth, Mayor of São José dos Campos (tbc)
Mr. Marco Antônio Raupp, General Director of the Technology Park in São José dos Campos (tbc)
Prof. Dr. Jefferson de Oliveira Gomes, Professor at ITA and President of FPC@ITA
- 09:30 **Introduction to Fraunhofer in the context of the German Innovation System**
Dr.-Ing. David Domingos, Fraunhofer IPK

Panel 1: Automation and Advanced Manufacturing

- Moderator: tbc
- 09:40 **Innovative Industrie 4.0 Project Cases in the Brazilian Context**
Dr. Renan Bonnard, SENAI Innovation Institute in Embedded Systems
- 10:00 **Trends in Manufacturing Technologies - Enabling lower costs or shorter processing times**
Dr.-Ing. Sascha Reinkober, Fraunhofer IPK
- 10:20 **Collaborative Robotics: Trends, Integration and Standards**
Prof. Wesley Oliveira, ITA
- 10:40 **Questions and Discussions**
- 11:10 **Coffee Break**

Panel 2: Advanced Materials and Additive Manufacturing

- Moderator: tbc
- 11:40 **Development of New Cast Iron Alloys at Tupy Foundry**
Dr. Carlos Cabezas, TUPY
- 12:00 **Additive Manufacturing at Gerdau**
Mr. Christian Santos, Gerdau
- 12:20 **Polyolefin in Additive Manufacturing**
Mr. Alexandre da Luz, Braskem
- 12:40 **Questions and Discussions**
- 13:10 **Lunch Break**

Panel 3: International Cooperation in i4.0

- Moderator: Mr. Alberto Marques Filho, Secretary of Innovation and Economic Development São José dos Campos
- 14:10 **Has Brazil already declared technological independence?**
Prof. Dr. Ronnie Rego, ITA
- 14:40 **Industry 4.0 as a trigger for International Cooperation – an engineering perspective**
Mr. Johannes Klingberg, VDI Brazil
- 15:00 **Industry 4.0: brief comparative analysis between the scenarios Brazil and other countries**
Mr. Horacio Aragonês Forjaz, FAPESP
- 15:20 **Questions and Discussions**
- 15:50 **Coffee Break**

Panel 4: Digitalization and IIOT

- Moderator: tbc
- 16:20 **The Digital Enterprise Era**
Mr. José Borges Frias Junior, Siemens
- 16:40 **EMBRAER - Digitalization Path**
Mr. Antonio Carmesini, EMBRAER
- 17:00 **Megatrends & Mobility Transformation**
Mr. Emmanuel Hédouin, PSA
- 17:20 **Questions and Discussions**
- 17:50 **Closing Words**
Dr.-Ing. David Domingos, Fraunhofer IPK
Prof. Dr. Ronnie Rego, ITA
- 18:00 **Get together**
All participants are invited, Technological Park
- 20:00 **End of event**

