



INVITED LECTURES

- Simposya:** 4 - ENERGIA E CIÊNCIAS TÉRMICAS / Energy and Thermal Sciences
Authors: Rodrigo Corrêa da Silva - Brandenburg University of Technology Cottbus
Title: On the development of oxy-coal combustion technology in response to environmental challenges
- Simposya:** 9 - MECATRÔNICA, AUTOMAÇÃO, CONTROLE E METROLOGIA / Mechatronics, Automation, Control and Metrology
Authors: Prof. Teodiano Freire Bastos - UFES
Title: Robotic Wheelchair: Modeling, Control and Interfaces (Commands based on blink, eyeball movement, head movement and brain signals)
- Simposya:** 1 - BIOENGENHARIA / Bioengineering
Authors: Prof. Sabina Gheduzzi
Title: Quantitative assessment of fracture healing using ultrasound
- Simposya:** 3 - MECÂNICA COMPUTACIONAL / Computational Mechanics
Authors: Fernando Alves Rochinha(COPPE)
Title: Uncertainty Quantification in Flow-Structures Interaction
- Simposya:** 7 - MECÂNICA DOS SÓLIDOS E DINÂMICA / Solid Mechanics and Dynamics
Authors: Edwin Kreuzer
Title: Dynamics and Control of Nonlinear Engineering Systems - Theory and Experiments
- Simposya:** 9 - MECATRÔNICA, AUTOMAÇÃO, CONTROLE E METROLOGIA / Mechatronics, Automation, Control and Metrology
Authors: Ricardo Carelli - Argentina
Title: Autonomous Vehicles in Precision Agriculture
- Simposya:** 8 - MATERIAIS E ENGENHARIA DE FABRICAÇÃO / Materials and Manufacturing Engineering
Authors: Aloisio Nelmo Klein - UFSC
Title: Development of dry self lubricating sintered steels for solid lubrication in mechanical engineering
- Simposya:** 16 - ENGENHARIA AEROESPACIAL / Aerospace Engineering
Authors: Petrônio Noronha de Souza
Title: The Brazilian Space Program: activities of aerospace engineering and ongoing projects.

- Simposya:** 1 - BIOENGENHARIA / Bioengineering
Authors: Pietro Favia - Univ. of Bari, Italy
Title: Plasma Processes for Biomaterial and Life Sciences
- Simposya:** 7 - MECÂNICA DOS SÓLIDOS E DINÂMICA / Solid Mechanics and Dynamics
Authors: Jorge A. C Ambrósio
Title: Modeling and Analysis of Engineering Systems Using Multibody Dynamics Methods: Applications to Vehicle Dynamics and to Biomechanics
- Simposya:** 15 - FRATURA, FADIGA E INTEGRIDADE ESTRUTURAL / Fracture, Fatigue and Structural Integrity
Authors: Leszek Adam Dobrzanski
Title: TRIP & TWIP mechanisms importance for the fracture counteraction in high- manganese austenitic steels".
- Simposya:** 8 - MATERIAIS E ENGENHARIA DE FABRICAÇÃO / Materials and Manufacturing Engineering
Authors: Mark J. Jackson - EUA
Title: The future of machining research in mechanical engineering
- Simposya:** 6 - MECÂNICA DOS FLUIDOS E REOLOGIA / Fluids Mechanics and Rheology
Authors: Prof. Paulo R de Souza Mendes
Title: Modeling the mechanical behaviour of gels slurries...
- Simposya:** 12 - CAX E ENGENHARIA DO PRODUTO / CAX and Product Engineering
Authors: Ibrahim Zeid
Title: CAD/CAM Present and Future: What is the Next Breakthrough?
- Simposya:** 5 - EDUCAÇÃO NA ENGENHARIA / Enginneering Education
Authors: Helcio - UFRJ
Title: O Processo de avaliação da CAPES para os programas de pós-graduação no Brasil
- Simposya:** 11 - REFRIGERAÇÃO, AR CONDICIONADO E VENTILAÇÃO / Refrigeration, Air Conditioning and Ventilation
Authors: Ministério do Meio Ambiente - Brasil
Title: PBH - Brazilian Strategy for HCFCs extinction
- Simposya:** 3 - MECÂNICA COMPUTACIONAL / Computational Mechanics
Authors: Stefan Hiermaier
Title: Characterization and Simulation of High Strain Rate and Shock Loaded Materials.
- Simposya:** 6 - MECÂNICA DOS FLUIDOS E REOLOGIA / Fluids Mechanics and Rheology
Authors: Dieter Mewes
Title: "Optical and Tomographical Methods for Visualization of Single and Multiphase Flow"
- Simposya:** 5 - EDUCAÇÃO NA ENGENHARIA / Enginneering Education
Authors: Benedito de Giacomo -EESC
Title: Learning dependency on Student, Lecturer and Teaching.

Simposya: 4 - ENERGIA E CIÊNCIAS TÉRMICAS / Energy and Thermal Sciences

Authors: Jose R. Simoes Moreira

Title: Trigeneration systems and distributed generation

Simposya: COBEM 2011

Authors: ALBERTO FONTES – PETROBRAS

Title: Title:"Biofuels -Trends, Contribution to Sustainable Development of the Planet and successful track record in Brazil and PETROBRAS"

Simposya: COBEM 2011

Authors: DR. CARLOS HENRIQUE MARIZ

Title: Title: "Natural Disasters in Japan: its impact on both worldwide and national nuclear industry"

Simposya: COBEM 2011

Authors: MILES REDFERN - ELECTRIC VEHICLE

Title: Title: "The Impact of a Significant Move to Electric Vehicles on the Electrical Power Networks"