

# ENDE 2012

THE 17<sup>th</sup>  
INTERNATIONAL WORKSHOP  
ON ELECTROMAGNETIC  
NONDESTRUCTIVE EVALUATION

17 – 20 JUNE 2012  
RIO DE JANEIRO, BRAZIL

## ABOUT RIO DE JANEIRO

The Marvelous City displays a unique blend of contrasts: a bustling metropolis surrounded by beautiful mountain ranges, rain forests and wetlands. Twenty three international and national airlines link Rio de Janeiro to the main capitals in the world. Copacabana Beach is one of the most famous and also one of the most lively beaches in the world with thousands of visitors flocking to its 6 kilometers, located in front of the black and white wavy mosaics on Avenida Atlântica. The area is busy both day and night and lined with shops, bars, restaurants and hotels. The metropolis shows some world recognized icons as the Statue of Christ Redeemer at the top of Corcovado Mountain overlooking the city, which provides Rio's greatest view.



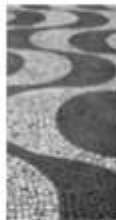
[www.rioguiaoficial.com.br/en/](http://www.rioguiaoficial.com.br/en/)



## REGISTRATION

The registration fee per participant, including presentation of one paper, welcome party, conference dinner, coffee breaks, lunches, participation in related events and proceeding is US\$ 700 before March 30th 2012 and US\$ 750 after this date. Extra fee for presentation of additional paper is US\$ 50.

Methods of payment will be available soon on our website.



## CORRESPONDENCE

Metallurgy and Materials Department  
Federal University of Rio de Janeiro  
Ilha do Fundão, Center of Technology  
PO BOX 68505 CEP 21941-972  
FAX: (55) (21) -2290-1615  
Phone: (55) (21) 25628500  
Email: [ende2012@metalmat.ufrj.br](mailto:ende2012@metalmat.ufrj.br)  
Web Site: <http://ende2012.metalmat.ufrj.br>

## CONFERENCE VENUE

The workshop will be held at the Windsor Atlantica Hotel, at Copacabana Beach, Avenida Atlântica, 1020 Rio de Janeiro - RJ, 22010-000

This hotel is located 26 kilometers from Rio de Janeiro International Airport, and is accessible via a State Expressway.

Tourism Agent  
JAX Events & Tours is a Travel & Events Agency.  
<http://www.jaxtours.com.br>  
Rua Visconde de Pirajá 156/408, Ipanema,  
Rio de Janeiro - RJ, 22410-000  
(55)(21)2267-5070

Hotel Accommodation in Rio de Janeiro, pick-up and drop airport/hotel to the conference venue, individual and group conducted tours

## WORKING LANGUAGE

English is the official language of the workshop and will be used for all printed materials, presentation and discussions

## ACKNOWLEDGEMENTS

National Council for Scientific and Technological Development

Foundation for Research Support of Rio de Janeiro

Coordination for Education of Graduated Personnel



# ENDE 2012

THE 17<sup>th</sup>  
INTERNATIONAL WORKSHOP  
ON ELECTROMAGNETIC  
NONDESTRUCTIVE EVALUATION

# First call for Papers



# ENDE 2012

THE 17<sup>th</sup>  
INTERNATIONAL WORKSHOP  
ON ELECTROMAGNETIC  
NONDESTRUCTIVE EVALUATION

17 – 20 JUNE 2012  
RIO DE JANEIRO, BRAZIL

Organized by:



Associação Brasileira de Ensaios  
Não Destrutivos e Inspeção

Brazilian Society for Nondestructive  
Testing and Inspection



Federal University of  
Rio de Janeiro

17 – 20 JUNE 2012  
RIO DE JANEIRO, BRAZIL

## ENDE STANDING COMMITTEE MEMBERS

I. Altpeter GERMANY	J. Pavo HUNGARY
J. Bowler USA	G. Pichenot FRANCE
N. Bowler USA	B.P.C. Rao INDIA
T. Chady POLAND	J.M.A. Rebello, BRAZIL
Z. Chen CHINA	G.Rubinacci ITALY
D. Jiles UK	S.J. Song KOREA
J. Knopp USA	T. Takagi JAPAN
F. Kojima JAPAN	A.Tamburrino ITALY
D.Lesselier FRANCE	L.Udpa USA
K. Miya JAPAN	S.Udpa USA
G.Z. Ni CHINA	

## LOCAL ORGANIZING COMMITTEE

João M. A. Rebello – Chairman (jmarcos@metalmat.ufrj.br)  
Antonio. C. O. Bruno - Co- Chairman (acbruno@puc-rio.br)

R. L.Sommer, M.C.L.Areiza, C. Camerini, J.P.von der Weid,  
R.L. Padovese, R. Carneval, L.L.Gonçalves, T.R. Strohaecker.

## IMPORTANT DATES

February 15th, 2012 - Deadline for abstract submission

March 10th, 2012 - Notification of abstracts acceptance to Authors

March 30th, 2012 - Deadline for early registration and payment with reduced fee

June 20th, 2012 - Deadline for full paper submission on site

## OBJECTIVES

This will be the 17th in a series of international workshops. Its aim is to bring together engineers and scientists from universities, research institutions and industry who are active in research, development and industrial applications of Electromagnetic Nondestructive Evaluation.

## HISTORY OF ENDE WORKSHOP

ENDE workshop is an important event for all scientists with interests in non-destructive testing. The first workshop took place in 1995 in London UK, and has been followed by workshops held in various parts of the world as detailed below:

	ENDE 1995, London, United Kingdom
	ENDE 1996, Tokyo, Japan
	ENDE 1997, Reggio Calabria, Italy
	ENDE 1998, Chatou, France
	ENDE 1999, Des Moines, United States
	ENDE 2000, Budapest, Hungary
	ENDE 2001, Kobe, Japan
	ENDE 2002, Saarbrücken, Germany
	ENDE 2003, Paris, France
	ENDE 2004, East Lansing, United States
	ENDE 2006, Iwate, Japan
	ENDE 2007, Cardiff, United Kingdom
	ENDE 2008, Seoul, Korea
	ENDE 2009, Dayton, United States
	ENDE 2010, Szczecin, Poland
	ENDE 2011, Chennai, India
	ENDE 2012, Rio de Janeiro, Brazil

## TOPICS

As in previous ENDE workshops, the programme will be comprised of invited lectures by prominent, academic and industrial experts and contributed oral presentations on:

- New developments in electromagnetic NDE
- Characterization of materials
- Advanced sensors and their novel industrial applications of NDE
- Analytical and numerical modeling of electromagnetic phenomena
- Solutions to NDE inverse problems
- NDE of cracks
- NDE of residual internal stresses, phase transformations, and microstructures such as precipitation, voids, vacancies and interstitials
- Biomedical applications of electromagnetic NDE

## EXTENDED ABSTRACTS / PROCEEDINGS

Authors are invited to submit by e-mail (ende2012@metalmat.ufrj.br) unpublished Extended Abstracts, having one or maximum two pages by February 15th, 2012 to be included in the workshop proceedings. The template of the paper can be uploaded from <http://ende2012.metalmat.ufrj.br/template ENDE2012.doc>.

Authors of the accepted papers will be encouraged to submit full length papers for peer review and inclusion in a special issue of 'Studies in Applied Electromagnetics and Mechanics', though a publication of IOS Press.

## FURTHER INFORMATION

The workshop is jointly organized by LNDC, Non Destructive Testing, Corrosion and Welding Laboratory – UFRJ ([www.metalmat.ufrj.br/Indc/](http://www.metalmat.ufrj.br/Indc/)) and ABENDI, Brazilian Society for Nondestructive Testing and Inspection ([www.abendi.org.br](http://www.abendi.org.br)).

LNDC is engaged in conducting based multidisciplinary scientific research directed towards development of advanced NDE techniques for defects detection and materials characterization. ABENDI is a NGO supported by Brazilian Companies whose focus is on the certification and training of people in NDT Evaluation and Inspection. Further information about the Workshop will be provided on the web page and sent by email. In order to be included in the conference mailing list, please register on the web page: <http://ende2012.metalmat.ufrj.br/registration>