

CIMI2010 - Metrology and Industry International Conference  
Porto, 17 - 19 March 2010

### A Internet ao serviço da Metrologia: um espaço na Web de partilha de informações relacionadas com a Ciência da Medição

An Internet tool for Metrology: a  
web space for sharing information  
related to the Science of  
Measurement

Paulo Cabral + Soraia Santos  
IEP - Instituto Electrotécnico Português  
Laboratório de Metrologia e Ensaios

## IEP Presentation

- Portuguese Electrotechnical Institute
- Created in September 1981
- Private law, non-profit, independent organisation
- To promote companies Quality and Competitiveness through standardization, quality assessment and product innovation

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## IEP Presentation

- Associates
  - **ANIMEE**  
Portuguese Association of the Electrical and Electronic Companies
  - **edp**  
Energy Supplier
  - **Portugal Telecom**  
Global telecom operator
- The ownership is distributed so that the *producer* and *consumer* segments have the same weight

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## Main working domains

- Standardization
- Electrical product testing and certification
- Metrology
- Inspection
- Innovation and business processes consulting
- Energy efficiency
- Technical training and personnel certification

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## Testing laboratories

- **Electrical products**
  - Low-voltage switchgear
  - Luminaires
  - Household appliances
  - Electronic products
  - Human exposure to EMF
- **Electromagnetic Compatibility**
  - Emission
  - Immunity

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## Testing laboratories

- **Environmental testing**
  - Temperature
  - Humidity
  - Climatic sequence
  - Air pressure
  - Vibration
  - Shock
  - Salt mist
  - Artificial rain
  - Dust
  - etc.

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## Testing laboratories

### ● Acoustics

- Environmental noise
- Equipment generated noise
- Workers exposure to noise
- Strategic noise mapping
- Building acoustics

### ● Human vibration exposure

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## Testing laboratories

### ● Optical Fibres

- Environmental testing
- Fibre and cable testing
- Site and link certification
- Research & Development

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## Metrology laboratories

### ● Electrical standards

- from DC to microwave

### ● Time and Frequency

### ● Temperature and Humidity

### ● Optics

### ● Mechanics

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## Accreditations



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## International recognitions



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## Notified Body 0876



### ● LVD - Low Voltage

- 2006/95/EC (former 73/23/EEC)

### ● EMC - Electromagnetic Compatibility

- 2004/108/EC (former 89/336/EC)

### ● Machinery

- 2006/42/EC

### ● Lifts

- 95/16/EC



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# Metrologia na internet Metrology in the web

Metrologia: uma ciência muito antiga, com muita informação publicada, mas muito dispersa  
Metrology: a very ancient science, with lots of published information, but very sparse

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## Um fórum sobre Metrologia? A Metrology forum?

- Primeiro estranha-se, depois entranha-se....
- First you find it strange, then you can not live without it....

Fernando Pessoa, 1928  
Slogan para a Coca-Cola™

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## Objectivos Purpose

- Esclarecer dúvidas técnicas
- Technical help
- Partilhar informação
- Information sharing
- "Comunidade virtual" de pessoas com interesses comuns
- "Virtual community" of people with common interests

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## SPMet – Sociedade Portuguesa de Metrologia Portuguese Metrology Society

APRESENTAÇÃO  
ORGANIZAÇÃO  
METROLOGIA  
EVENTOS  
PUBLICAÇÕES  
CONTACTOS  
FICHA DE INSCRIÇÃO  
BOLETIM  
LIGAÇÕES  
FORUM  
MAPA

**CONTACTE-NOS**

Secretariado da Direcção  
Av. do Brasil, 303  
1700-005 Luboa  
POBOX 101  
161-001 - 1716-843 010  
Fax + 351 - 218 843 010  
email: spmet@spmet.pt

ACTUALIZADO DE 2008-09-16  
ACTIVIDADE DE INVESTIGAÇÃO  
ORGANIZADA EM COOPERAÇÃO COM O ISEP

<http://www.spmet.pt> ou <http://metrologia.no.sapo.pt>

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## Fórum Metrologia & Calibração Metrology & Calibration Forum

[ Fórum Metrologia & Calibração ]

SPMet  
Sociedade Portuguesa de Metrologia

CIM2010  
Congresso Internacional de Metrologia

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**Fórum Metrologia & Calibração**  
Metrology & Calibration Forum



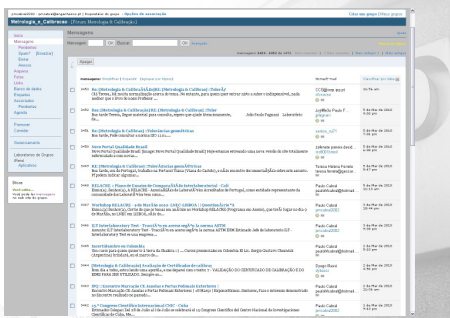
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**Áreas do fórum**  
Forum areas

- Mensagens
- Arquivos
- Fotos
- Ligações
- Bases de dados
- Posts
- Files
- Photos
- Links
- Databases

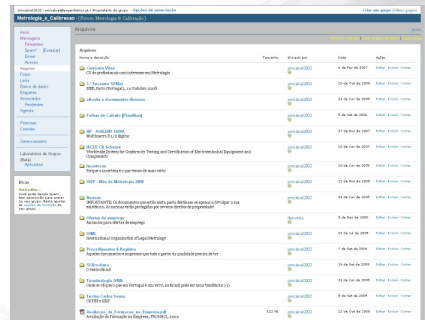
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**Mensagens**  
Posts



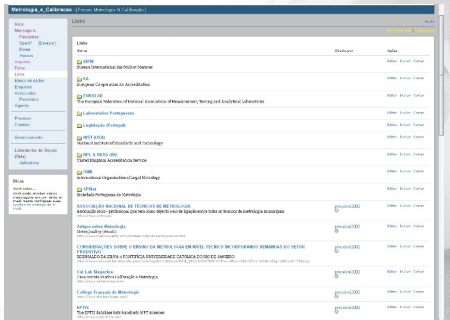
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**Arquivos**  
Files



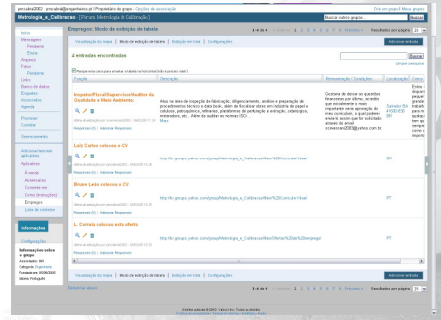
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**Ligações**  
Links



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**Empregos**  
Jobs



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## Alguns indicadores Some data

N.º de participantes Number of participants	<b>996</b>
N.º total de mensagens Total number of posts	<b>3 483</b>
Países Countries	Portugal, Brasil, Espanha, Alemanha, Dinamarca, Argentina, México, Chile, Venezuela, Angola, Nova Zelândia, etc.

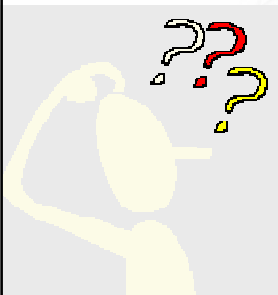
2010-03-16

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1.º Encontro de Metrologistas Ibéricos  
1st Iberian Metrologists Meeting

## Questões?... Questions?...



No man really becomes a fool  
until he stops asking questions

Charles P. Steinmetz

Obrigado pela atenção!  
Thank you for your attention!

Instituto Electrotécnico Português  
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