



# ICMET

# NEWS

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## SCIENTIFIC EVENTS

**10 March 2010**

Panel: "Electromagnetic Compatibility in the National Power Grid"

Bucharest, Romania

**16-19 March 2010**

"The International Salon of Research, Innovation and Inventions PROINVENT 2010"

Cluj-Napoca, Romania

**20 April 2010**

Panel: "Electromagnetic and Bio-electromagnetic Compatibility" Actual trends"

Sibiu, Romania

**18-20 May 2010**

"The 12<sup>th</sup> International Conference The optimization of electric and electronic equipment OPTIM 2010"

Braşov, Romania

**7-8 June 2010**

International Conference "Materials for Electrical Engineering MmDE" and "IEEE Romanian Magnetic Society Chapter Conference IEEE ROMSC", Iaşi, Romania

**13-17 June 2010**

"Regional Forum of Energy FOREN 2010"

Neptun-Olimp, Romania

**30 June 2010**

Workshop: "Electromagnetic shielding in the modern technique", ICMET Craiova, Romania

**8-9 October 2010**

"The 10<sup>th</sup> International Conference on Applied and Theoretical Electricity ICATE", Craiova, Romania

**7-8 October 2010**

"The 15<sup>th</sup> National Conference of Electric Drives CNAE 2010", Craiova, Romania

## THE FIRST LABORATORY IN ROMANIA FOR SAR\* DETERMINATION AT THE TERMINALS USED IN MOBILE TELEPHONY IS IN OPERATION AT ICMET CRAIOVA

Within the general context of the concerns regarding the consequences of electromagnetic pollution generated by the mobile communication systems, unprecedented increase of the numbers of these terminals and their uncontrolled use by children (more than 20 million terminals in operation in Romania and more than 300 million in Europe), also the influence of base stations, recommendations and norms for limiting the human exposure to electromagnetic fields have been developed at international and, recently, at national level.

As a result, during the period 2007-2009, this laboratory was carries out as part of SAREMF project financed by the National Authority for Scientific Research within the program "CAPACITATI". The Laboratory allows:

- evaluating and validating the conformity with the European and international standards in force for the commercialized products, for the second-hand ones inclusively, action known also as "market surveillance";
- performing comparative studies and tests at international level (participation in intercomparison schemes, inclusively);

- creating the conditions for the Romanian scientific community participation in the development of modern communication systems with low electromagnetic pollution within European projects.

\* **Observation:** SAR = Specific Absorption Ratio of Electromagnetic Radiations generated by a mobile phone, expressed in W/kg. human body, represents a quantity specific to each mobile phone, which determinates the harmful effects of using it in the current life.



The measurements performed at Craiova were already confirmed by intercomparisons with other laboratories in Europe:

- SICOM Italy;
- BNetzA Germany;
- AIT Austrian Institute of Technologies.

The Laboratory is open for all the companies from our country, from abroad and for physical persons.

Supplementary information at [testing\\_services@icmet.ro](mailto:testing_services@icmet.ro)

## THE MODERNIZATION OF THE LABORATORY OF ELECTRICAL MATERIALS

On 2 September 2009, the new Laboratory of Electrical Materials set up during the period 2007 - 2009, was presented within the program "CAPACITATI", financed by the National Authority for Scientific Research.



The Laboratory performs:

- evaluation of the condition of electrical insulating oils according to the international standards (water content; acid number; number of particles; interfacial tension; chromatographic analysis of dissolved gases; oxidation stability; corrosive action of sulphur);

- monitoring and diagnosis activities of the condition of electric transformer insulation;
- technical consulting for the companies manufacturing electric equipment;
- characterization and utilization of new electrical insulating materials.

Supplementary information at [testing\\_services@icmet.ro](mailto:testing_services@icmet.ro)

## RENAR RECENTLY PARTICIPATED IN ILAC AND IAF MEETINGS

Having in view that the RENAR activity is very important for ICMET because the national accreditation of ICMET laboratories is granted by this association, the events in which RENAR participates are of interest for ICMET, too.

➤ In October 2009 the General Assemblies of ILAC (International Laboratory Accreditation Cooperation) and IAF (International Accreditation Forum) were held in Vancouver Canada.

➤ On this occasion, Romanian Accreditation Association - RENAR signed with ILAC the International

Agreement regarding the extension of accreditation field for calibrations.

➤ Within IAF assembly, RENAR (Romania) signed the International Agreement for Recognition for accrediting the certifiers of the environment management systems.



## PARTICIPATION OF ICMET REPRESENTATIVES IN "57-th" MEETING OF STL TECHNICAL COMMITTEE"

ICMET Craiova has proposed to become a member of the Short-Circuit Liaison (STL), a forum for voluntary international collaboration between testing organizations.

The main objectives of this forum are:

- The uniform interpretation of IEC and Regional Standards related to IEC Standards for the testing of electrical power equipment by the preparation of STL Guides.
- The uniform presentation of test result and data in the different documents issued by each testing organization and the conditions of which each document can be issued.
- The harmonization of measuring techniques and methods to be used when performing the type tests specified in the Standards.



With that end in view, ICMET representatives participated in the 57-th meeting of STL Technical Committee held in Bangalore, India, between 03-08 November 2009.

In this Technical Committee meeting, 25 delegates participated, representing laboratories from 13 countries: ASTA-BEAB (UK), SATS (Norway), CESI (Italy), ESEF CERTIFILEC (France), PEHLA (Germany), STLNA (USA) a.s.o.

ICMET representatives presented proposals for the interpretation of the switchgear test standards: IEC 60265-1, IEC 62271-2, IEC 62271-202 and also a statement of intent for becoming STL member in the next 3 years.