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Further Information
Please consult the conference web page for regular updates. To receive the 2nd circular, please fill in the following form and return it to the conference secretariat or, in alternative, send the same information by e-mail to secretary@ecapd8-metz.net:

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First Circular

8th European Conference on Applications of Polar Dielectrics

Metz (France)

September 5 – 8, 2006

http://www.ecapd8-metz.net
Introduction

Polar dielectric materials find several applications in various areas, including piezo- and ferroelectricity, optics, nonlinear optics, acoustics, electronics and optoelectronics. ECAPD is the principal European and international forum where the latest research and technological advances related to these materials are being presented and discussed. The conference is the eighth in a series that started in Zürich (Switzerland) in 1988 and was followed by the editions in London (UK) in 1992, Bled (Slovenia) in 1996, Montreux (Switzerland) in 1998, Jurmala (Latvia) in 2000, Aveiro (Portugal) in 2002, and Liberec (Czech Republic) in 2004. The objective of ECAPD’8 is to achieve international and interdisciplinary exchange of information and cooperation among researchers in academia, government laboratories, and industries, and to stimulate growth in the field of polar dielectric materials and applications.

Organization

ECAPD’8 is organized by the "Laboratoire Matériaux Optiques, Photonique et Systèmes" (LMOPS) which is associated to the University Paul Verlaine of Metz, to the "Ecole Supérieure d'Electricité" (Supélec), and to the "Centre National de la Recherche Scientifique" (CNRS). The organization is in collaboration with the "Ecole Nationale Supérieure d'Arts et Métiers" (ENSAM).

Topics

The conference will provide a forum for discussion of all aspects related to polar dielectric materials, covering the whole spectrum from basic research to technology. The following topics will be covered:

- **Material Research**
  Single crystals, thin films, ceramics, polymers, composites and liquid crystals, multifunctional materials, multiferroics, processing and fabrication technologies

- **Application oriented studies of physical properties of dielectrics**
  Ferro-, piezo- and pyro-electric properties, optical properties, electro-optical and nonlinear optical effects, photorefractivity and photoconductivity, THz generation and spectroscopy, ultrasonics, high-Tc superconductivity, ionic conductivity, microstructure related properties, domain engineering

- **Device research**
  Piezoelectric transducers, smart sensors and actuators, pyroelectric detectors, electro-optic modulators, spatial light modulators and displays, 2D and 3D optical storage devices, optical signal processors, optical frequency converters, THz technology, integrated optical devices, nonlinear photonic bandgaps, periodically poled ferroelectric devices, ferroelectric memories, microelectromechanical systems, medical applications.

Location

The conference will be held in Metz-Technopôle at the "École Nationale Supérieure d'Arts et Métiers" (ENSAM). The historical city of Metz, though becoming a center for high technology, has not forgotten its rich history and culture, which reaches back to the Roman empire and beyond. You will be charmed by the coherence of the city's architecture and will enjoy beautiful places, such as the hill of Sainte Croix with its pre-Christian ruins, the medieval arches of the place St Louis, the Saint Etienne cathedral, one of the finest gothic churches in France and beautiful parks and planted squares in the heart of the city and on the shore of the river Moselle.

Metz is lying at the intersection between the North-South rail connection Benelux-Switzerland-Italy and the West-East connection Paris-Frankfurt-Eastern Europe. It is easily reachable from Paris and Frankfurt (Germany) in about 3 hours train travel. Luxembourg International Airport with frequent flights to all major European cities is 70 km to the north and is connected to Metz by public transportation.