



Purpose The 13th International Balkan Workshop on Applied Physics aims to bring together leading academic scientists, researchers and scholars to exchange and share their experiences and research results about all aspects of applied physics.

Sessions/Topics:

1. Materials Physics and applications: Semiconductors, dielectrics and organic materials; Spintronics, magnetism and superconductivity; Crystal growth, surfaces, interfaces and thin films; Polymers and amorphous materials

2. Laser, Plasma and Radiation Physics and applications: Laser physics and applications; Plasma physics and applications; Optoelectronics and photonics; Applied and non-linear optics; Ultrafast phenomena and applications

3. Nuclear and subnuclear physics and applications: Nuclear and subnuclear sciences and engineering; Advanced detection systems; Accelerated particle beams; Nuclear techniques and applications; Nuclear safety and radiation protection

4. Cross-disciplinary applications of physics: Nonlinear dynamics, complex systems and applications; Biological complexity and genetics; Biophysics, medical physics and biomedical engineering; Econophysics; Physics of social systems

5. Engineering and Industrial Physics: Physics of energy transfer, conversion and storage; Environmental physics; Sensors and device physics; Micro- and Nanoelectronics; Microelectromechanical systems; Instrumentation and metrology; Imaging, microscopy and spectroscopy and their applications; Processing, fabrication and measurement technologies, and instrumentation; Applications of fluid mechanics and microfluidics

6. Topics in Physics Education Research: Physics curriculum design; Active learning techniques; Classroom teaching, demonstrations and laboratory experiments

13th International Balkan Workshop on Applied Physics

Constanța, Romania, July 4-6, 2013



Organizers The workshop is organized by the Ovidius University of Constanta, the Balkan Physical Union and the Romanian Physical Society and is addressed to all scholars interested in applied physics from the Balkan countries and from all over the world. The participation of young scientists and students is greatly encouraged, one of the goals of the workshop being to offer the new generation an opportunity to present original new results and a chance to learn from the experience of distinguished researchers.

The workshop continues a tradition started by BPU in 1999, in Tsigov-Chark, Bulgaria, and continued in 2001 in Edirne, Turkey, and 2002 in Targoviste, Romania. Starting with 2003 the workshop has been held annually in Constanta, Romania with one exception, 2012, when Ovidius University of Constanta hosted the 8th General conference of the Balkan Physical Union.

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Location The conference will be held at the Ovidius University of Constanta in the northern part of the city, close to the summer resort of Mamaia. Constanta is one of the largest cities of Romania, and the most important industrial, commercial and cultural centre of the south-eastern part of the country. The city has always been a centre of ethnic and spiritual diversity, a pole of economic exchanges in the Black Sea region and in South-Eastern Europe. Constanta is located 220 km east of Bucharest, over the ruins of the ancient Tomis, a Greek settlement in VII-th century B.C. Place of exile for the roman poet Ovidius, the city was rebuilt in the IV-th century by the Byzantine emperor Constantine the Great, who renamed it Constantiana. A continuator of ancient traditions of culture and civilization, the city benefits now from a rich historical heritage and spiritual life, with numerous museums and archeological sites. Located between the Black Sea and the Mamaia Lake, the resort is probably the best summer destination of Romania. Two hours north of Constanta is the Danube Delta, a UNESCO World Heritage Site, paradise for birds, fish and plants.

Publications: The contributions presented at the workshop can be published, depending on the topic, in the Romanian Journal of Physics *or* the Journal of Optoelectronics and Advanced Materials, subject of the regular refereeing process, following the standard procedure of the respective journals.

Registration fees: 100 EUR for early registration, 125 EUR for late registration. Discounts are available for students and members of the Romanian Physical Society.

Deadlines: Abstract submission (online): May 10, 2013. Notification of abstract acceptance: May 17, 2013. Early registration: June 05, 2013, Conference dates: July 04-06, 2013. Webpage: www.ibwap.ro/2013/. E-mail: ibwap@univ-ovidius.ro