

# **Proceedings**

of the

## **Third International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference**

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Department of Mechanical Engineering, Aristotle University of Thessaloniki, Greece  
&  
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### **In collaboration with:**

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## EDITORS' PREFACE

The 3<sup>rd</sup> International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE) presents the current issues in environmental science, engineering and management and it is held, like the first and the second one, together with a special conference of the International Society for Ecotoxicology and Environmental Safety (SECOTOX), providing a special forum to environmental toxicology.

The 3<sup>rd</sup> CEMEPE Conference deals with environmental engineering and management, incorporating themes related to planning and economics aiming at creating a potential for osmosis between environmentalists and other scientists such as economists, engineers, planners, policy makers etc. The conference is designed to encourage the exchange of ideas and knowledge between diverse groups of the scientific community concerned by current issues in environmental science, engineering, management, planning and economics. The 1<sup>st</sup> CEMEPE conference was successfully completed in Skiathos island in June 2007, the 2<sup>nd</sup> was held in the picturesque Hellenic island of Mykonos, in June 2009, whereas the 3<sup>rd</sup> was held in Koukounaries area, in Skiathos island, between June 19 and 24, 2011. Skiathos, was chosen to host the 3<sup>rd</sup> CEMEPE/SECOTOX, because it boasts some of the most beautiful beaches in the whole of Greece, it has rich cultural heritage and it affords a wealth of tourist facilities.

A total of 189 manuscripts are included in the book of abstracts. Participants from 36 different countries contributed their work to the conference. During the 1<sup>st</sup> CEMEPE SECOTOX Conference, there were complaints among participants that they had to carry the 4 hard-copy volumes of the proceedings back home. Therefore, the organizing committee chose this time to publish the book of abstracts in a hard copy volume and edit the submitted full papers in e-proceedings in a CD-ROM. It has to be noticed that the CD-Rom is properly edited and it has a separate ISBN number. The papers have been arranged in the following 25 topics:

Ecotoxicology (12)  
Natural wastewater treatment systems (6)  
Ecosystems analysis and protection (4)  
Water resources engineering and management (15)  
Fate and transport of pollutants (7)  
Water pollution (11)  
Industrial waste (8)  
Waste monitoring and management (15)  
Air quality (5)  
Urban aerosols and health effects (4)  
Renewable energy sources (8)  
Energy and environment (11)  
Global climate change (2)  
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Sustainable Production and Consumption (3)  
Environmental restoration (2)  
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Environmental impact assessment and risk analysis (12)  
Environmental education (2)  
Sustainable development and planning (9)  
Sustainable urban planning (4)  
Tourism and environment (4)  
Cultural heritage and architectural issues (3)

The editors would like to thank:

- SECOTOX Society for being eager to organize a joint meeting with CEMEPE.
- The authors of the papers, for their scientific contributions.
- The reviewers of the papers for their invaluable assistance in order to ensure high scientific standards.
- The sponsors of the 3rd CEMEPE Conference for their financial support, without which it would not have been possible to keep the registration fees at a reasonable cost.
- All participants for their involvement in the exchange of knowledge, know-how and ideas, which is the essence of this conference
- Grafima Publications for their collaboration as well as their contribution to the editing of both the book of Abstracts and the e-proceedings.

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Petros Samaras  
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