



"Gheorghe Asachi" Technical University of Iasi, Romania



EDITORIAL

A SPECIAL ISSUE DEDICATED TO

ACHIEVEMENTS AND PROSPECTS IN HYDROTECHNICAL, GEODESY AND ENVIRONMENTAL ENGINEERING

Symposium *HGIM* – 2012, October 25-28, Iasi, Romania

In 2012, the Faculty of Hydrotechnics, Geodesy and Environmental Engineering of The "Gheorghe Asachi" Technical University of Iasi, Romania celebrated 50 years of education in the field of hydraulic engineering at the Polytechnic Institute of Iasi.

In 1948, in the same time with the Education Reform in Romania, in Galati, the Faculty of Hidrology was founded. At the same time, students who were attending the Rural Engineering Specialization in Bucharest were also transferred to the new established Faculty. In the same year, it was founded in Iasi the Land Measurements Institute, which in 1951 was transferred to the Faculty of Land Measurements of Galati (the name was changed in 1952 in the Faculty of Geodesy). During 1955 academic year this Faculty functioned in Galați, having two sections: Geodesy and Agricultural Land Management.

Since the Autumn of 1957 the Faculty of Land Reclamation and Agricultural Land Management was transferred to "Ion Ionescu de la Brad" Agronomic Institute (today "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine of Iasi) keeping the same name, under which it worked until 1962, when it was transferred to the Gheorghe Asachi" Polytechnic Institute " of Iași.

On autumn 1962, the Faculty of Land Reclamation was transferred from the Agronomic Institute "Ion Ionescu de la Brad" to the Polytechnic Institute of Iasi. This was the birth moment of the Faculty of Agricultural Hydrotechnics (academic year

1962-1963). Starting with the next academic year, the name was changed to the Faculty of Hydrotechnical Engineering, by attaching the Department of Construction and Hydraulic Engineering (transferred from the Faculty of Construction). Since 2007 and so far, it has worked as Faculty of Hydrotechnical, Geodesy and Environmental Engineering.

On this celebration, the Faculty of Hydrotechnics, Geodesy and Environmental Engineering, organized the Symposium, *Achievements and Prospects in Hydrotechnical, Geodesy and Environmental Engineering* was organized on 25-28 October 2012, which brought new highlights, information and ideas to all participants in these area.

The symposium was dedicated to the analysis of the most relevant and urgent problems in hydrotechnical, geodesy and environmental engineering, which is characterized by considerable progress. The conference program was dense and rich, offering a considerable variety of topics covered, addressing the following topics:

Hydrotechnical Engineering: Floods, Droughts, Hydrotechnical Structures, Water Works.

Geodesy: Geodetic Networks; Topography; Applied Geodesy; Cartography, Photogrammetry, Remote Sensing; Cadastral Information Systems.

Environmental Engineering: Pollution Monitoring; Modeling, Simulation and Optimization; Risk and Life Cycle Assessment, Environmental Integrated Management; Solid Waste Management; Waste Water Treatment.

Also, other issues correlated with environmental protection and sustainability were addressed during the symposium in a trans- and interdisciplinary approach, and this led to the wide range of subjects discussed: soil structure and water-stable aggregates; soil stabilization; modeling as a tool for the characterization of some soil processes; geodetic networks development and coordinates transformation in local geodetic datum; analysis of deformations in cartographic projections used in cadastral works; impact of riverbed design on water quality; GIS techniques in hydrotechnical, geodesy and environmental engineering; energy efficiency of wastewater treatment plants by modernizing the conventional treatment process; reducing energy consumption in water distribution systems; modeling in wastewater treatment; modeling the impacts of human activities on water quality; drains in multilayer ground in permanent flow regime; air pollution time series analysis and modeling; global dimming generated by atmospheric aerosols; improvement of

real-time monitoring process; soil (phyto)remediation; solid waste management and resource conservation.

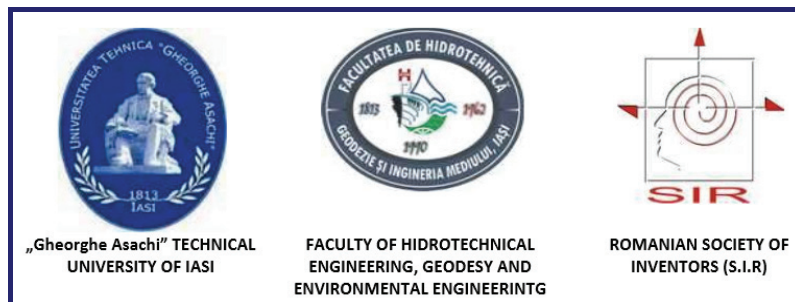
The associated exhibition organized in parallel with the symposium offered to the participants the opportunity to get up-to-date information from companies active in our area of interests.

We consider that the Symposium HGIM – 2012 was a successful scientific event, while we are grateful to those involved in its organization Chairmen, International Scientific Committee, Organizing Committee, Sponsors and Supporters. Special thanks go to our Plenary, Invited and Featured Speakers and to all who came to Iasi to share their work!

We hope that all actors involved in the symposium have found its development both interesting and stimulating and that they enjoyed making new contacts for future cooperation. We look forward to receive feedbacks on this event and to see you again at the next symposia.

Guest Editor:

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Professor Florian STĂTESCU is the Dean of the Faculty of Hydrotechnics, Geodesy and Environmental Engineering of the "Gheorghe Asachi" Technical University of Iași. The teaching activities focus on *Soil Science, Soil Reclamation, Land Assessment, Soil Monitoring and Risk Assessment of Contaminated Soils*. His main research fields are: *Soil Physics and Chemistry, Dispersion of Contaminants in Soil and Technologies* for rehabilitation of degraded soils. The most important scientific results are presented in about 12 books and more than 120 publications on environmental engineering. He was Member of Scientific Committee of the International Conference on Management Technical Changes, in 2009, 2010, 2011. Professor Stătescu was awarded with the Diploma of Honor of Romanian Inventors Society, for his activity in the area of technical creation.