

**Seventh Annual Meeting of the Bulgarian Section of SIAM
December 19 - 20, 2012, Sofia, Bulgaria
(BGSIAM'12)**

Organization and Goals:

The event is organized by the Bulgarian Section of SIAM (BGSIAM) and will be hosted by the Institute of Mathematics and Informatics, Bulgarian Academy of Science. The financial support of SIAM is highly appreciated and acknowledged. Realizing the importance of interdisciplinary collaboration and the role that applied mathematics plays in advancing science and technology and industry, we solicit the support of SIAM as the major international organization for Industrial and Applied Mathematics in order to promote the application of mathematics to science, engineering and technology in Republic of Bulgaria.

Scientific Topics: Following the traditions, the topics of interest include (but are not limited to): industrial mathematics; partial differential equations and applications; numerical analysis and algorithms; scientific computing; neural networks and applications.

Invited Plenary Lectures:

Prof. Raitcho Lazarov, Department of Mathematics, Texas A&M University,
College Station, USA

“Numerical Upscaling and Preconditioning of Flows in Highly Heterogeneous Porous Media”

Prof. Todor Gramchev, Department of Mathematics, University of Cagliari, Italy

“Global Normal Forms of Perturbations of the Harmonic Oscillator”

Prof. Vladimir Veliov, Department of Mathematics, Vienna University of Technology,
Austria Vienna, Austria

“Metric Regularity, Stability and Approximations in Optimal Control”

Prof. Nikolay Kutev, Institute of Mathematics and Informatics, Bulgarian Academy of
Sciences, Sofia 1113, Bulgaria

“Anisotropic Diffusion and Applications to Image Processing”

Conference Program

Conference Proceedings: BGSIAM'12 Proceedings of extended abstracts of the presented talks will be published.

SIAM Sections : <http://www.siam.org/join/sections/>