# *Welcome Note from Conference-Chair*

## Welcome…!!!

On behalf of the Organizing and Advisory Committee we take great pleasure in welcoming academic scientists, researchers, students to Milan, Italy for the1st edition of Carbon Nanotubes and Graphene Technologies conference to foster the progress in the field by contributing with your expertise to what promises to be a very comprehensive and exciting meeting.

The aim of the Graphene Technology-2019 is to promote quality research and real-world impact in an atmosphere of true international cooperation between scientists and engineers by bringing together again the world class researchers, International Communities and Industrial heads to discuss the latest developments and innovations in the fields of Carbon Nanotubes and Graphene.

It is worthy to mention that the Investigation of various new composite nanostructures based on the graphene and such polymeric ferroelectrics as well as related graphene-like structures based on carbon and related systems has been growing at an extremely rapid rate all over the world.
This is due, of course, to the possible emergence of ever new breakthrough technological applications of such new composite materials and heterostructures. Particularly relevant here are composite graphene structures in combination with polymeric ferroelectrics, which already have a wide range of applications, since this significantly expands all their application possibilities. One of the important part of the contemporary studies in material sciences is computer simulations of materials structures and properties. The development of modern computer and information technologies leads to the inevitable development and rise of the works on the computer modeling and researches of the various types of new nanomaterials, which allows to reduce the costs for their design and significantly increase the efficiency of the creating new and very necessary nanomaterials, which is extremely important. At the present time, computer modeling becomes the main leading approach when creating new materials with predefined properties. One of the most important tools for various studies is computer simulation and quantum chemical calculations using various methods (ab initio, DFT and semi-empirical approaches, including and in combination with molecular mechanics and molecular dynamics).
The use of modern computer methods of mathematical modeling and numerical study of the processes of formation of ferroelectric phenomena at the atomic-molecular nanoscale, modeling of conditions and mechanisms of physical phenomena, calculation of physical properties in the atomic-molecular systems of nanoscale scale is an effective inter-discipliner approach to solving the fundamental problem of ferroelectricity in such complex multicomponent heterostructures.

This approach, combined with experimental research, significantly complements them and, in some cases, modeling and calculation allows forecast and predicting possible effects in advance, thereby reducing the economic costs of conducting experiments. And here - such a conference as that Graphene Technology-2019 serves as an international platform for meeting researchers from around the world, widen professional contact and create new opportunities, including establishing new collaborations. It is just such a platform where active intersection, interaction and joint development of new ideas and projects are possible on the basis of experimental and computer researches combined with practical contributions from leading industrial companies able to adequately evaluate new achievements, introduce them and find them an effective place in the market of new technologies, especcially such as novel combined and prospective Graphene Technolgies.

Dr. Vladimir S. Bystrov
Pushchino, Russia