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3rd International Summer School and Workshop "Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure"

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3rd International School and Workshop on Complex and Magnetic Soft Matter Systems: Structure and Physico -Mechanical Properties

Organized by

Joint Institute for Nuclear Research, Dubna
West University of Timisoara
Institute of Continuous Media Mechanics of Russian Academy of Sciences, Perm
Belarusian National Technical University, UNESCO Chair
Horia Hulubei National Institute of Physics and Nuclear Engineering, Bucharest
Romanian Society of Physics

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Guest Editors

Yuriy Raikher, Maria Balasoiu, Andrey Rogachev, Madalin Bunoiu

















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CMSMS'17 - 3rd International School and Workshop on Complex and Magnetic Soft Matter Systems: Structure and Physico -Mechanical Properties

Yuriy Raikher^{1, 2*}, Maria Balasoiu^{3,4*}, Andrey Rogachev^{3,5*}, Madalin Bunoiu^{6*}

Preface

The CMSMS'17 was organized by Joint Institute for Nuclear Research (Dubna), West University of Timisoara, Institute of Continuous Media Mechanics of Russian Academy of Sciences (Perm), UNESCO Chair of the Belarusian National Technical University, Institute of Physics and Nuclear Engineering "Horia Hulubei" (Bucharest) and Romanian Society of Physics.

The topics of lectures, oral and poster presentations covered the theory, simulations, and experimental research in physical, mechanical, structural and chemical aspects of the materials science as well as biological aspects of soft complex matter with special emphasis on soft magnetic matter (magnetic elastomers, ferrogels, ferroliquid crystals, associations of nanoparticles with biomolecules and cells, etc.).

The first International Summer School and Workshop "Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure" (CMSMS'12) took place from 3 to 7 September 2012 in Alushta. It has brought together 32 specialists (top-level experts and young researchers) from Russia, Romania, Moldova, Belarus, Ukraine, France and Germany working on interdisciplinary problems in soft matter. Their contributions totaled 37 works.

The second event (CMSMS'14) was organized in Dubna from 29 September to 3 October 2014. It has brought 65 participants from Russia, Romania, Poland, Slovakia, Germany, and France. More than 10 invited speakers from Russian and foreign institutions provided a brief overview of several important research issues in complex and magnetic soft matter fields. Young scientists demonstrated a high level

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at both the poster session and the oral presentation. The programme included an excursion to the Frank Laboratory of Neutron Physics, where the participants visited the high-pulsed reactor IBR-2 and the intense resonance neutron source IREN.

The main objective of CMSMS'17, organized in Dubna from 28 to 30 June 2017, was to exchange the latest research findings in the scope of the meeting. Around 60 scientists from Azerbaijan, Belarus, Germany, Poland, Romania, Russia, and Slovakia have participated. A number of 14 invited lectures delivered concise overviews of actual research issues in the school topics. Young scientists were encouraged to present their results in oral talks. The poster sessions extended the frame of oral sessions providing opportunities for the scientific exchange in personal discussions to be continued. The presentations amounted to 35 contributions.

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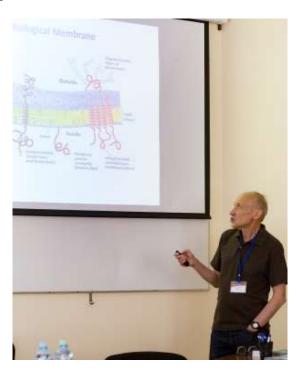
Conference Photos



3rd International School and Workshop on Complex and Magnetic Soft Matter Systems: Structure and Physico -Mechanical Properties, 28-30 June 2017, Dubna

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During the lectures





During the lectures

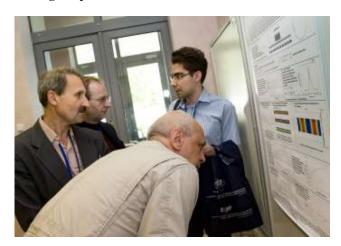








During the poster session









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In between sessions









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