

COOPERATION OPPORTUNITIES IN RESEARCH ACTIVITIES

	Managerial Team	Aim and Objectives	Research resources
<p style="text-align: center;"><b>AMON</b> <b>INTEGRATED PLATFORM</b> <b>FOR ADVANCED STUDIES</b> <b>IN MOLECULAR</b> <b>NANOTECHNOLOGIES</b></p> <p style="text-align: center;">Bld. Carol I, 11 RO - 700506 Iași Tel.: +40 232 201175 Fax: +40 232 201205 Email: <a href="mailto:alstancu@uaic.ro">alstancu@uaic.ro</a></p> <p style="text-align: center;"><a href="http://stoner.phys.uaic.ro/amon.html">http://stoner.phys.uaic.ro/amon.html</a></p>	<p><b>Prof. Dr. Alexandru Stancu</b> <b>Platform Director &amp; Research Activities Coordinator</b> Email: <a href="mailto:alstancu@uaic.ro">alstancu@uaic.ro</a></p> <p><b>Prof. Dr. Gheorghe Popa</b> <b>Training Activities Coordinator</b> Email: <a href="mailto:ghpopa@uaic.ro">ghpopa@uaic.ro</a></p> <p><b>Prof. Dr. Ferucio Laurențiu Țiplea</b> <b>Administrative Activities Coordinator</b> Email: <a href="mailto:ftiplea@infoiasi.ro">ftiplea@infoiasi.ro</a></p>	<p>The AMON platform is an organizational structure of Alexandru Ioan Cuza University, which involves Faculties of Physics, Chemistry, Biology and Computer Science.</p> <p>The platform gets together the human and material resources in educational and interdisciplinary research activities in several actual directions in science, especially in <b>nanotechnologies down to molecular level</b>. The main idea behind the project is to use and enhance the knowledge of the members of the platform in nanotechnologies by organizing a collaborative structure which involves specialists from different domains and by financing the acquisition of high level laboratory equipment, needed by all the members of the platform.</p> <p><b>The educational objectives</b> of the AMON platform are to ensure the scientific framework for master and doctoral studies programs in the domains of expertise of the platform and propose new master and doctoral studies programs with an interdisciplinary character in order to respond to present demands of the scientific research. These educational programs (master and doctoral studies) will be integrated in high level educational programs with international recognition. Some of the courses proposed by the platform will be integrated in the educational programs of the European Institute for Molecular Magnetism (EIMM) organized within the FP6 Network of Excellence MAGMANet in which UAIC is a founding partner.</p> <p><b>The platform undertakes interdisciplinary research in:</b> <i><b>Nanomaterials Science;</b></i> <i><b>Biophysics;</b></i> <i><b>Molecular Genetics;</b></i> <i><b>Informatics (non-standard calculus with applications in cryptography and in security of information);</b></i> <i><b>Molecular Magnetism;</b></i> <i><b>Theoretical chemistry and ab-initio calculus.</b></i></p>	<p><b>Advanced Magnetic Measurements Laboratory:</b> AGM &amp; VSM Magnetometer, Princeton Measurement Co.; SQUID MPMS-XI-7AC Magnetometer – Quantum Design</p> <p><b>Structural Analysis Laboratory:</b> XRD Shimadzu 6000; XPS microscope</p> <p><b>High Frequency Measurements Laboratory:</b> Agilent e4908a – 10Hz-2MHz Agilent e4991a – 1 MHz- 3GHz Agilent e8361a PNA Network Analyser 10MHz-67 GHz Vertical field probe station LakeShore VFTTP4</p> <p><b>High Performance Computing Laboratory:</b> Supercomputer (cluster 130 Quad-core processors, 4 TFlop, 1 TB RAM)</p> <p><b>Laboratory of Molecular and Cellular Biophysics:</b> Fluorescence spectrophotometer Fluorescence microscope 'Patch-clamp' setups</p>