

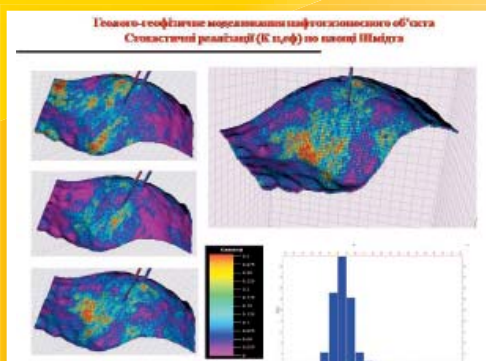


GEOLOGY:

- stratigraphic and formational aspects of mineral occurrence,
- mineralogy and geochemistry of rocks and minerals
- geological and environmental aspects of construction and reconstruction projects evaluation,
- theoretical and applied projects in geophysics,
- mathematical modeling of physical parameters in studying and forecasting oil reservoirs and non-conventional shale gas,
- principles and methods of geological and economic evaluation of mineral deposits,
- structure and tectonics of the Precambrian Ukrainian Shield.

GEOGRAPHY:

- social and geographical aspects of nature management,
- development of tourism in Ukraine: principles and strategies,
- landscape ecology and sustainability,
- comprehensive mapping, principles and methods of sustainable environmental management,
- methodology of ecological and hydrological analysis of river water bodies,
- impact of current climate change on water resources.





Scientific Research

ECONOMY:

- history of economics,
- development of Ukraine: structural, innovation and investment, institutional, financial and external factors,
- economic security and risk management in the national economy,
- institutional management and commercialization of intellectual property,
- business organization,
- statistical studies and economic modeling of socio-economic processes,
- accounting, analysis and audit,
- genesis and characteristics of international economic relations and business,
- international integration processes in the world economy,
- innovation in investment policy, management systems and economic mechanisms for financing education.



BIOLOGY:

- Molecular, cellular and system mechanisms of adaptive responses in human and animals in the development of various pathologies and upon action of chemical and physical factors;
- Biodiversity conservation and adaptive strategies of phyto-, zoo- and virobiota based on bioinformatics technology.
- Introduction and preserve the gene pool of plants and adaptive strategies in anthropogenic impact and climate change.
- Ecosystem monitoring and development of activities on endangered species.





Scientific Research

CYBERNETICS:

- modeling and optimization of information systems,
- mathematical modeling and the theory of optimal resolutions,
- programming science and its application,
- mathematical information science,
- developing and introducing computer technology in the educational process,
- theory of stochastic systems and applied statistics.



MATHEMATICS AND MECHANICS:

- differential and integral equations,
- probability theory and mathematical statistics,
- algebra and number theory,
- mechanics.





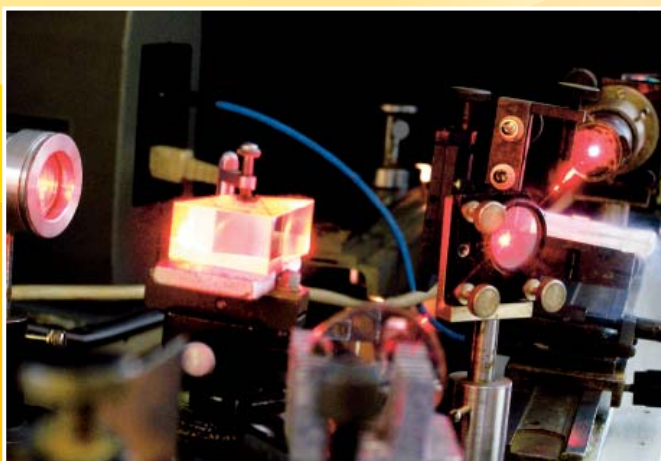
INTERNATIONAL RELATIONS:

- theory of international relations and foreign policy,
- country studies in the international relations research system,
- origin and structure of international law,
- Ukraine in the modern processes of international economic integration,
- international business: basic mechanisms and development trends,
- transformation of the global information space.



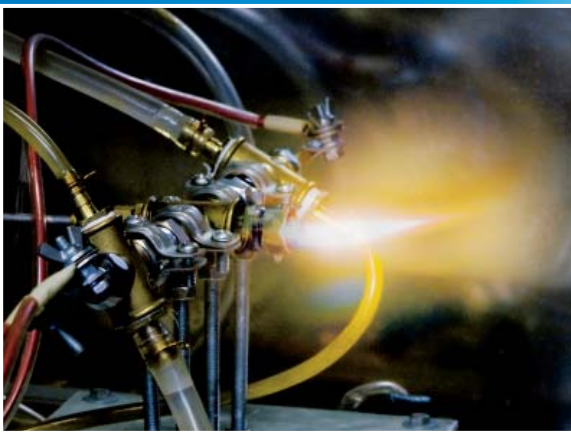
PHYSICS AND ASTRONOMY:

- condensed matter physics, physical engineering fluid systems, nanostructures, polymers, biomedical objects, organic and inorganic semiconductors, metals and alloys, composite materials, ceramic systems, functional layers,
- physics of nuclei and elementary particles, high-energy physics,
- astronomy, astrophysics.



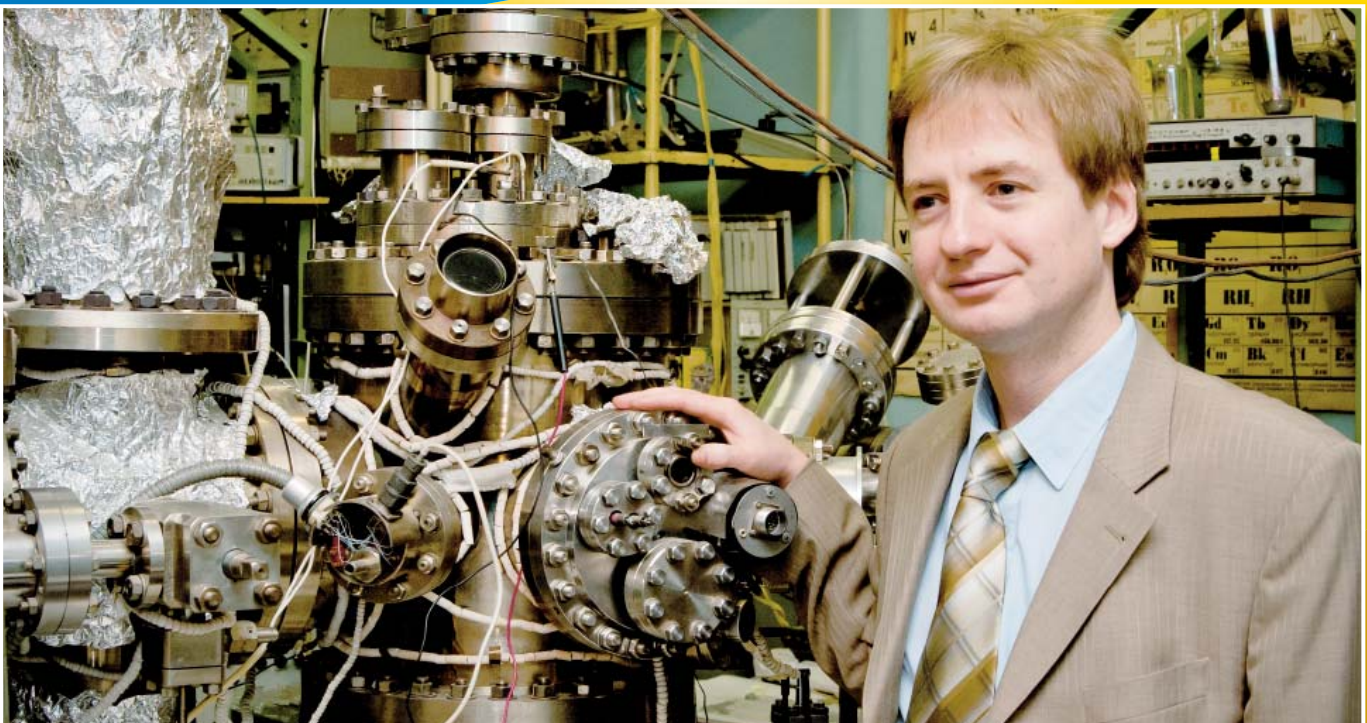


Scientific Research



RADIOPHYSICS AND ELECTRONICS:

- radiophysics and functional electronics,
- physics, electronics and surface physics,
- physics of semiconductors,
- nanophysics and nanoelectronics, nanomaterials,
- laser polarimetry, plasma physics, plasma chemistry, medical instrument engineering,
- magnetic resonance imaging, computed tomography and ultrasound,
- radio engineering and radio-electronic systems,
- spindependent transport and charge recombination in nanoobjects and semiconductor structures,
- nuclear probing in studying nano-objects properties and manufacturing.





SOCIOLOGY:

- new paradigms of theoretical sociology,
- social inequality and social mobility in modern societies,
- methodology and methods of comparative social research,
- sociology of communication.



JOURNALISM:

- social communication,
- monitoring systems of mass communication,
- history of journalism,
- editing,
- publishing,
- modern Ukrainian mass media discourse,
- advertising and public relations.





Scientific Research

PHILOSOPHY:

- Philosophical and worldview and political science aspects of humanitarian development of modern society;
- Logical and methodology of science, theoretical and practical philosophy;
- Theoretical and methodological problems of historic-philosophical cogniti
- Academic religious studies and philosophy of religion
- Theoretical and applied political science;
- Theory and history of public administration;





LAW:

- land, environmental law and environmental security,
- civil legal regulation of personal (non-property) and property relations in Ukraine,
- international law,
- legal and political systems under globalization,
- theoretical and practical aspects of law in Ukraine.

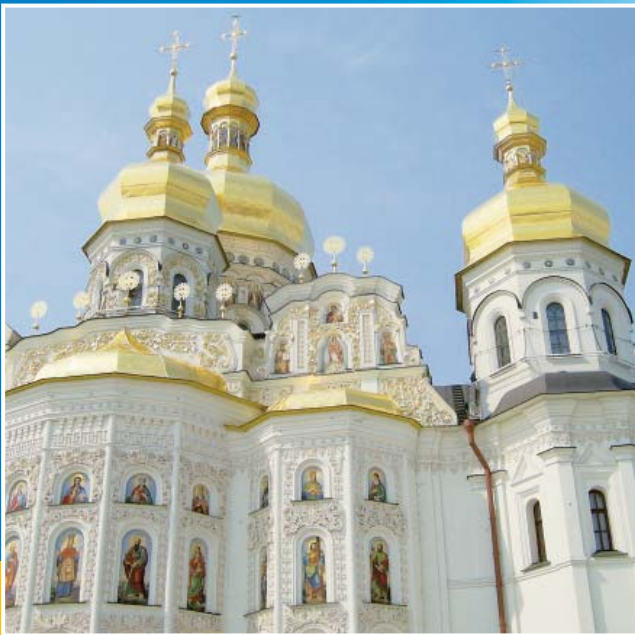


PSYCHOLOGY:

- history of psychology,
- psychodiagnostics,
- psychology of social work,
- social psychology,
- general psychology,
- environmental education.



Scientific Research



HISTORY:

- history of formation and development of the Ukrainian state,
- study of primitive society in Ukraine,
- study of ethnological aspects of Ukrainian history,
- research on the history of the Slavic peoples via modern Ukrainian-European relations,
- historiography in Ukraine,
- history of church,
- specific and theoretical sources,
- European ethnic history.



PHILOLOGY:

- theory and methodology of literary criticism;
- Ukrainian: modern language tendencies;
- problems of language contacts in the historical and present-day paradigm as viewed through modern translation;
- folklore and folklore studies in Ukraine; inter-semiotic aspect, comparative discourse, folklore hermeneutics;
- Shevchenko studies.



CHEMISTRY:

- chemical compounds as analyzed through technological processes;
- synthesis, structure, and properties of heterocyclic compounds;
- coordination chemistry;
- polymers and compositions with special sets of properties;
- physical and chemical properties of catalysts, sorbents, and alloys;
- supramolecular chemistry;
- synthesis and study of modified peptides as potential drugs.