

QUESTIONNAIRE

Please, fill in the Questionnaire and return it to contact person in your country.

(*) – mandatory fields

Details about organisation	
* Organisation name	Heat Physics Department of Uzbekistan Academy of Sciences
Organisation acronym	HDP
* Organisation Activity Type (RES - Research, HE - University, SME - Small and Medium Enterprise, IND - Industry, OTH - Other)	RES
* Keywords of main research areas	Thermophysics, Acoustics, Optics, Laser Physics, Material Sciences, Theoretical physics.
* Head of organisation (first name, family name)	Pulat Khabibullaev
* Post code	100135
* Country	Uzbekistan
* City	Tashkent
* Street, House	Katartal Str, 28
* Telephone (+ country & city codes)	(998-71)-2764457
* Fax (+ country & city codes)	(998-71)-2769053
* E-mail	hpd@uzsci.net

* Description of organisation and its research achievements for the last five years (~ 5000 signs)
<p>Heat Physics Department of Uzbekistan Academy of Sciences was established in 1977 by a Decree of Government for solution of most important scientific and technological problems in the field of energy and heat industry. HPD has 4 research laboratories, 1 research station (in Andijan province) and 1 research center of structural images.</p> <p>The main S&T fields of HPD are:</p> <ul style="list-style-type: none"> - Thermophysics of nonhomogeneous matter; - Physics of condensed matter; - Interaction of laser beam with matter (linear and nonlinear effects of interaction of laser radiation with atoms, nanostructures, high transparent glasses); - Theory of thermal processes, energy conversion, etc.; - Laser beam technologies, surface diagnostics; - Superior sates & processes, superior materials. <p>Currently, the staff the HPD includes 50 Scientists, 35 technicians and 15 managing personal. Among the HPD staff are: 1 academician (member of Uzbekistan</p>

Academy of Sciences), 12 of Doctors of Sciences (equivalent of Prof.), and 9 Kandidates of Sciences (equivalent of PhD). Most of HPD research staff have good command English or German.

HPD Research Laboratories have unique equipment for measurement of heat capacity of liquids & solids, absorption of ultrasound in liquids at low frequencies, spectral & kinetic characteristics of luminescence of high transparent optical materials, multiphoton nonlinear processes in an ion beam using high power laser systems, EPR and NMR spectrometers, and TEM electron microscope with space resolution of 0,2 nm and other experimental installations let to carry out experiments in relevant fields.

Every year HPD implements a number of domestic projects on basic & applied researches and innovation activities directed to transfer of new technologies in industries, to use of new materials and to upgrade of technological processes & equipment in different industries (energy, oil & gas, heat industry, etc).

HPD and Dungguk university (Republic of Korea) are, every year, organizing joint Uzbekistan-Korea Seminar on Quantum Functional Semiconductors. Next, 7th Seminar, will be held in mid-October, 2008, in Tashkent.

	Contact Information
* Contact person (first name, family name)	Saidislam Kurbanov
* Department / Laboratory	Optics of Condensed Matter
* Position	
* Qualification and research experience	Doctor of Sciences (Optics) works in HPD since 1978
* Post address (house, street, city, code, country)	28, Katartal Str, Tashkent, 100135, Uzbekistan
* Telephone (+ country & city codes)	(998-71)-2768892
* Fax (+ country & city codes)	(998-71)-2769053
* E-mail	kurbanov@hotmail.com

International co-operation / Participation in EU RTD programmes or other bilateral / multilateral actions
INTAS, TACIS, TEMPUS, COST, EUREKA, other RTD programmes (please specify programme/s, project title/s and year/s)
<p>HPD established fruitful partnership links with many research institutes and universities all over the world. Currently, HPD research teams are carrying out 13 international (bilateral and multilateral) projects: INTAS (6) (1 - in IINTAS-Uzbekistan'2004 Joint Program of collaborative projects, 4 - in INTAS-Uzbekistan'2006 program of young scientists projects and 1 - in INTAS thematic call 2006), NATO Science Committee Reintegration Program (4), German Program of Academic exchange – DAAD (1), Marie Curie Program of Mobility (FP7) (1), Korea International Cooperation Agency - KOICA's grant (1). In framework of Bilateral Programs “Uzbekistan-Russia'2007” and “Uzbekistan-Korea'2007” HPD participates in 2 Joint Projects on acoustic and fluorescence spectroscopy.</p>

In addition, Scientists of HPD, currently, are, currently, staying as invited researchers in USA (Texas university), FRG (Bonn university) and Korea (Dongguk University).

	* Please, use “X” to indicate the scientific area/s of your potential project
CHEMISTRY	
SOCIAL AND HUMAN SCIENCES	
ECONOMIC SCIENCES	
ENGINEERING SCIENCE	X
ENVIRONMENT	
AGRICULTURE AND FOOD	
HEALTH	
MATHEMATICS	
INFORMATION SCIENCE	
PHYSICS	X
NANOTECHNOLOGIES	X
ENERGY	X
TRANSPORT	
SPACE	

* Summary of potential research project envisaged hosting of European researcher for the period of between 1 and 2 years
<p>HPD would like to invite European researches for a period of approx. 1 year to carry out joint researches in such scientific fields as heat physics, optics, laser physics & nonlinear optics. Possible form of organization of visits may be OIF project of the program “People” of FP7.</p> <p>Working Programs of visits, as well as program of theoretical studies and proposed experiments have to be discussed in advance with relevant representatives of HPD (See HPD Contact Person).</p>

	Please, confirm your agreement on data publication and dissemination
I agree with the publication of the data on the web-site http://www.inco-ecca.net , and dissemination among Mobility National Contact Points of the EU MS and AC (YES / NO)	YES
Date	02/06/2008