

QUESTIONNAIRE

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

(*) – mandatory fields

	Details about organisation
* Organisation name	Institute of Materials Science
Organisation acronym	IMS
* Organisation Activity Type (RES - Research, HE - University, SME - Small and Medium Enterprise, IND - Industry, OTH - Other)	RES
* Keywords of main research areas	Materials Science, Physics, Solar Energy, Engineering Science.
* Head of organisation (first name, family name)	Abdujabbor Abdurakhmanov
* Post code	102226
* Country	Uzbekistan
* City	Tashkent
* Street, House	G. Mavlyanov St., 2B
* Telephone (+ country & city codes)	(+998-71) 233-12-71, 235-75-06, 240-38-19
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* Description of organisation and its research achievements for the last five years (~ 5000 signs)
<p>Institute of Materials Science of NPO “Physics-Sun” of Uzbekistan Academy of Sciences was established in 1986 by a Decree of Government. IMS has 5 research laboratories and special industrial units for production of feromons and extraction of oil from cotton seeds with extremely low content of hossipol.</p> <p>The main S&T fields of IMS are:</p> <ul style="list-style-type: none"> - Research of fundamental physical-chemical processes in materials at the interaction of the concentrated solar radiation with substance; - Solving of fundamental problems of synthesis and production on the solar furnace high-refractory of unmetal materials with specific properties and various junctions on their basis; - Development of technologies of high-refractory materials and items for application in medicine, industry, agriculture and other branches of the national economy; - Development of methods of research of large solar power installations, and extention of their functionalities; - Development, designing and manufacturing of a special equipment for the

- solar furnace;
- Designing and creation of new types of solar installations of various assignment.

Currently, the staff the IMS includes 62 Scientists, 89 technicians and 35 managing personal. Among the IMS staff are: 3 academicians (member of Uzbekistan Academy of Sciences), 6 of Doctors of Sciences (equivalent of Prof.), and 19 Kandidates of Sciences (equivalent of PhD). Most of HPD research staff has good command English, French or German.

IMS Research Laboratories have unique equipment for investigation of physico-chemical and mechanical properties of nonmetal materials. IMS has the Big (1 MW) Solar Furnace; a device for radiation heating; a device for determination of spectral-optical of properties of refractory materials by high temperatures; ceramic materials and methods of their application in medicine; a device for identification of jewelry crystals; spectrometric (spectroscopy methods, mass spectrometry).

Every year IMS implements numerous domestic projects on basic & applied researches and innovation activities directed to development & transfer of new technologies on ceramic pontons and filters for oil and gas industry; thread driver for a textile industry; 1,5-1000 kW solar furnace; ceramic productions for an electro technical, medicine and chemical industry.

	Contact Information
* Contact person (first name, family name)	Mirzasultan Mamatrasulov
* Department / Laboratory	Solar Energy
* Position	Leading Scientist
* Qualification and research experience	PhD (Physics) works in IMS since 1998
* Post address (house, street, city, code, country)	village "Solntse", Parkent region, Tashkent 102226, UZBEKISTAN
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* E-mail	mirzasul@yahoo.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)

IMS has long-term and efficient partnership ties with academic research institutes and universities in France, Germany, USA, China, India, Egypt, Russia. In 2008 IMS is carrying out 4 international (bilateral and multilateral) projects: INTAS (1), STCU (2), Civil Research and Development Foundation, USA, (1).

In framework of Bilateral Programs "Uzbekistan-Russia'2007" and

“Uzbekistan-Korea’2007” IMS participates in 2 Joint Projects on study of structure and physico-chemicals properties of new materials.

Since 1996 IMS collaborates with partners from National Renewable Energy Laboratory, NREL, (Denver, USA), International Advanced Research Centre for Powder Metallurgy and New Materials, (Haydarabad, India), Gansu Natural Energy Research Institute, GNERI, (Gansu, China), Tabbin Institute for Metallurgical Studies, TIMS, Tabbin Helwau (Cairo, Egypt) on development of application of methods of research of large solar power installations, and extension of their functionalities.

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

* Summary of potential research project envisaged hosting of European researcher for the period of between 1 and 2 years
<p>IMS would like to invite European researches for a period of approx. 1 year to carry out joint researches in such scientific fields as materials science, physics, solar energy, laser physics. 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 IMS (See IMS 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