

QUESTIONNAIRE

(*) – mandatory fields

Details about organisation	
* Organisation name	Institute of Electronics of Uzbekistan Academy of Sciences
Organisation acronym	AIE
* Organisation Activity Type (RES - Research, HE - University, SME - Small and Medium Enterprise, IND - Industry, OTH - Other)	RES
* Keywords of main research areas	physical electronics, solid surface physics and chemistry adsorption, thermodesorption, various (ion, electron, photon) emission processes, ion scattering, sputtering, implantation, cluster formation, surface analysis and modification, segregation, thin-film growth.
* Head of organisation (first name, family name)	Khatam Ashurov
* Post code	100125
* Country	Uzbekistan
* City	Tashkent
* Street, House	Durmon Yuli Str., 33
* Telephone (+ country & city codes)	(+998-71)-2627940
* Fax (+ country & city codes)	(+998-71)-2628767
* E-mail	aie@aie.uz

* Description of organisation and its research achievements for the last five years (~ 5000 signs)
<p>The Arifov Institute of Electronics was established in 1967 on the basis of the electronics department of the Physical-Technical Institute (PhTI), Uzbek Academy of Sciences. The founder and first director of the Institute of Electronics was academician of Uzbek Academy of Sciences Ubay Arifovich Arifov. The studies of the Institute researchers are well known by scientific community according to hundreds of papers published in international journals, monographs. The Institute's developments are covered by 200 Inventor's Certificates and Patents, including over 30 foreign patents, and awarded with 23 gold, silver and bronze medals of diverse international exhibitions.</p> <p>Research Fields</p> <ul style="list-style-type: none"> • Adsorption and surface ionization of polyatomic molecules of organic and bioorganic compounds; kinetics of heterogeneous dissociation reactions of these molecules and desorption of their products in charged and neutral

states;

- Secondary processes while interacting atomic particles with energy from several eV to several tens keV with solid surface – ion, electron, photoelectron emission, scattering, sputtering, including cluster one, implantation, surface diagnostics and modification, segregation, thin film growth;
- Non-linear non-additive effects while interacting accelerated molecular ions with surface of metals, semiconductors and insulators;
- Development of ion-beam and plasma technologies for surface modification and processing of construction and semiconductor materials;
- Development of methods and devices to detect and analyze trace amounts of substances in diverse media;
- Growth and formation of cotton fiber structure with different physical methods, development of technologies and devices to denude and sort cotton seeds.

Currently, the staff the AIE includes 59 Scientists, 57 technicians and 29 managing personal. Among the AIE staff are: 2 academicians (member of Uzbekistan Academy of Sciences), 5 of Doctors of Sciences (equivalent of Prof.), and 24 Kandidates of Sciences (equivalent of PhD). Most of HPD research staff has good command English.

AIE Research Laboratories have unique equipment for investigation of physical and physico-chemical properties of materials. During the last 5 years AIE purchased new equipment of total cost of 60 mln Uzbek soms and 82000 USD.

	Contact Information
* Contact person (first name, family name)	Bakhtiyor Atabaev
* Department / Laboratory	Laboratory of ion and electron processes on surface
* Position	Head of laboratory
* Qualification and research experience	Kandidat of Sciences works in AIE since 1975
* Post address (house, street, city, code, country)	33, Durmon Yuli Str., Tashkent, 100125, Uzbekistan
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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)
AIE has long-term and efficient partnership ties with academic research

institutes and universities in Germany, USA, Italy, Austria, Russia. In 2008 AIE is carrying out 5 international (bilateral and multilateral) projects: INTAS (2), USA ID, Civil Research and Development Foundation USA, Bilateral project Internationales Buero BMBF (Germany).

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

* Summary of potential research project envisaged hosting of European researcher for the period of between 1 and 2 years
<p>AIE would like to invite European researches for a period of approx. 1 year to carry out joint researches in such scientific fields as physical electronics, surface ionization, condensation matter & semiconductors. 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 AIE (See AIE 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	03/06/2008