

Cooperation with International Institutions

Scientific & Technological Cooperation with International Institutions

Country	Institution	Subject of Cooperation
USA	Univ. of Florida	<ul style="list-style-type: none">– Preparation of Nano-materials– Phosphate ore flotation– New mineral characterization techniques– Water treatment through Sol-Gel techniques– Processing of Egyptian limestone
	Univ. of Utah	<ul style="list-style-type: none">– De-inking of newspapers– Using enzymes in mineral beneficiation– Fine grinding techniques– New process for SO₂ treatment
	Univ. of Wisconsin	<ul style="list-style-type: none">– Casting automotive components made of composite materials

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Scientific & Technological Cooperation with International Institutions

Country	Institution	Subject of Cooperation
USA	Univ. of Connecticut	– Production of boron nitride using laser
	Univ. of Kentucky	– Using Falcon technology for treatment of high sulphur Egyptian coal
	Michigan Technol. Univ.	– Using fly ash in foundry sand
	Univ. of Delaware	– Photocatalytic degradation – Synthesis characterization of nano-particles for catalytic applications
Malaysia	SIRIM	– Industrial rapid prototyping – Melting and casting of metals & alloys – New Materials
Bulgaria	Bulgaria Inst. Of Metals	– Production of submerged arc flux – Submerged arc melting & refining – High nitrogen steels
Austria	Austrian Research Inst.	– Cu / graphite composites

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Country	Institution	Subject of Cooperation
India	ARCI - Hyderabad	– Advanced materials
	Regional Research Center - Bhopal	– Detoxification of heavy metals from process water using mineral waste
	Indian Inst. of Science - Bangalore	– Bio-processing of minerals
Germany	Paderburn University Aachen University Fraunhofer IW, Freiburg	– Development of materials – Steel and ferro-alloys – Welding of Al alloys
	Japan	National Research Inst. Of Metals
Japan Welding Inst. Osaka Univ.		– Solid state joining of dissimilar materials (metals / ceramics) – Development of TIG welding tungsten electrodes – Welding of maraging steels

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Country	Institution	Subject of Cooperation
Slovakia	Inst. of Materials Research	– Mechanical alloying (ceramics / metal particulate composites)
Ukraine	Physico – Technical Inst. Of Materials & Alloys - Kiev	– Lost – foam casting / production of ductile iron by in – mold process / plasma & electron beam melting and casting technology / bimetallic casting / centrifugal casting of bimetallic pipes and billets / medical implant materials
	Inst. Of Problems of Material Science – Kiev. Titan Institute - Zabarogia	– Development of Al – Si alloys for aviation and airspace applications – Production of pure Si for semi conductors & solar cells – Production of Si metal form sands –Production of Mg from Egyptian ores

Bi-Lateral Funded Projects

Project Title	Country	Duration, Month	Start Date	Funding Organization	PI Name
Development of Water Desalination using Hybrid System	Germany	24	May 2014	STDF	El-Sayed Abdel-Aal
Liquid Membrane Assisted Leaching of Some Natural Ores for Improving Metals Extraction	Italy	24	Feb. 2009	Academy of Scientific Research and Technology	El-Sayed Abdel-Aal
Electrodeposition of Sr-Incorporated Hydroxyapatite Coatings on Titanium Implant	France	24	May 2011	Academy of Scientific Research and Technology	El-Sayed Abdel-Aal

Bi-Lateral Funded Projects (Continued)

Project Title	Country	Duration, Month	Start Date	Funding Organization	PI Name
Graphene/metal oxide electrode materials for lithium ion batteries as energy storage system	Bulgaria	24	Feb, 2013	Academy of Scientific Research	Dr. Atef Shenouda
Improvement of tin and copper tin sulphide compounds by antimony addition for photo electrochemical solar cell applications	Bulgaria	24	June 2016	Academy of Scientific Research	Dr. Atef Shenouda
