

**EU FRAMEWORK PROGRAMME 7  
NANOSCIENCES, NANOTECHNOLOGIES, MATERIALS,  
NEW PRODUCTION TECHNOLOGIES**

**PARTNER PROFILE FORM**

|           |  |
|-----------|--|
| Date:     | 6 February 2007  |
| Area:     | <input type="checkbox"/> Nanosci.&Nanotech. <input checked="" type="checkbox"/> Materials <input type="checkbox"/> New Production Technologies |
| Call:     | FP7-NMP-2007-LARGE-1, FP7-NMP-2007-SMALL-1,<br>FP7-NMP-2007-SME-1, FP7-NMP-2007-CSA-1  |
| Deadline: | -  |

**INFORMATION OF ORGANIZATION**

|  |   |
|--|---|
| Name of organization   | METU (MIDDLE EAST TECHNICAL UNIVERSITY)<br>METALLURGICAL & MATERIALS ENG. DEPT.<br>ANKARA - TURKEY  |
| Main researchers   | Prof. Cevdet KAYNAK and his MS, PhD, Post-Doc researchers   |
| Organization type  | <input type="checkbox"/> Consultancy <input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input checked="" type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input type="checkbox"/> >250   |
| Short description of organization (main research activities) | Polymer based nanocomposites reinforced with clays (layered silicates), carbon nanotubes, etc.<br>Their production methods and process parameters.<br>Their mechanical, thermal, fire resistance behaviour.   |
| Topic in the Work programme                                  | NMP-2007-2.1-1 Nanostructured polymer matrix composites   |
| Expertise offered  | Production and characterization of these Polymer Nanocomposites.<br>Testing (mechanical, thermal, fire) and evaluation of these Polymer Nanocomposites.   |
| International cooperation and partnership                    |   |
| International projects already undertaken                    | .   |

**CONTACT DETAILS**

|                |   |
|----------------|---|
| Name, Surname: | Prof. Cevdet KAYNAK   |
| Address:       | METU Metallurgical & Materials Eng. Dept.<br>TR-06531 Ankara - TURKEY |
| Phone:         | + 90 312 210 5920   |
| Fax:           | + 90 312 210 2518   |
| Web:           | www.metu.edu.tr/~ckaynak  |
| e-mail:        | ckaynak@metu.edu.tr   |

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NEW PRODUCTION TECHNOLOGIES**

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|-----------|---|
| Date:     | January, 30 <sup>th</sup> , 2007  |
| Area:     | <input type="checkbox"/> Nanosci.&Nanotech. <input checked="" type="checkbox"/> Materials <input checked="" type="checkbox"/> New Production Technologies |
| Call:     | FP7-NMP-2007-LARGE-1  |
| Deadline: | December, 2007  |

| INFORMATION OF ORGANIZATION                                  |   |
|--|---|
| Name of organization   | Trakya University   |
| Main researchers   | Dr.E.Selcuk ERDOGAN, Dr. Mustafa OKSUZ (Marmara University), Dr. F. Bulent YILMAZ(Mersin University), Res. Ass.Umit HUNER, Res. Ass.Olcay EKSI  |
| Organization type  | <input type="checkbox"/> Consultancy <input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input checked="" type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input type="checkbox"/> >250   |
| Short description of organization (main research activities) | Research, Education<br>Thermoplastic Composites, Co-generation, Welding of Metals, Plastic Forming of Metals, Fluid dynamics  |
| Topic in the Work programme                                  | NMP-2007-4.1  |
| Expertise offered  | Wood dust reinforced thermoplastics, Thermoplastic Extrusion, Thermoplastic Stamp forming, Thermoplastic welding, Thermoplastic injection moulds, Mould Design, Rics husk reinforcement, Straw dust reinforcement   |
| International cooperation and partnership                    | none  |
| International projects already undertaken                    | none  |

| CONTACT DETAILS |   |
|-----------------|---|
| Name, Surname:  | E. Selcuk ERDOGAN   |
| Address:        | Trakya University, Mechanical Engineering Department, A.Karadeniz Campus, Edirne-TURKEY                                       |
| Phone:          | +90 284 226 12 17,18, 19, 20, 21, 22, 23 ext 2106   |
| Fax:            | +90 284 226 12 25   |
| e-mail:         | <a href="mailto:eselcuk@trakya.edu.tr">eselcuk@trakya.edu.tr</a> , <a href="mailto:selcukee@oo.co.uk">selcukee@oo.co.uk</a> , |

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**PARTNER PROFILE FORM**

|           |   |
|-----------|---|
| Date:     | February 2, 2007  |
| Area:     | X <input type="checkbox"/> Nanosci.&Nanotech. X <input type="checkbox"/> Materials X <input type="checkbox"/> New Production Technologies |
| Call:     | FP7-NMP-2007-LARGE-1, FP7-NMP-2007-SMALL-1, FP7-NMP-2007-SME-1, FP7-NMP-2007-CSA-1  |
| Deadline: | 2012  |

| INFORMATION OF ORGANIZATION                                  |   |
|--|---|
| Name of organization   | ESKISEHIR OSMANGAZI UNIVERSITY  |
| Main researchers   |   |
| Organization type  | <input type="checkbox"/> Consultancy <input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME   |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input checked="" type="checkbox"/> >250   |
| Short description of organization (main research activities) | Faculty of Arts and Sciences of Eskisehir Osmangazi University, at our department, semiconductor materials are produced and characterized.  |
| Topic in the Work programme                                  | NMP-2007-1.2-1 Pilot lines to study, develop and up-scale nanotechnology-based processes from laboratory,<br>NMP-2007-1.2-2 Equipment and methods for nanotechnology,<br>NMP-2007-1.2-4 Coordination in nanometrology,<br>NMP-2007-1.3-1 Specific, easy-to-use portable devices for measurement and analysis,<br>NMP-2007-1.3-2 Risk assessment of engineered nanoparticles on health and the environment,<br>NMP-2007-1.3-3 Scientific review of the data and studies on the potential impact of engineered nanoparticles on health, safety and the environment,<br>NMP-2007-1.3-4 Creation of a critical and commented database on the health, safety and environmental impact of nanoparticles,<br>NMP-2007-1.3-5 Coordination in studying the environmental, safety and health impact of engineered nanoparticles and nanotechnology based materials and products,<br>NMP-2007-2.1-2 Nanostructured coatings and thin films<br>NMP-2007-2.1-3 Characterization of nanostructured materials<br>NMP-2007-2.2-3 Advanced material architectures for energy conversion. |
| Expertise offered  | Characterization of semiconductor and metal thin films by AFM/STM, SEM, BEEM, XRD.<br>Production of semiconductor thin films by spray pyrolysis method, chemical bath deposition technique, electrochemical deposition technique, vacuum evaporation technique,<br>Production of metal thin films by Vacuum Evaporation Techniques.<br>Design and construction of STM in the air, STM and BEEM in UHV, UHV (Ultra High Vacuum) systems.<br>Investigation of effects of Electromagnetic waves to the brain,<br>Study of effects of asbestos to the lung  |

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|   |   |
|---|---|
|   |   |
| International cooperation and partnership | Nagoya University, Graduate school of Engineering, Japan  |
| International projects already undertaken | <ol style="list-style-type: none"><li>1. <i>Study of Metal-Vacuum Interface by Ballistic-Electron Emission Microscopy</i>, OFFICE OF NAVAL RESEARCH (USA) Projesi, Contract No. N00014-92-J-1141, 1993,</li><li>2. <i>Nano-process Technology for Highly Functional Materials and Devices</i>, Graduate School of Engineering, Nagoya University, JAPAN, July 2-November 2,2001, Research Fellow.</li></ol> |

| CONTACT DETAILS |  |
|-----------------|--|
| Name, Surname:  | M. Celalettin BAYKUL   |
| Address:        | Eskisehir Osmangazi University, Faculty of Arts and Sciences, Meselik Campus, 26480 ESKISEHIR/TURKEY |
| Phone:          | +90(222) 239 3750 Ext. 2811      Mobile Phone: +90(533) 226 9435                                     |
| Fax:            | +90 (222) 225 4155   |
| e-mail:         | <a href="mailto:cbaykul@ogu.edu.tr">cbaykul@ogu.edu.tr</a>   |

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|-----------|--|
| Date:     | 20-2-2007  |
| Area:     | <input type="checkbox"/> Nanosci.&Nanotech. <input type="checkbox"/> Materials <input checked="" type="checkbox"/> New Production Technologies |
| Call:     | (FP7-NMP-2007-LARGE-1, FP7-NMP-2007-SMALL-1, FP7-NMP-2007-SME-1, FP7-NMP-2007-CSA-1)   |
| Deadline: | 31 December 2007   |

**INFORMATION OF ORGANIZATION**

|  |  |
|--|--|
| Name of organization   | Middle East Technical University Metallurgical and Materials Eng.  |
| Project Team   | Ekrem Selçuk, Arda Çetin, Gökhan Türkyılmaz, Seda Sayılğan   |
| Organization type  | <input type="checkbox"/> Consultancy <input type="checkbox"/> Research <input type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input checked="" type="checkbox"/> Other <input type="checkbox"/> SME |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input checked="" type="checkbox"/> >250  |
| Short description of organization (main research activities) | Thermal analysis of cast iron and aluminum alloys, Near net shape casting of continuous products aluminum and mmc's Spray Rolling, Powder metallurgy Squeeze casting and thixo casting, Hot extrusion of aluminum alloys   |
| Topic in the Workprogramme                                   | New Production Technologies  |
| Expertise offered  | Near net shape casting and processing aluminum and mmc's composites  |
| International cooperation and partnership                    | BAS Bulgarian academy of Science   |
| International projects already undertaken                    | Tubitak BAS Project 102M101 on Hot Extrusion of PM AlFeVSi Alloy   |

**CONTACT DETAILS**

|                |   |
|----------------|---|
| Name, Surname: | Ali Kalkanlı  |
| Address:       | Middle East Technical University Metallurgical and Materials Engineering<br>Dept 06531 İnönü Bulvarı Ankara |
| Phone:         | 2105929   |
| Fax:           | 2102518   |
| e-mail:        | kalkanli@metu.edu.tr  |

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|-----------|---|
| Date:     | February 15, 2007   |
| Area:     | X <input type="checkbox"/> Nanosci.&Nanotech. X <input type="checkbox"/> Materials <input type="checkbox"/> New Production Technologies |
| Call:     | FP7-NMP-2007-LARGE-1, FP7-NMP-2007-SMALL  |
| Deadline: | 2009  |

| INFORMATION OF ORGANIZATION                                  |  |
|--|--|
| Name of organization   | Yıldız Technical University (YTU)  |
| Main researchers   | S. Piskin, Ö. Dogan, E. Akyol, U. Uysal, B. Akin, S. Kirboga   |
| Organization type  | <input type="checkbox"/> Consultancy    X <input type="checkbox"/> Research    X <input type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME  |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249    X <input type="checkbox"/> >250  |
| Short description of organization (main research activities) | Nanostructured inorganic materials and inorganic-polymer hybrids, fuel cell, supercritical extraction, biotechnology   |
| Topic in the Work programme                                  | NMP-2007-2.1.1, NMP-2007-2.3.1,  |
| Expertise offered  | Nanostructured inorganic materials and inorganic-polymer hybrids are known for their good mechanical and thermal properties. Such hybrid materials can be prepared by means of controlled crystallization. Hydroxyapatite-based implantation materials have almost the same chemical composition as an inorganic component of human bone, and demonstrate an excellent biocompatibility with hard tissues. Due to its microporous structure, hydroxyapatite can ensure a slow release of incorporated drug. Such types of drug delivery systems used in the treatment of osteitis, rheumatism, bone tumors and osteoporosis. |
| International cooperation and partnership                    |  |
| International projects already undertaken                    | Project No:105M329 Kostas Demadis, University of Crete, Greece   |

| CONTACT DETAILS |  |
|-----------------|--|
| Name, Surname:  | Mualla Öner  |
| Address:        | YTU Chemical Engineering Department Davutpasa Campus, İstanbul, TURKEY |
| Phone:          | 90 212 449 1922  |
| Fax:            | 90 212 449 1895  |
| e-mail:         | oner@yildiz.edu.tr   |

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| Date:     | 31 Jan. 07  |
| Area:     | <input checked="" type="checkbox"/> Nanosci.&Nanotech. <input checked="" type="checkbox"/> Materials <input type="checkbox"/> New Production Technologies |
| Call:     | FP7-NMP-2007-SMALL-1  |
| Deadline: | 01 July 2008  |

| INFORMATION OF ORGANIZATION                                  |   |
|--|---|
| Name of organization   | Dumlupinar University   |
| Main researchers   |   |
| Organization type  | <input type="checkbox"/> Consultancy <input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME   |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input checked="" type="checkbox"/> >250   |
| Short description of organization (main research activities) | Ceramic Engineering Department of Dumlupinar University is focused on the synthesis and development of nanocrystalline ceramics especially stabilized zirconia and cordierite that are important materials for energy conversion in the automobile industry. They will be more crucial materials in the near future. Our department has ability to synthesis and characterize of such materials with tailored properties for the specific needs.  |
| Topic in the Work programme                                  | NMP-2007-2.2-3 Advanced material architectures for energy conversion  |
| Expertise offered  | Our organization has hands on experience nanocrystalline ceramic powders synthesis. We are used simple sol-gel methods as well as supercritical fluids methods to produce weakly agglomerated nanoparticles. We acquired wide knowledge regarding to dispersion of nanoparticles from FP6 Strep project that we involved in the last three years. We believe that our capability to produce nanoparticles with their dispersion will be helpful to obtain new materials with tailored properties for the industry. In addition, colloidal processing of nanocrystalline ceramic is also our main interest.. |
| International cooperation and partnership                    | EADS, CIDETEC, Teer Coatings, SUT, NTUA, TUC, IMN   |
| International projects already undertaken                    | -FP6 STREP "ACTIVATION" "Super energy high milling in the production of hard alloys, ceramic and composite materials"<br>-Japan Society of the Promotional Sci. supported fellowship project<br>- Stocholm university "Dental Bridge" project   |

| CONTACT DETAILS |  |
|-----------------|--|
| Name, Surname:  | Hasan Gocmez   |
| Address:        | Dumlupinar University, Ceramic Eng. Dept. Kutahya, TURKEY                  |
| Phone:          | +902742652031X4308   |
| Fax:            | +902742652066  |
| e-mail:         | <a href="mailto:h_gocmez@dumlupinar.edu.tr">h_gocmez@dumlupinar.edu.tr</a> |

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|           |  |
|-----------|--|
| Date:     | 20 Feb. 07   |
| Area:     | <input type="checkbox"/> Nanosci.&Nanotech. <input checked="" type="checkbox"/> Materials <input type="checkbox"/> New Production Technologies |
| Call:     | FP7-NMP-2007-SMALL-1 , FP7-NMP-2007-LARGE-1  |
| Deadline: | Till end of 2010   |

| INFORMATION OF ORGANIZATION                                  |  |
|--|--|
| Name of organization   | Yildiz Technical University, Faculty of Chemistry - Metallurgy, Department of Metallurgical and Materials Engineering.   |
| Main researchers   | Assistant Professor. Dr. Ahmet SAGIN   |
| Organization type  | <input type="checkbox"/> Consultancy <input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME  |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input checked="" type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input type="checkbox"/> >250  |
| Short description of organization (main research activities) | The above mentioned department has several research activities as, mechanical metallurgy testing, corrosion , pvd coating, casting, composites, extractive metallurgy ,biomedical hip implantation (Ti alloys) production and testing.   |
| Topic in the Work programme                                  | NMP-2007-2.1-2 , NMP-2007-1.1-1 , NMP-2007-1.2-1   |
| Expertise offered  | <p>The researcher 's former study titles are given below. With these experiences he wishes to participate in a project.</p> <p>The Production and Properties of Fly Ash Containing Aluminum Matrix Composite Materials</p> <p>Production Of Austempered Ductile Iron Gears For Transmission Cases</p> <p>Nitriding of a 42CrMo4 and a 34CrAlNi7 Steel in a Fluidized Bed Furnace</p> <p>A Review for Martempering</p> <p>Effect of Nitration on Corrosion Behavior of Steels</p> <p>Austempering Ductile Iron and Investigation on Austempering Parameters</p> <p>Effect of Austempering on Steel Cast Materials By Means Of Microstructure and Mechanical Properties.</p> <p>Change in Yield Strength and Fracture Toughness As A Result of Two-Step Austempering And Effect of PVD Surface Modification on High Cycle Fatigue Failure.</p> |

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|                                      |  |
|--------------------------------------|--|
|                                      | <p>Relationship Between Austempering and Wear,Contact,Fatigue and Corrosion</p> <p>Investigation of Fatigue Behavior of Austempered Ductile Iron Gears<br/>Tribological Properties of Composite Brake Materials Used In Automobile Industry</p> <p>Investigation of Influence of On Ti Alloy Implantations by Plazma Spray Coating.</p> <p>Application of Magnesium and Its Alloys In Automobile Industry.<br/>Investigation of Fatigue Behavior of Biomedical Bone Implantations<br/>Investigation of Fatigue Behavior of Austempered Ductile Iron By Protective Coatings</p> <p>Investigation of TiO/Ti-N Dublex Coating Methods Applied To Titanium Alloys By Means Of Biomedical Material.</p> <p>Developing Slurry Coating Systems Which Combines Micro and Nano Particles Both For High and LowTemperature Applications To Provide Multifunctionel Coatings For Aero Structures.</p> <p>Development of Light-Weight ,Forged Aerospace Components From Alumium – Lithium,Magnesium, Titanium, Steel and Their Alloys and Composites And Protective Coating For Them.</p> <p>Investigation of Manufacturing and Applications of Polyurethane (PUR) Foam Used In Aerospace Industry</p> |
| National cooperation and partnership | TUBITAK, T.R.Prime Ministry State Planning Organization (SPO)  |
| National projects already undertaken | <p>. “Production Of Austempered Ductile Iron Silent Gears For Transmission Cases” This Project was held with Turkish Army Logistics Group “1013 Ordu Donatım” sponsoreship.</p> <p>“Production of Biomedical Bone Implantations” T.R.Prime Ministry State Planning Organization (SPO) is sponsoring.</p>   |

| CONTACT DETAILS |   |
|-----------------|---|
| Name, Surname:  | AHMET SAGIN   |
| Address:        | Yildiz Technical University, Faculty of Chemistry - Metallurgy, Department of Metallurgical and Materials Engineering. Davutpasa Kampusu 34210 Esenler/Istanbul |
| Phone:          | +902124491655   |
| Fax:            | +902124491554 , +902124491655   |
| e-mail:         | <a href="mailto:ahsagin@gmail.com">ahsagin@gmail.com</a> , <a href="mailto:ahmets@yildiz.edu.tr">ahmets@yildiz.edu.tr</a>                                       |

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| Date:     | January 30, 2007  |
| Area:     | <input checked="" type="checkbox"/> Nanosci.&Nanotech. <input type="checkbox"/> Materials <input checked="" type="checkbox"/> New Production Technologies |
| Call:     | FP7-NMP-2007-LARGE-1, FP7-NMP-2007-SMALL-1, FP7-NMP-2007-CSA-1  |
| Deadline: | :January 30, 2010   |

| INFORMATION OF ORGANIZATION                                  |   |
|--|---|
| Name of organization   | The University of Istanbul, Veterinary Faculty  |
| Main researchers   |   |
| Organization type  | <input type="checkbox"/> Consultancy <input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input checked="" type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input type="checkbox"/> >250   |
| Short description of organization (main research activities) | Diagnosis, therapy, prevention and control of viral diseases affecting animals and man  |
| Topic in the Work programme                                  | <u>NMP-2007-1.2-1, NMP-2007-4.4</u>   |
| Expertise offered  | Antivirals, diagnostic kits and vaccines  |
| International cooperation and partnership                    | Collaboration with the Veterinary School of Bristol and Liverpool   |
| International projects already undertaken                    | MC in the COST 929-food and environmental virology  |

| CONTACT DETAILS |  |
|-----------------|--|
| Name, Surname:  | Professor Huseyin Yilmaz                   |
| Address:        | University of Istanbul, Veterinary Faculty |
| Phone:          | +90 212 4737070 (17069)                    |
| Fax:            | +90 212 4737241                            |
| e-mail:         | Hyilmaz@istanbul.edu.tr                    |

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|-----------|--|
| Date:     | 29.01.2007   |
| Area:     | <input type="checkbox"/> Nanosci.&Nanotech. <input checked="" type="checkbox"/> Materials <input type="checkbox"/> New Production Technologies |
| Call:     | First calls of NMP Thematic Area   |
| Deadline: | December 2007  |

| INFORMATION OF ORGANIZATION                                  |   |
|--|---|
| Name of organization   | Izmir Institute of Technology   |
| Main researchers   | Prof. Mustafa Guden and his team  |
| Organization type  | <input type="checkbox"/> Consultancy <input checked="" type="checkbox"/> Research <input type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME  |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input checked="" type="checkbox"/> >250   |
| Short description of organization (main research activities) | <p>Processing, characterization and mechanical testing of metallic porous materials for biomedical and structural applications. The materials under interest include Ti and Ti-alloy powder compacts and foams and Al-closed cell foams.</p> <p>Development of natural filler materials for polymers. Main activity in this field is concentrated on the use of diatom silica frustules as filler in epoxy.</p> |
| Topic in the Work programme                                  |   |
| Expertise offered  | Powder processing, microstructure characterization with XRD, SEM, AFM and nano-indentation and quasi-static and high strain rate mechanical testing.  |
| International cooperation and partnership                    |   |
| International projects already undertaken                    | "Wave propagation in multi-layer materials" Funded by TUBITAK and NSF   |

| CONTACT DETAILS |  |
|-----------------|--|
| Name, Surname:  | Prof. Mustafa Guden  |
| Address:        | Izmir Institute of Technology, Gulbahce, Urla Izmir, Turkey  |
| Phone:          | +90-232-7507816  |
| Fax:            | +90-232-7507890  |
| e-mail:         | <a href="mailto:mustafaguden@iyte.edu.tr">mustafaguden@iyte.edu.tr</a> ( <a href="http://www.iyte.edu.tr/~mustafaguden/">http://www.iyte.edu.tr/~mustafaguden/</a> ) |

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**EU FRAMEWORK PROGRAMME 7  
NANOSCIENCES, NANOTECHNOLOGIES, MATERIALS,  
NEW PRODUCTION TECHNOLOGIES & ENERGY**

**PARTNER PROFILE FORM**

|           |  |
|-----------|--|
| Date:     | 20.02.2007   |
| Area:     | <input checked="" type="checkbox"/> Nanosci.&Nanotech. <input checked="" type="checkbox"/> Materials <input checked="" type="checkbox"/> Energy <input type="checkbox"/> New Production Technologies |
| Call:     | FP7-NMP-2007-LARGE-1, FP7-NMP-2007-SMALL-1, FP7-NMP-2007-CSA-1, FP7-ENERGY-2007-1-RTD, FP7-ENERGY-2007-2-TREN  |
| Deadline: | 01.12.2008   |

| INFORMATION OF ORGANIZATION                                  |  |
|--|--|
| Name of organization   | Istanbul Technical University<br>Polymer Science & Technology  |
| Main researchers   | Prof.Dr.A.Sezai SARAC & ELECTROPOL RESEARCH GROUP<br><a href="http://atlas.cc.itu.edu.tr/~sarac/">http://atlas.cc.itu.edu.tr/~sarac/</a><br><a href="http://www.kimya.itu.edu.tr/saraca/">http://www.kimya.itu.edu.tr/saraca/</a>  |
| Organization type  | <input type="checkbox"/> Consultancy <input checked="" type="checkbox"/> Research <input checked="" type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME  |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input checked="" type="checkbox"/> >250  |
| Short description of organization (main research activities) | Development of electrocoating & electropolymerization of conjugated(conductive) polymeric systems, applications of these into electrochromics, biosensor, electrochemically prepared nanocomposites, Carbon based supercapacitors .and Nanoscale characterizations of these surfaces, i.e. spectroscopic (FTIRATR, XPS), electrochemical (Potentiodynamic methods, CV, EIS-Electrochemical Impedance Spectroscopy, DPV), morphologic (AFM, STM, SEM) |
| Topic in the Work programme                                  | NMP-2007-1.2-1, NMP-2007-2.1-1, NMP-2007-2.2-1, NMP-2007-2.3-1, NMP-2007-4.4, NMP-2007-2.1-2, NMP-2007-2.2-3, NMP-2007-2.4-2, NMP-2007-2.1-3, FP7-ENERGY-2007-1-RTD, FP7-ENERGY-2007-2-TREN  |
| Expertise offered  | Conjugated polymer nanocoatings, Electrochemical polymer coatings, nanocomposites, Electrochemical Surface characterizations, Application of Electrochemically modified Carbon fiber Microelectrodes as Dopamine biosensor, Conjugated Polymer Modified Carbon based Supercapacitors, electrochromic polymers  |

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|   |   |
|---|---|
|   |   |
| International cooperation and partnership | <ul style="list-style-type: none"><li>• University of Potsdam ,Institute of Physics,Am Neuen Palais 10, 14469, Potsdam,Germany</li><li>• Institute of Thin Film Technology and Microsensoric Technologies - Teltow (IDM), Institut für Dünnschichttechnologie und mikrosensorik e.V.Forschungsstandort ,Teltow D-14513 Teltow Germany</li></ul> |
| International projects already undertaken | Bilateral DFG and DAAD Projects   |

| CONTACT DETAILS |   |
|-----------------|---|
| Name, Surname:  | Prof. Dr. A.Sezai <b>SARAC</b>  |
| Address:        | Istanbul Technical University, Director of Polymer Science &Technology ,Department of Chemistry Maslak 34465 Istanbul /TURKEY |
| Phone:          | +90-212-2853153   |
| Fax:            | +90- <a href="tel:+902122856386">212-2856386</a>  |
| e-mail:         | <a href="mailto:sarac@itu.edu.tr">sarac@itu.edu.tr</a>  |

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**EU FRAMEWORK PROGRAMME 7  
NANOSCIENCES, NANOTECHNOLOGIES, MATERIALS,  
NEW PRODUCTION TECHNOLOGIES**

**PARTNER PROFILE FORM**

|           |   |
|-----------|---|
| Date:     | 20/02/1007  |
| Area:     | <input type="checkbox"/> Nanosci.&Nanotech. <input checked="" type="checkbox"/> Materials <input checked="" type="checkbox"/> New Production Technologies |
| Call:     | First calls of NMP  |
| Deadline: | December 2007   |

| INFORMATION OF ORGANIZATION                                  |  |
|--|--|
| Name of organization   | MATERIALS INSTITUTE, MARMARA RESEARCH CENTER   |
| Main researchers   | YUCEL BIROL and his team   |
| Organization type  | <input type="checkbox"/> Consultancy <input checked="" type="checkbox"/> Research <input type="checkbox"/> Education <input type="checkbox"/> Industry <input type="checkbox"/> Technology Transfer<br><input type="checkbox"/> Non-Commercial <input type="checkbox"/> Other <input type="checkbox"/> SME   |
| Organization Size (employees)                                | <input type="checkbox"/> < 10 <input type="checkbox"/> 10-49 <input type="checkbox"/> 50-99 <input type="checkbox"/> 100-199<br><input type="checkbox"/> 200-249 <input checked="" type="checkbox"/> >250  |
| Short description of organization (main research activities) | <p>Materials Institute (MI) of the Marmara Research Center (MRC: <a href="http://www.mam.gov.tr">http://www.mam.gov.tr</a>), the largest Industrial R&amp;D complex in Turkey, aims to increase the global competitiveness of the Turkish Materials industry by delivering contract research projects, industrial testing and characterization services and technical training.</p> <p>Aluminium Processing Group of MI performs research and development projects in the following fields:<br/>           Down stream processing of aluminum sheet, foil and extrusion profiles;<br/>           Processing of twin roll cast aluminium strip for automotive structural applications;<br/>           Rapid solidification processing of aluminum alloys for the manufacture of microcrystalline aluminium alloys and nanocomposites;<br/>           Semi-solid processing of cast and wrought aluminium alloys;<br/>           Optimization of refination practices for aluminum foundries;<br/>           Processing and characterization of fluxes, grain refiners and master alloys for aluminum foundries;<br/>           Processing of cast composites;<br/>           Recycling of aluminum scrap.</p> |

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|   |   |
|---|---|
|   | Having been engaged in a number of EUREKA and COST projects, the group is experienced in international cooperation and works very closely with the Association of Automotive Manufacturers and Turkish Aluminium Industrialists Association to achieve networking between the aluminium and automotive communities in Turkey to promote the lightweighting initiatives in the automotive industry.  |
| Topic in the Work programme               |   |
| Expertise offered                         | Down stream processing of aluminum sheet, foil and extrusion profiles;<br>Processing of twin roll cast aluminium strip for automotive structural applications;<br>Rapid solidification processing of aluminum alloys for the manufacture of microcrystalline aluminium alloys and nanocomposites;<br>Semi-solid processing of cast and wrought aluminium alloys;<br>Optimization of refinement practices for aluminum foundries;<br>Processing and characterization of fluxes, grain refiners and master alloys for aluminum foundries;<br>Processing of cast composites;<br>Recycling of aluminum scrap. |
| International cooperation and partnership | The Group has undertaken several EUREKA and COST projects.  |
| International projects already undertaken | E! 2530 CONTCASTALTRANS<br>E! 1824 FINSTOCKS<br>COST 541 THIXOSTEEL   |

| CONTACT DETAILS |  |
|-----------------|--|
| Name, Surname:  | YUCEL BIROL  |
| Address:        | MATERIALS INSTITUTE, MARMARA RESEARCH CENTER, TUBITAK, GEBZE KOCAELİ 41470 |
| Phone:          | 90 262 6773084   |
| Fax:            | 90 262 6412309   |
| e-mail:         | Yucel.biol@mam.gov.tr  |

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