
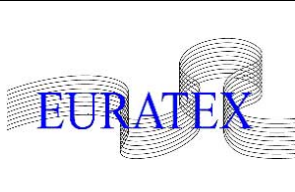


## Expressions of Interest

**Targeting various FP7 2011 topics**


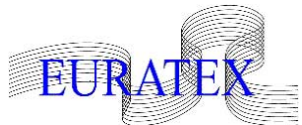
**17 September 2010**

	<p>European Technology Platform for the Future of Textiles and Clothing</p> <p><b>Textile Project Proposal Information Exchange System (TEPPIES)</b></p>	
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Expression of Interest for Preparation of a Project Proposal

TEPPIES **pre-call** n° 01-2010


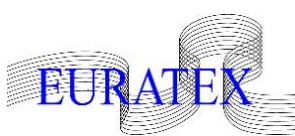
Call Identification					
	Call n°	Opening Date	Tentative Closing Dates		
TEPPIES	01-2009	29/06/2010	<b>29/07/2010</b>		
EC	FP7-NMP-2010	Late July 2010	04/11/2010		
Proposer Identification					
Prime proposer organisation	Ghent University				
Key industry partners					
Key research partners	EMPA, EAWAG				
Proposal Information					
Project acronym (optional)					
Full project working title	Functionalised nanofibrous membranes for water filtration				
EC workprogramme topic	<b>NMP.2011.1.2-3 - Active nanomembranes/filters/adsorbents for efficient water treatment with stable or regenerable low-fouling surfaces</b>				
<i>Non-confidential abstract (max. 100 words):</i>					
<p>Nanofibrous structures are valuable possible candidates for nanomembranes in water treatment. They offer a small pore size with high possible flux levels. A first major objective is the appropriate upscaling of the relevant polymer based membranes. Focus is to be given to stable electrospinning processes of the polymers with an added value in water treatment. A second important objective is to functionalise the nanofibrous membranes towards the aimed applications as to maximise the water treatment efficiency. Various routes will be followed as to allow for a versatile end-product. The central key target thus is an economic upscaling of the nanofibrous membranes with optimal functionalization for selected end-applications. This is to be validated by various end-users taking a full life cycle analysis into account.</p>					
Partner Search (optional)					
Search n°	1	Partner type	Industry		
<i>Short description of profile (competences required, geographic origin etc., max 100 words):</i>					
Water filter producing company					
Search n°	2	Partner type	Industry		
<i>Short description of profile (competences required, geographic origin etc., max 100 words):</i>					
End-user of water treatment processes					
Search n°	3	Partner type	Industry/Research/		
<i>Short description of profile (competences required, geographic origin etc., max 100 words):</i>					
Competence required : life cycle analysis					
Contact for this Expression of Interest					
Title	Prof.	First name	Karen	Name	De Clerck
Organisation name	Ghent University/Department of Textiles				
E-mail address	Karen.DeClerck@UGent.be		Direct phone number	+32 (0)9 264 5740	

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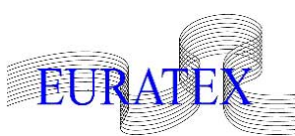
TEPPIES pre-call n° 01-2010

Call Identification			
	Call n°	Opening Date	Tentative Closing Dates
TEPPIES	01-2009	29/06/2010	<b>29/07/2010</b>
EC	FP7-NMP-2010	Late July 2010	04/11/2010
Proposer Identification			
Prime proposer organisation	CETEMMSA Technological centre		
Key industry partners			
Key research partners			
Proposal Information			
Project acronym (optional)	π-energy		
Full project working title	π-energy		
EC workprogramme topic	NMP.2011.4.0-3 Advanced textiles for the energy and environmental protection markets		
<p>Textiles constitute optimum structures to implement photovoltaic and piezoelectric systems for the generation of electric energy due to the large area in which they are used in industrial, traffic, architectural, engineering and apparel applications, where they are subjected to large amount of sunlight, motion, vibration, torsion and strain due to wind effects, sea movements (waves, etc.), body motion, etc.</p> <p>Flexible energy harvesting solutions like amorphous silicon solar cell allow decreasing the size of the batteries by continuously providing an energy source in bright conditions. However, laminated PV on textile often lack of comfort and it is desirable to use intrinsic photovoltaic textiles by printing the organic active layers directly on the fabric. In this area, efficiency is an aspect which is seen as having a margin of improvement.</p> <p>Another solution which can be suitable for wearable electronic energy supply is piezoelectric device. Some polymer such as PVDF present piezoelectric properties after poling, and these polymers can be wet process and used by printing/coating techniques to produce piezoelectric textiles. Another way of producing piezoelectric textile is via piezoelectric fibers. Although they would be highly desirable to harvest energy from body motion, especially in dark conditions when photovoltaic is not delivering energy, these fibers are however still unsatisfactory for their application in smart textiles.</p> <p>The project π-energy therefore propose to combine both energy harvesting solutions in a sole textile able to harvest ambient light via improvement of photovoltaic textiles, and also able to harvest body motion of the wearer via piezoelectric textile.</p>			
Partner Search (optional)			
Search n°		Partner type	Industry/Research/Other <i>(delete the unnecessary)</i>
<i>Short description of profile (competences required, geographic origin etc., max 100 words):</i>			
Contact for this Expression of Interest			
Title	Ms	First name	Margelí
Name	M <sup>o</sup> Carmen		
Organisation name	CETEMMSA Technological Centre		
E-mail address	<a href="mailto:cmargeli@cetemmsa.com">cmargeli@cetemmsa.com</a>	Direct phone number	0034937419100

	<p>European Technology Platform for the Future of Textiles and Clothing</p> <p><b><u>Textile Project Proposal Information Exchange System (TEPPIES)</u></b></p>	
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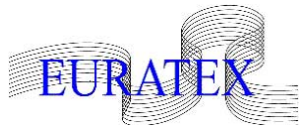
Expression of Interest for Preparation of a Project Proposal  
TEPPIES **pre-call** n° 01-2010

Call Identification			
	Call n°	Opening Date	Tentative Closing Dates
TEPPIES	01-2009	29/06/2010	<b>29/07/2010</b>
EC	FP7-NMP-2010	Late July 2010	04/11/2010
Proposer Identification			
Prime proposer organisation	CETEMMSA Technological Centre		
Key industry partners			
Key research partners			
Proposal Information			
Project acronym (optional)	BIOPLAT		
Full project working title	Nanostructured electrodes for biocompatible medical devices		
EC workprogramme topic	NMP.2011.1.4-4 Nanotechnology based implantable and interfaceable devices		
<p>The main goal of the project is to enhance the performance of biomedical electrochemical devices intended for long-term contact or implantations in living tissue. Thus, surface modification at the nanoscale will be used with the aim of obtaining electrically stable electrodes which would be biocompatible for long life. Resultant biocompatible electrodes will show improved sensitivity and selectivity, as well as minimum voltage requirement for organ stimulation.</p> <p>The interaction between soft, organic human tissue and inorganic metal wires will be improved taking advantage of nanostructured coatings over the electrode surface.</p>			
Partner Search (optional)			
Search n°		Partner type	Industry/Research/Other <i>(delete the unnecessary)</i>
<i>Short description of profile (competences required, geographic origin etc., max 100 words):</i>			
Contact for this Expression of Interest			
Title	Ms	First name	Margelí
Name	M <sup>a</sup> Carmen		
Organisation name	CETEMMSA Technological Centre		
E-mail address	<a href="mailto:cmargeli@cetemmsa.com">cmargeli@cetemmsa.com</a>	Direct phone number	0034937419100

	<p>European Technology Platform for the Future of Textiles and Clothing</p> <p><b><u>T</u><u>e</u><u>x</u><u>t</u><u>i</u><u>l</u><u>e</u> <u>P</u><u>r</u><u>o</u><u>j</u><u>e</u><u>c</u><u>t</u> <u>P</u><u>r</u><u>o</u><u>p</u><u>o</u><u>s</u><u>a</u><u>l</u> <u>I</u><u>n</u><u>f</u><u>o</u><u>r</u><u>m</u><u>a</u><u>t</u><u>i</u><u>o</u><u>n</u><u> </u><u>E</u><u>x</u><u>c</u><u>h</u><u>a</u><u>n</u><u>g</u><u>e</u> <u>S</u><u>y</u><u>s</u><u>t</u><u>e</u><u>m</u> (TEPPIES)</b></p>	
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Expression of Interest for Preparation of a Project Proposal  
TEPPIES **pre-call** n° 01-2010


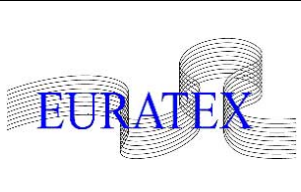
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	Call n°	Opening Date	Tentative Closing Dates		
TEPPIES	01-2009	29/06/2010	<b>29/07/2010</b>		
EC	FP7-NMP-2010	Late July 2010	04/11/2010		
Proposer Identification					
Prime proposer organisation	CETEMMSA Technological Centre				
Key industry partners					
Key research partners					
Proposal Information					
Project acronym (optional)	MORE				
Full project working title	Material Development for White Hybrid Organic-Inorganic Light Emitting Diodes				
EC workprogramme topic	NMP 2011.2.2-3 Materials for solid-state lighting				
<p>The goal of the <b>MORE project</b> is to develop new materials that allow the construction of white hybrid light emitting devices. For this, we want, first, to obtain deeper fundamental knowledge on the materials properties at the nanoscale junction where all physical and chemical processes take place and have, therefore, a central role on the device performance. Second, to implement this acquired knowledge on the design and synthesis of <b>advanced organic and inorganic materials</b> that led to the construction of <b>devices showing competitive brightness, efficiency and efficacy values.</b></p>					
Partner Search (optional)					
Search n°		Partner type	Industry/Research/Other <i>(delete the unnecessary)</i>		
<p><i>Short description of profile (competences required, geographic origin etc., max 100 words):</i></p>					
Contact for this Expression of Interest					
Title	Ms.	First name	Margelí	Name	M <sup>o</sup> Carmen
Organisation name	CETEMMSA Technological Centre				
E-mail address	<a href="mailto:cmargeli@cetemmsa.com">cmargeli@cetemmsa.com</a>		Direct phone number	0034937419100	

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Expression of Interest for Preparation of a Project Proposal  
TEPPIES call n° 01-2010


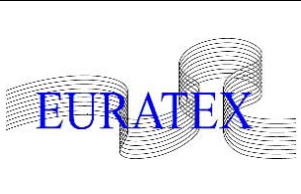
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	Call n°	Opening Date	Tentative Closing Dates
TEPPIES	01-2009	29/06/2010	<b>10/09/2010</b>
EC	FP7-NMP-2010	20 July 2010	04/11/2010
Proposer Identification			
Prime proposer organisation	Institut für Textiltechnik (ITA) of RWTH Aachen University		
Key industry partners	Manufacturer of synthetic fibres, Manufacturer of textile floor coverings		
Key research partners	Deutsches Forschungsinstitut für Bodensysteme e.V. (TFI)		
Proposal Information			
Project acronym (optional)	<b>Ecotexfloor</b>		
Full project working title	<b>Eco-design for sustainable textile floor coverings</b>		
EC work programme topic	NMP-2010-3.1-1 Eco-design for new products		
<p><i>The aim of <b>Ecotexfloor</b> is the creation of a clear methodology which supports European manufacturers of textile floor coverings in optimising the design of their products with regard to eco-efficiency and cost-effectiveness. The resulting product will meet customer's needs and show a large enough market. The entire product life-cycle will be analysed by LCA-(Life cycle assessment) and LCC-(Life cycle costing) in order to detect the optimising potential leading to a sustainable textile floor covering easy to dismantle at the end of its life. Optimising the design-process covers also the use of innovative material adaptations as well as new approaches within the production, recovery and reuse stage itself. The feasibility of the approach will be given by producing and testing the optimised designed textile-floor coverings.</i></p>			
Partner Search (optional)			
Search n°		Partner type	Industry/Research/Other (delete the unnecessary)
Specialist in Eco-Design			
Contact for this Expression of Interest			
Title	Mr	First name	Yves
Name	Gloy		
Organisation name	Institut für Textiltechnik, RWTH Aachen University		
E-mail address	<a href="mailto:Yves.gloy@ita.rwth-aachen.de">Yves.gloy@ita.rwth-aachen.de</a>	Direct phone number	0049-241-80-23470



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TEPPIES call n° 01-2010

Call Identification					
	Call n°	Opening Date	Tentative Closing Dates		
TEPPIES	01-2009	29/06/2010	<b>10/09/2010</b>		
EC	FP7-EeB-2010	20 July 2010	02/12/2010		
Proposer Identification					
Prime proposer organisation	Institut für Textiltechnik (ITA) of RWTH Aachen University				
Key industry partners	Textiles Producer, VIP Panel Manufacturer, Fiber Producer				
Key research partners	D'Appolonia, Italy; Ben Gurion University, Israel				
Proposal Information					
Project acronym (optional)	VIPConTex				
Full project working title	Thin sheet textile reinforced concrete building member isolated with vacuum panels				
EC workprogramme topic	<b>EeB.NMP.2011-1</b>				
<i>Non-confidential abstract (max. 100 words):</i>					
Vacuum isolation panels feature maximum isolation properties for building and construction with minimal panel thickness. In order to facilitate handling and processing the panels will be combined with customised spacer fabrics. These fabrics protect the panels during construction and serve as reinforcement for the designated concrete building member.					
The final isolated textile reinforced concrete members serve as façade elements for new constructions and additional isolation for energetic rehabilitation of existing buildings.					
Partner Search (optional)					
Search n°	Partner type	Industry/Research/Other <i>(delete the unnecessary)</i>			
	Textiles Producer, Manufacturer of pre fabricated concrete parts, Architects, Users/Manufacturer of VIP				
Contact for this Expression of Interest					
Title	Mr.	First name	Michael	Name	Glowania
Organisation name	Institut für Textiltechnik der RWTH Aachen				
E-mail address	michael.glowania@ita.rwth-aachen.de		Direct number	phone	+49 241 80 23460


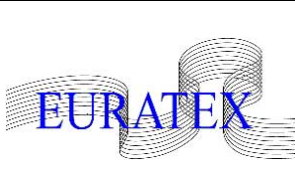
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TEPPIES	01-2009	29/06/2010	<b>10/09/2010</b>
EC	FP7-EeB-2010	20 July 2010	02/12/2010
Proposer Identification			
Prime proposer organisation	Institut für Textiltechnik of RWTH Aachen University		
Key industry partners	Germany, indoor climate technology		
Key research partners	RWTH Aachen University		
Proposal Information			
Project acronym (optional)	InSolCon		
Full project working title	Integrative Solar Thermal and Photovoltaic Textile Reinforced Concrete for Sustainable Building with Outstanding Energy and Material Efficiency		
EC workprogramme topic	<b>EeB.NMP.2011-2</b>		
<i>Non-confidential abstract (max. 100 words):</i>			
Material and energy efficiency are the keys for sustainable building. Textile Reinforced Concrete (TRC) was proven to be a material and energy efficient concept for façade solutions. In the proposed project, an integrated energy harvesting building envelope element based on TRC will be developed. For energy harvesting a hybrid approach of combining photovoltaics and solar thermal absorbers will be pursued. The results are expected to contribute to the construction of active houses and the retrofitting of existing buildings.			
Partner Search (optional)			
Search n°	1	Partner type	Industry
<i>Expertise in: printable photovoltaics, photovoltaic coatings</i>			
<i>Preferably not from Germany</i>			
Contact for this Expression of Interest			
Title	Mr/Ms/Prof/Dr	First name	Timm
Name	Holtermann		
Organisation name	Institut für Textiltechnik of RWTH Aachen University		
E-mail address	Timm.holtermann@ita.rwth-aachen.de	Direct phone number	+49 241 80 23477


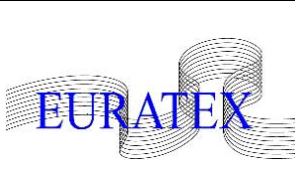


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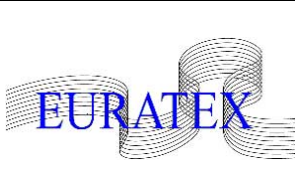
Call Identification			
	Call n°	Opening Date	Tentative Closing Dates
TEPPIES	01-2009	29/06/2010	<b>10/09/2010</b>
EC	FP7-ICT-2010	18 September 2010	18/01/2011
Proposer Identification			
Prime proposer organisation	CETEMMSA		
Key industry partners	SME (UK) Prototype integration, test and benchmarking		
Key research partners	Inkjet printing (ES), Optical and morphological characterization (ES), charge transport characterization, OLED (UK)		
Proposal Information			
Project acronym (optional)	<b>PRINTED PLATFORM</b>		
Full project working title	<b>Printed diagnosis platform based on cross-polarized optical detection</b>		
EC workprogramme topic	ICT-2011.3.6 b) OLAE systems and applications.		
<p><i>Non-confidential abstract (max. 100 words):</i></p> <p>One way to increase sensitivity in biomedical diagnosis is linearly polarizing OLED and photodetector devices to perform cross-polarized detection. Polarized organic photodetectors can be the key to combine high sensitiveness and compactness of diagnosis tools, fully inkjet printed photodetectors can decrease production costs.</p> <p>The project develops low cost and highly sensitive biomedical diagnosis tests based on organic and printed electronics combined with microfluidic systems:</p> <ul style="list-style-type: none"> <li>- Optimized biofunctionalized microfluidic devices to maximize sensitivity</li> <li>- Production of aligned OLEDs to emit polarized light to excite a biological marker</li> <li>- Highly sensitive/aligned photodetectors, inkjet printed</li> <li>- Working lifetime evaluation</li> <li>- Tool assembled/benchmarked for point of care diagnosis of cardiovascular diseases.</li> </ul>			
Partner Search (optional)			
Search n°		Partner type	Industry/Research/Other <i>(delete the unnecessary)</i>
<p><i>Short description of profile (competences required, geographic origin etc., max 100 words):</i></p> <ul style="list-style-type: none"> <li>• Research Device ageing, lifetime studies</li> <li>• SME, Industry microfluidic, ...</li> </ul> <p>EU countries preferably other than ES or UK</p>			
Contact for this Expression of Interest			
Title	Ms	First name	M <sup>a</sup> Carmen
		Name	Margelí
Organisation name	CETEMMSA		
E-mail address	cmargeli@cetemmsa.com	Direct number	phone +34.93.741.91.00

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TEPPIES	01-2009	29/06/2010	<b>10/09/2010</b>
EC	FP7-ICT-2010	18 September 2010	18/01/2011
Proposer Identification			
Prime proposer organisation	CETEMMSA (ES)		
Key industry partners	To be defined		
Key research partners	To be defined		
Proposal Information			
Project acronym (optional)	<b>3e+d plus</b>		
Full project working title	<b>3e+d plus</b>		
EC workprogramme topic	<b>ICT.2011.5.1 Personal Health Systems (PHS)</b>		
<i>Non-confidential abstract (max. 100 words):</i>			
<p>Development of a remote monitoring and sensing system for functional rehabilitation of upper body extremities for people with cognitive and behavioral <i>sequelae</i> resulting from brain injury caused by a cerebral stroke.</p> <p>Research will be on sensor integration into textile garments (through last generation of smart textiles, orthoses and management platform) with <b>remote control</b> of movements of the arm articulations. Virtual reality applications for rehabilitation exercises are also planned.</p> <p>Another goal is developing orthotic systems, independent, controlled, interconnected for the assistance and back articulation, elbow and wrist, improving assistance and mobility offered by the pulley therapy, enlarging activities prescribed by therapists to recover daily activities.</p>			
Partner Search (optional)			
Search n°	Partner type	Industry/Research/Other	<i>(delete the unnecessary)</i>
<i>Short description of profile (competences required, geographic origin etc., max 100 words):</i>			
<ul style="list-style-type: none"> <li>• Technological partner - Software, data processing, self learning</li> <li>• Technological partner - Software, User interaction, training program</li> <li>• Industrial/High tech SMEs</li> </ul>			
Contact for this Expression of Interest			
Title	Ms	First name	M <sup>a</sup> Carmen
Name	Margelí		
Organisation name	CETEMMSA		
E-mail address	cmargeli@cetemmsa.com	Direct phone number	+34.93.741.91.00

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EC	FP7-ICT-2010	18 September 2010	18/01/2011
Proposer Identification			
Prime proposer organisation	CETEMMSA (ES)		
Key industry partners	To be defined		
Key research partners	Sensor Inkjet printing, Hybrid control system (ES)		
Proposal Information			
Project acronym (optional)	<b>WIISEL</b>		
Full project working title	<b>Wireless Insole for Independent and Safe Elderly Living</b>		
EC workprogramme topic	ICT-2011.5.4 ICT for Ageing and Wellbeing b) Smart and self-adaptive environments prolonging independent living		
<p><i>Non-confidential abstract (max. 100 words):</i>            Development of an unobtrusive, wearable prevention/alerting system to decrease the prevalence of falls in elderly.</p> <p>The system will monitor their body posture and physical activity via a matrix of printed pressure sensors installed in the shoes, connected to a flat and flexible hybrid transceiver module to send data to a processing unit (smart phone).</p> <p>Printing/coating techniques will be used to obtain ultra thin and flexible pressure sensor matrix, and circuitry and components for the raw data processing and transceiver unit. Hybridation of standard microchips will be performed to compensate the lack of functionality and computational power offered currently by printed electronics.</p>			
Partner Search (optional)			
Search n°		Partner type	Industry/Research/Other <i>(delete the unnecessary)</i>
<p><i>Short description of profile (competences required, geographic origin etc., max 100 words):</i></p> <ul style="list-style-type: none"> <li>• Hospital - End user, consulting, field testing</li> <li>• Technological partner - Software, data processing, self learning</li> <li>• Technological partner - Software, User interaction, training program</li> <li>• Industrial/High tech SMEs</li> </ul>			
Contact for this Expression of Interest			
Title	Ms	First name	M <sup>a</sup> Carmen
Name	Margelí		
Organisation name	CETEMMSA		
E-mail address	cmargeli@cetemmsa.com	Direct phone number	+34.93.741.91.00