



SIXTH FRAMEWORK PROGRAMME

**NMP4-CT-2006-032155**

**NanoforumEULA**

**Nanoforum EU Latin America**

Instrument Specific Support Action

Thematic Priority NMP

**Publishable final activity report**

Period covered: from 1-12-2006 to 30-11-2008

Date of preparation: 26 February 2009

Start date of project: 1-12-2006

Duration: 24 months

Project coordinator name Ir. Miriam Luizink

Project coordinator organisation name University of Twente

Revision [2]

## 1 Project execution

**Proposal full title** Nanoforum EU Latin America

**Proposal acronym** NANOFORUMEULA

**Proposal abstract**

This SSA aims to foster lasting research relations between European research organisations and research organisations in Latin America specialising in nanotechnology. We have done this by organising exchange visits for 21 Latin American researchers to four European research organisations specialising in nanotechnology. Furthermore, we have organised a workshop in Brazil and fact finding missions in Mexico and Brazil to enable European researchers and industrialists to identify opportunities for establishing working relations.

### Objectives

The objectives of this project are to forge nanotechnology R&D collaborations between Europe and Latin America, in the technological and economic interest of industry and research organisations in both continents. In the present project we have intensified collaboration between European and Latin American nanotechnology networks and centres. We have organised a visit grant scheme for Latin American researchers to European nanotech labs up to three months and a workshop and two fact finding missions for Europeans in Latin America.

The main tasks of the NANOFORUMEULA project are:

- First, we have organised one call for competitive visit grants for students and senior researchers working in collaborative international networks associated to NANOFORUMEULA from LA countries to the EU. For this, we have included a budget to fund 21 such short visits of maximum three months duration.
- Second, we have organised two workshops on specific topics. Both workshops have been held in Latin America, in conjunction with other relevant conferences, focusing on Latin American strengths including nanomaterials and MEMS/NEMS. The first workshop was planned in August 2007, in conjunction with the International Materials Research Congress, in the first year of the project. The second workshop has been held in Brazil in 2008, in the second year of the project. In conjunction with the two workshops, key European researchers have been targeted and we have organised fact finding missions for them to Latin American centres.

## Contractors involved

Participant name	Participant short name	Country
University of Twente, MESA+ lab.	UT	Netherlands
Malsch TechnoValuation	MTV	Netherlands
Superintendencia da Zona Franca de Manaus	SUFRAMA	Brazil
Commissariat a l' Energie Atomique	CEA	France
Fraunhofer Gesellschaft zur Forderung der Angewandten Forschung e.v.	Fraunhofer	Germany
Universidad Autonoma de Madrid	UAM	Spain
Institute for Scientific and Technological Research of San Luis Potosi	IPICYT	Mexico

## Co-ordinator contact details (including project website)

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Website project: [www.nanoforum.eu](http://www.nanoforum.eu)

## Work performed

In year 1, the NanoforumEULA research visit grant call has been organised and 21 visitors selected. Furthermore, a fact finding mission investigating nanotechnology in Mexico has been held 24-30 August 2007. A planned workshop in Cancun on 23 August in conjunction with the International Materials Research Conference had to be cancelled due to a hurricane, and was recombined with the fact finding mission. The fact finding mission involved approximately 225 participants, more than originally foreseen (50-100 in the workshop plus 25-50 in the fact finding mission).

In year 2, 21 NanoforumEULA research visits have taken place and the results reported. Furthermore, a fact finding mission investigating nanotechnology in Brazil has been held 8-12 September 2008, involving approximately 200 participants (around 100 in the fact finding mission and 100 in the workshop). This was more than originally foreseen (50-100 in the workshop plus 25-50 in the fact finding mission).

## End results, intentions for use and impacts

21 researchers from Latin American countries have visited one of the four European nanotechnology research centres which are participating in the project. It has been possible to invite one more researcher than originally foreseen. Interviews with 16 researchers and an article analysing their responses have been published at [www.nanoforum.eu](http://www.nanoforum.eu) (interviews) and [www.nanoforum.org](http://www.nanoforum.org) (analysis) in 2007.

A report on the fact finding mission, a diagnostic report on nanotechnology in Mexico and a who's who of nanotechnology researchers in Mexico have been published end of 2007. A background article on nanotechnology in Brazil and a report on the fact finding mission in Brazil have been published online at [www.nanoforumeula.eu](http://www.nanoforumeula.eu) end of 2008. As a follow-up to the project, a limited fact finding mission has been held by the project technical manager in Argentina, 19-23 November 2008. The report has been published on the website of NanoforumEULA in January 2008.

21 researchers from Latin America are expected to use their visit to Europe for establishing longer term research cooperation in nanotechnology. The fact finding missions and workshop held in Mexico and Brazil are expected to enable participants from Europe and Latin America to develop new collaborative projects. These events have resulted in reports mapping the nanotechnology research community in Mexico and Brazil, published online. The expected impact is that European and Latin American researchers in nanotechnology will cooperate more. The tangible project results will be taken up and developed further in the EU funded ICPC NanoNet project (1 June 2008 – 31 May 2012), [www.icpc-nanonet.org](http://www.icpc-nanonet.org).

## 2 Dissemination and use

During year 1, the major activity organised was the fact finding mission on nanotechnology in Mexico. In this 255 people attended, and it was accompanied by media attention. The reports have been published online and been presented in several events.

Publicity for the project has been sought through electronic press releases and web-based information as well as presentations at other events and publications. For most presentations, the travel costs have been paid from other budgets. Only the costs of travel and subsistence for the presentations by Humberto and Mauricio Terrones on 22 and 23 October 2007 have been charged to the NanoforumEULA project.

During year 2, the major activity organised was the fact finding mission and workshop on nanotechnology in Brazil. In this around 200 people participated. The report has been published online end of November 2008. Dissemination of results of the research visits has taken place through interviews with the visiting researchers, published online at [www.nanoforumeula.eu](http://www.nanoforumeula.eu) and an article analysing these interviews published at [www.nanoforum.org](http://www.nanoforum.org). Several visitors have sent evidence of presentations or interviews given in their home country about their visit in the framework of NanoforumEULA.

**Overview table**

<b>Planned /actual Dates</b>	<b>Type</b>	<b>Type of audience</b>	<b>Countries addressed</b>	<b>Size of audience</b>	<b>Partner responsible /involved</b>
<i>5-12-2006</i>	<i>Press releases sent and put on websites</i>	<i>Research, Industry</i>	<b>Europe, Latin America</b>	<i>thousands</i>	<i>all</i>
<i>12-12-06</i>	<i>Slides in presentation Mar del Plata Conference</i>	<i>Research</i>	<b>Argentina</b>	<i>Hundreds</i>	<i>UAM</i>
<i>12-12-06</i>	<i>Nanoforumeula page at <a href="http://www.nanoforum.org">www.nanoforum.org</a></i>	<i>Research, Industry</i>	<b>Europe, Latin America</b>	<i>Thousands</i>	<i>MTV</i>
<i>1-2-07</i>	<i>Project website</i>	<i>Research, Industry</i>	<b>Europe,</b>	<i>Thousan</i>	<i>MTV</i>

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	<a href="http://www.nanoformeula.eu">www.nanoformeula.eu</a>		<b>Latin America</b>	<i>ds</i>	
<i>1-2-07</i>	<i>Press releases grant call sent and put on websites</i>	<i>Research, Industry</i>	<b>Europe, Latin America</b>	<i>thousands</i>	<i>MTV</i>
<i>3-3-07</i>	<i>Presentation EuroIndiaNet conference New Delhi, <a href="http://www.euroindianet.info">www.euroindianet.info</a></i>	<i>Research</i>	<b>India</b>	<i>50-100</i>	<i>MTV</i>
<i>17-4-07</i>	<i>Article on opportunities for Brazil in nanotechnology in book publication SUFRAMA (pending publication)</i>	<i>Research</i>	<b>Brazil</b>	<i>Hundreds</i>	<i>SUFRAMA, MTV</i>
<i>2-5-2007</i>	<i>Press release extension nanoformeula grant call</i>	<i>Research</i>	<b>Europe, Latin America</b>	<i>Thousands</i>	<i>MTV</i>
<i>8-5-07, 4-6-07</i>	<i>Press release events Mexico</i>	<i>Research, Industry</i>	<b>Europe, Latin America</b>	<i>Thousands</i>	<i>MTV</i>
<i>12-06-07</i>	<i>Presentation on nanotech in Latin America during Point One event, Eindhoven, The Netherlands</i>	<i>Research, Industry</i>	<b>Netherlands</b>	<i>Hundreds</i>	<i>MTV</i>
<i>19-6-07</i>	<i>Presentation Euronanoforum 2007 on Worldwide societal acceptance of nanotechnology, distribute flyers</i>	<i>Research, Industry, Government</i>	<b>Europe</b>	<i>900</i>	<i>MTV</i>
<i>June 2007</i>	<i>Distribute flyers Laser 2007</i>	<i>Research</i>	<b>Europe</b>	<i>Hundreds</i>	<i>Fraunhofer</i>
<i>August 2008</i>	<i>Press releases and interviews given during the fact finding mission in Mexico, resulting in several news articles</i>	<i>General public</i>	<b>Mexico</b>	<i>Hundreds thousands</i>	<i>IPICYT</i>
<i>Sept 2007</i>	<i>Announcement results grant call</i>	<i>Research</i>	<b>Europe, Latin America</b>	<i>Thousands</i>	<i>MTV</i>
<i>22-10-07, 23-10-07</i>	<i>Presentation results fact finding mission Mexico NCP meetings Berlin, Brussels</i>	<i>Research</i>	<b>Europe</b>	<i>50?</i>	<i>IPICYT</i>
<i>2-11-07</i>	<i>Press release results fact finding mission Mexico</i>	<i>Research, Industry</i>	<b>Europe, Latin America</b>	<i>Thousands</i>	<i>MTV</i>
<i>22-11-07</i>	<i>Presentation NanoforumEULA,</i>	<i>Research</i>	<b>Argentina</b>	<i>~25</i>	<i>MTV</i>

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	<i>opportunities Argentinean researchers in FP7 during fact finding mission nano in Argentina</i>				
January 2008	Article on Nanotechnology in Mexico in NTVN, <a href="http://www.ntvn.nl">www.ntvn.nl</a>	Physicists	<b>Netherlands</b>	Thousands	MTV
January 2008	Report on nanotechnology in Argentina published at <a href="http://www.nanoforumeula.eu">www.nanoforumeula.eu</a> and <a href="http://www.nanoforum.org">www.nanoforum.org</a>	Research, industry	<b>Europe, Latin America</b>	Thousands	MTV
March 2008	Presentation results fact finding mission in Mexico during conference on responsible nanotech in Brussels	Research, policy makers	<b>World</b>	50-100	IPICYT
13-11-08, 29-11-08, 25-07-2008	Press releases announcing workshop & Fact finding mission Brazil, at <a href="http://www.nanoforum.org">www.nanoforum.org</a> , <a href="http://www.nanoforumeula.eu">www.nanoforumeula.eu</a> and by e-mail	Research, industry	<b>Europe, Latin America</b>	Thousands	MTV
15-04-2008	Article on nanotechnology in Brazil published online at <a href="http://www.nanoforumeula.eu">www.nanoforumeula.eu</a> and <a href="http://www.nanoforum.eu">www.nanoforum.eu</a>	Research, Industry	<b>Europe, Latin America</b>	Thousands	MTV
Between April and November 2008	Interviews with Latin American researchers about their visit to Europe published at <a href="http://www.nanoforumeula.eu">www.nanoforumeula.eu</a>	Research, Industry	<b>Europe, Latin America</b>	Thousands	MTV
Mid 2008	Latin American researchers disseminate results of their visits in their own country (evidence enclosed)	Research, industry	<b>Latin America</b>	Hundreds	MTV, visitors
24-06-2008	Powerpoint presentation on NanoforumEULA project sent to EULAC	Research, government	<b>Europe</b>	16	MTV

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	coordination meeting, Brussels				
September 2008	Press releases, interviews during workshop and fact finding mission in Brazil	General public	<b>Brazil</b>	Thousands?	SUFRAMA
11-11-2008	Article analysing nanoforumeula visits published online at <a href="http://www.nanoforum.org">www.nanoforum.org</a>	Research, industry	<b>Europe, Latin America</b>	Thousands	MTV
27-11-2008	Report on fact finding mission nanotechnology in Brazil published online at <a href="http://www.nanoforumeula.eu">www.nanoforumeula.eu</a> and <a href="http://www.nanoforum.org">www.nanoforum.org</a>	Research, industry	<b>Europe, Latin America</b>	Thousands	MTV, SUFRAMA