

# Internationalization of the Spanish Nanoscience and Nanotechnology

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The Phantoms Foundation received in 2013 the official recognition as Lead Collaborator of ICEX, Spain Export and Investments, since 2008 is coordinator of the Spanish Nanotechnology Plan funded by ICEX, to enhance the promotion in foreign markets of Spain's more Innovative and leading industrial technologies and products in order to:

- Represent the Scientific, Technological and Innovative agents of the country as a whole
- Foster relationships with other markets/countries
- Promote country culture of innovation
- Better integrate the Spanish "Science-Technology-Company-Society" system in other countries
- Generate and develop scientific and technological knowledge
- Improve competitiveness and contribute to the economic and social development of Spain

The Phantoms Foundation and ICEX, bring since 2008 to international exhibitions and conferences "Nanoscience and Nanotechnology Spain Pavilions/Areas". At these events, nanoscience and nanotechnology companies, science and technology research centers and industry associations present innovative technologies uses, advances in nanotechnology and projects from Spain under "Spanish Nanoscience and Technological Offer" in order to better integrate the Spanish Science-Technology-Company-Society in the Global Market.



The Phantoms Foundation, based in Madrid (Spain) focuses its activities on Nanoscience and Nanotechnology (N&N):

- High level management profile to National and European scientific projects
- 11 European projects in the last 10 years either as coordinator (nanoICT CA) or partner
- Active organizer of International conferences, meetings and workshops
- Innovative platform for dissemination, transfer and transformation of basic nanoscience knowledge, strengthening interdisciplinary research in nanoscience and nanotechnology and catalysing collaboration among international research groups
- Coordination of the NanoSpain Network ([www.nanospain.org/](http://www.nanospain.org/))
- Coordinator of the Spanish Nanotechnology Plan funded by ICEX (ICEX Spain Trade and Investment, [www.icex.es](http://www.icex.es))
- Coordinator/Editor of focused reports on N&N related research areas (infrastructure needs, emerging research, etc.)
- Coordinator/Editor of the Catalogue of Nanoscience & Nanotechnology Companies in Spain, which provides a general overview of the Nanoscience and Nanotechnology companies in Spain and in particular the importance of this market research, etc.
- Coordinator/Editor of the Catalogue of Graphene companies worldwide (published for the 1st time), which provides a general overview of the Graphene industry worldwide in this emerging field and in particular the importance of this market research, etc.
- Developer the graphene CLOUD website ([www.graphenecloud.net](http://www.graphenecloud.net))

Web: [www.phantomsnet.net](http://www.phantomsnet.net)

Email: [info@phantomsnet.net](mailto:info@phantomsnet.net)

**Spanish pavilion exhibitors at international nanotechnology exhibitions (2008-2014):**

**nano tech 2008**



PhantomSnet.net  
 nano tech 2008  
 Tokyo (Japan) 13-15 February 2008  
[www.nanotechexpo.jp/en/index.html](http://www.nanotechexpo.jp/en/index.html)  
[www.phantom3net.net/Nanotech2008/](http://www.phantom3net.net/Nanotech2008/)



**nano tech 2009**



PhantomSnet.net  
 nano tech 2009  
 Tokyo (Japan) 18-20 February 2009  
[www.nanotechexpo.jp/en/index.html](http://www.nanotechexpo.jp/en/index.html)  
[www.phantom3net.net/Nanotech2009/](http://www.phantom3net.net/Nanotech2009/)



**Nanotech Conference & Expo**

**Nanotech Conference & Expo 2009**

May 3 - 7, 2009 • Houston, TX  
 George R. Brown Convention Center  
 Houston (EEUU) 3-7 mayo 2009  
[www.nsti.org/Nanotech2009/](http://www.nsti.org/Nanotech2009/)  
[www.phantom3net.net/NSTI2009](http://www.phantom3net.net/NSTI2009)



**Rusnanotech 2011**



Moscow (Russia) 26-28 October 2011

[www.rusnanoforum.ru](http://www.rusnanoforum.ru)  
[www.phantomsnet.net/Rusnanotech2011/](http://www.phantomsnet.net/Rusnanotech2011/)



**nano tech 2011**



Tokyo (Japan) February 16-18, 2011

[www.nanotechexpo.jp/en/index.html](http://www.nanotechexpo.jp/en/index.html)  
[www.phantomsnet.net/Nanotech2011/](http://www.phantomsnet.net/Nanotech2011/)



**2010 Taiwan Nano Exhibition**



Taipei (Taiwan) 7-9 October 2010

<http://nano.tca.org.tw/index.php>  
[www.phantomsnet.net/Taiwan2010](http://www.phantomsnet.net/Taiwan2010)



PROYECTO ESTRUCTURANTE EN NANOCENCIA, NANOTECNOLOGIA Y MATERIALES AVANZADOS

**nano tech 2010**

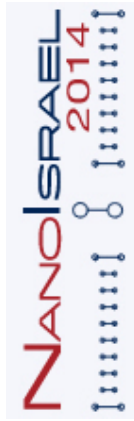


Tokyo (Japan) 17-19 February 2010

[www.nanotechexpo.jp/en/index.html](http://www.nanotechexpo.jp/en/index.html)  
[www.phantomsnet.net/Nanotech2010/](http://www.phantomsnet.net/Nanotech2010/)



**NanoIsrael 2014**



Tel Aviv (Israel) 24-25 March 2014

<https://mfa.gov.il/MFA/InnovativeIsrael/Conferences/Pages/NanoIsrael-2014.aspx>



**nano tech 2014**



Tokyo (Japan) 29-31 January 2014

[www.nanotechexpo.jp/en/index.html](http://www.nanotechexpo.jp/en/index.html)  
[www.phantomsnet.net/Nanotech2014/](http://www.phantomsnet.net/Nanotech2014/)



**nano tech 2013**



Tokyo (Japan) 30 Jan. - 1 February 2013

[www.nanotechexpo.jp/en/index.html](http://www.nanotechexpo.jp/en/index.html)  
[www.phantomsnet.net/Nanotech2013/](http://www.phantomsnet.net/Nanotech2013/)



**nano tech 2012**



Tokyo (Japan) 15-17 February 2012

[www.nanotechexpo.jp/en/index.html](http://www.nanotechexpo.jp/en/index.html)  
[www.phantomsnet.net/Nanotech2012/](http://www.phantomsnet.net/Nanotech2012/)



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**GRAPCHINA 2014**



Ningbo (China) September 1-3, 2014

[www.phantomsnet.net/ICEXGrpchina2014/](http://www.phantomsnet.net/ICEXGrpchina2014/)



**GRAPHENEA**



Institut Català  
de Nanociència  
i Nanotecnologia

## Other internationalization related activities: symposia, workshops, etc

Support partner of the 4th Berlin Conference on IP in Life Sciences: "Rare Diseases – Blockbusters in the Niches", (Berlin, Germany) - February 18, 2011

<https://biocom.de/4th-berlin-conference-on-ip-in-life-sciences-2011-2/?lang=en>

Forum on nanotechnology: Antonio Correia, "Initiatives to promote the Spanish nanoscience and nanotechnology industry in foreign markets", (Madrid, Spain) - June 16, 2011

Nanotechnology Symposium organized by the Phantoms Foundation, "Spanish initiatives to promote nanoindustry" (Madrid, Spain) - November 10, 2011

<http://www.phantomsnet.net/ICEX2011/index.php>

Forum "CHALLENGES AND BUSINESS OPPORTUNITIES OF NANOTECHNOLOGY", Antonio Correia, "Initiatives to promote the Spanish nanoscience and nanotechnology industry in foreign markets", (Santiago de Compostela, Spain) - July 12, 2012

<http://campusvida.usc.es/es/exito-del-2o-foro-nanovolor-celebrado-el-jueves-pasado-en-santiago-de-compostela/>

MANCEF COMET "Commercialization of nanotechnology", Maite Fernández "Commercialization of Nano in Spain" (Tokyo, Japan) - January 30, 2013

<http://www.mancef.org/mancef-comet-in-tokyo-on-january-30-2013/>

Symposium: "Financing - Internationalization - Cooperation: initiatives and programs for technology-based companies". Event organised in collaboration with *Agencia de Innovacion y Desarrollo de Andalucia*, CESEAND, Enterprise Europe Network, CDTI, *Ministerio de Industria, Energia y Turismo*, Extenda and M-era.net, (Seville, Spain) - September 11, 2013

<http://www.tntconf.org/2013/Invest/symposium.php?conf=13>

"Industrial applications of nanotechnology", 7<sup>th</sup> AIN Event "International Initiatives to promote Spanish Nanotechnology Industry & state of the art applications overview", Paloma Gacía Escorial (Barcelona, Spain) - October 1, 2013

<http://ainjornadas.es/es/jornadas-anteriores/vii-jornada-ain-2013/>

Symposium: "Nanopatents symposium". Networking symposium focused on patent landscape and technology transfer. The main goal of the symposium was to help companies on the arduous patenting process. Organized in cooperation with ICEX Spain Trade and Investment (Barcelona, Spain) - October 29, 2014

<http://www.tntconf.org/2014/Invest/symposium.php?conf=14>

Networking-Symposium: "Finance - Internationalization - cooperation: initiatives and programs for nanotechnology companies". Maite Fernández "Spanish plan for the promotion of nanotechnology", Organized in cooperation with ICEX Spain Trade and Investment (Madrid, Spain) - December 16, 2014

<http://www.phantomsnet.net/ICEX2014/symposium.php>

## Reports / Articles related to Nanoscience and Nanotechnology Spanish Community

Catalogues compiled by the Phantoms Foundation, providing a general overview of the Nanoscience and Nanotechnology companies in Spain and focused reports on specific areas of interest for the Nanoscience/Nanotechnology Spanish Community.



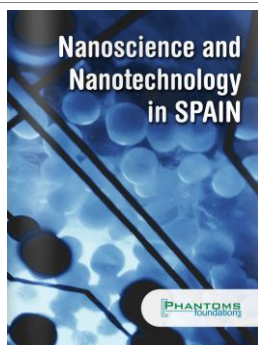
This catalogue (version 5.0, updated in December 2014), compiled by the Phantoms Foundation, provides a general overview of the Nanoscience and Nanotechnology companies (109) in Spain and in particular the importance of this market research, etc.

[www.phantomsnet.net/Resources/files/Catalogue2015.pdf](http://www.phantomsnet.net/Resources/files/Catalogue2015.pdf)



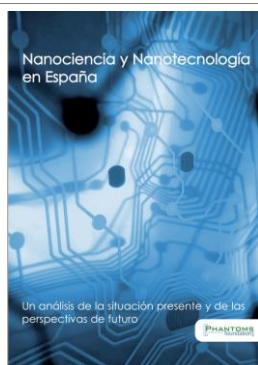
This flyer (October 2015), compiled by the Phantoms Foundation, provides a general overview of the graphene related companies (23) in Spain.

[www.phantomsnet.net/Resources/files/Graphene-in-Spain-Companies-Catalogue2015.pdf](http://www.phantomsnet.net/Resources/files/Graphene-in-Spain-Companies-Catalogue2015.pdf)



The second version of the report "Nanoscience & Nanotechnology in Spain" (2010/2011) provides insights by identifying R&D directions and priorities in Spain. Moreover, it aims to be a valid source of guidance, not only for the scientific community but also for the industry. This report covers a wide range of interdisciplinary areas of research and development, such as Graphene, Nanochemistry, Nanomedicine, Carbon Nanotubes, Nanomaterials for Energy, Modelling, etc., and provides insights in these areas, currently very active worldwide and particularly in Spain. It also provides an outlook of the entire Spanish nanotechnology system, including nearly 250 research institutions and over 50 companies.

<http://www.phantomsnet.net/PH/PHReports.php#>



The main objective of this book (February 2008) was to present a global vision of the current situation of nanoscience and nanotechnology activities in Spain. This activity required the efforts of several experts who have become witnesses of the state of the art in each of the considered thematic areas: energy, nanobiology, nanomedicine, nanometrology, nanoelectronics, nanomaterials, nanoptics and nanophotonics, nanotubes, nanochemistry, theory, Modeling and Simulation.  
(In Spanish)

[http://www.phantomsnet.net/Resources/files/NANOCIENCIA\\_NANOTECNOLOGIAalta.pdf](http://www.phantomsnet.net/Resources/files/NANOCIENCIA_NANOTECNOLOGIAalta.pdf)