

My personal scientific journey

- Laurea, Pharmaceutical Chemistry, University of Milan (Italy)
- PhD, Chemistry, University of Miami (USA)
- Post-doc, Physics, Trinity College Dublin (Ireland) MC - RTN
- Post-doc, Chemistry, University of Trieste (Italy) MC – ERG
- SFI President of Ireland Young Researcher Award to start independent research group in Ireland



My outreach activities

Nano Goes to Hollywood

Dr. Treasa Ní Mhíocháin, Communications and Outreach Manager at the Centre for Research on Adaptive Nanostructures and Nanodevices (CRANN) in Trinity College Dublin, lifts the lid on nanotechnology and why no movie is now complete without it.



Students go nano – students taking part in The Nano Experience workshop

"By the time you have finished reading this your fingernails will have grown by about a nanometre. A nanometre is a million times smaller than a metre, and objects of this tiny size are the building blocks of nature. You can't see these tiny but essential substances with the human eye, or even using a microscope, but special equipment has been invented to allow us to look at life on the nanoscale.

Nanoscience combines Physics, Chemistry and Biology, and is already being used in the world all around us. A huge array of nano-products fill our shop shelves, from mobile phones and computer discs to tennis rackets and golf clubs, sunscreens and cosmetics to bandages and waterproof trousers.

So is the future nano? Hollywood seems to think so. From vintage classics to the latest blockbusters, nanoscience is all over our movie screens. Images from the Nanoworld have sparked the heroic, futuristic imaginations of the

writers of "Spiderman 2", "The Hulk" and "Minority Report", and even as far back as the 1950's classic - "Fantastic Voyage" - where our tiny heroes explore the nanoscale world inside the human body.

Come and find out more about this exciting world when the team from CRANN, The Centre for Research on Adaptive Nanostructures and Nanodevices at Trinity College Dublin, present "The Nano-Experience" during Science Week. With hands-on experiments, live demonstrations, all sorts of goodies and a trip to the Nano-Movies, Nano never looked so big!

Visit the website:
www.crann.tcd.ie



Science Week 2005 3

"To see a World in a Grain of Sand"

Trinity brings Nanoscience to Schools



Dr. Treasa Ní Mhíocháin (right) and Dr. Síle Gardner promoting the Nano-Experience



Testing setup of Nano-trousers at the Nano-Experience



The girls of Loreto Secondary School

Nanoscience explores hidden worlds a million times smaller than a millimetre, but its mysteries are unfolding. Opening up the Nano-world to the public is an important goal of CRANN, the Centre for Research on Adaptive Nanostructures and Nanodevices at Trinity College Dublin. On the 14-15 November CRANN's special science schools roadshow "The Nano-Experience" went on tour to Carmanston, Co. Meath. The team met over 120 students and teachers, with senior groups from the Franciscan College Carmanston and Loreto Secondary School Balbriggan as well as 6th class from Balcaddan National School.

The Nano-Experience, created by Dr. Treasa Ní Mhíocháin (CRANN Communications and Outreach Manager) with support from Discover Science and Engineering, explains nanoscience and nanotechnology through a range of entertaining, hands-on demonstrations and experiences.

Continued

EMEA Academic Forum

The Nano-Experience Roadshow - Bringing the Nanoworld to Schools



Balcaddan National School experiment with www.nanoblog.com

A highlight was the "Nano Goes to Hollywood" movie collection from "Spiderman 2", "The Hulk", "Minority Report" and the 1950's classic "Fantastic Voyage" presented to the schools on our portable movie theatre. There was special prizes for the winning teams in our lightning nano-quiz, but a little Science Week something for everyone in the audience!

All-in-all we met over 120 students and their teachers in the course of a fantastic two days, to say nothing of passers-by trying to get a peep through the doors

Very special thanks to the team who gave such energy to making this happen: Corahee Almeida, Eoin Clifford, Silvia Giustini, Michael Higgins, Camilla Kelly, Niall Kinahan, Chris Murray, Philip O'Reilly, Adrielle Prina-Mills, Peter



The CRANN Nano-Experience team.





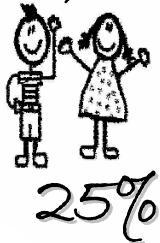
Marie Curie Fellows Association (MCFA)

- Pan-European cross-cultural organisation of current and former holders of Marie Curie grants holders

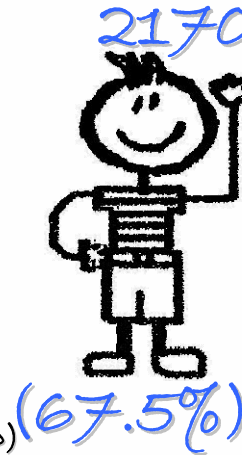
- A highly multidisciplinary network of mobile researchers since 1996 – the **European voice of mobile researchers**

• **3213** registered fellows (June

2006)



(EARLY STAGE) (EXPERIENCED) (VERY EXPERIENCED)



- A **Women in Science and Technology (WiST)** working group has been established in order to:

- promote mobility among the women scientists community,
- provide feedback from the EC on policy issues for mobility
- collaborate with similar associations and organizations

Gender Action Plans (GAP) have applied from FP6:

“the participation of women within all actions, and appropriate measures to promote a more equitable balance between men and women in research. In this context the Commission and the host organisations will endeavour *to reach the objective of at least 40% selection of women.*” (*Marie Curie Actions Work Programme*)

Increased interest from the European Commission to gender dimension and equality which will continue in FP7 – PEOPLE Programme