

NanoDays™

The Biggest Event for the Smallest Science!

NanoDays is an annual nationwide festival of educational programs about nanoscale science and engineering and its potential impact on the future. The Museum of Science and History, FTS International, the Alan G. MacDiarmid Nanotech Institute at the University of Texas at Dallas and Eastfield College are partnering for this big celebration of the extremely small.

Demonstrations

Imaginer Studio

Amazing Carbon Nanotubes

Hear sound travel through speakers with no moving parts and view muscles made with carbon nanotubes

Magnetic Explorations

Explore magnetism in many different ways and learn about its importance to nanotechnology

Levitation: Not Magic, but Cool Science

Learn about invisible forces which cause objects to float

Fun with Elements

Learn more about interesting elements and create your own molecular models

Chats: Short Informal Talks

Designer Studio

Size Does Matter - Smaller is Better! Nano Technology in the Oil Industry

11:00am 12:30pm and 2:00pm

Brad Holms, Executive Vice President – Research & Technology, FTS International

Introduction to Solar Cells - 11:30am

Adeesh Jain, 2012 Nanoexplorer, UT Dallas

Science Behind Invisibility Cloaking

1:00pm

Carter Haines, Ph.D candidate, Material Science and Engineering, UT Dallas

Making the Invisible Visible - 2:30pm

Murry Gans, Scanning Electron Microscope Lab Coordinator, Eastfield College

Nanotechnology for Fun and Profit

3:00pm

Dr. Ray Baughman, Director, Alan G. MacDiarmid NanoTech Institute, UT Dallas



Hands-on Explorations

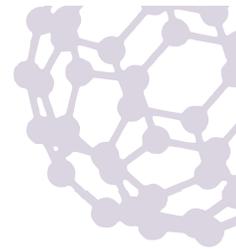
Innovation Gallery

Explore the science behind invisibility cloaking, find out how scientists “see” objects at the nanoscale, play with products and materials that connect to nanotechnology, learn about amazing properties of nanoscale materials and discover how scanning electron microscopes work.

All NanoDays activities are included with paid exhibit admission.

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So, What Is Nano?

“Nano” is a suffix that denotes a size – in this case, one billionth $1/1,000,000,000$ of any measurement. So, a nanometer is one billionth of a meter.

Here are some interesting measurement facts to bring this number into perspective:

- The period at the end of this sentence is 500,000 nanometers wide.
- This sheet of paper is about 100,000 nanometers thick.
- The diameter of a red blood cell is about 7,000 nanometers.
- DNA is 2 nanometers across.
- If a nanometer is one billionth of a meter, then to live a billion seconds would take about 32 years.

Want To Learn More?

Visit these sites to continue learning about nanotechnology:

www.nanozone.org

Kid friendly site with activities for the what, who and why of nanotechnology.

<http://pbskids.org/dragonflytv/nano/index.html>

View episodes, play games and learn about nano.

<http://nanotech.utdallas.edu/>

Alan G. MacDiarmid Nanotech Institute at the University of Texas at Dallas.

<http://nanotech.utdallas.edu/community/nanoexplorers/index.html>

The George A. Jeffrey NanoExplorers Program promotes nanotechnology-based education for students entering the 10th-12th grade.



NanoDays is presented by participants in the Nanoscale Informal Science Education Network (NISE Net), a group funded by the National Science Foundation, and takes place at over 200 museums, research centers and universities across the country.



Program Sponsor



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