

# NanoDays



[nisenet.org](http://nisenet.org)

Welcome, and thank you for helping out with our NanoDays event!



# Presentation Overview

## Intro to NanoDays

- NanoDays nationwide
- Our NanoDays event

## Engaging the public in nano

- What is nano?
- NanoDays activities

I'll be introducing you to NanoDays and going over some details of our event that you may find helpful in your role today. I'll also tell you a little bit about what nano is, and provide an overview of all the activities going on today.

## NanoDays is...

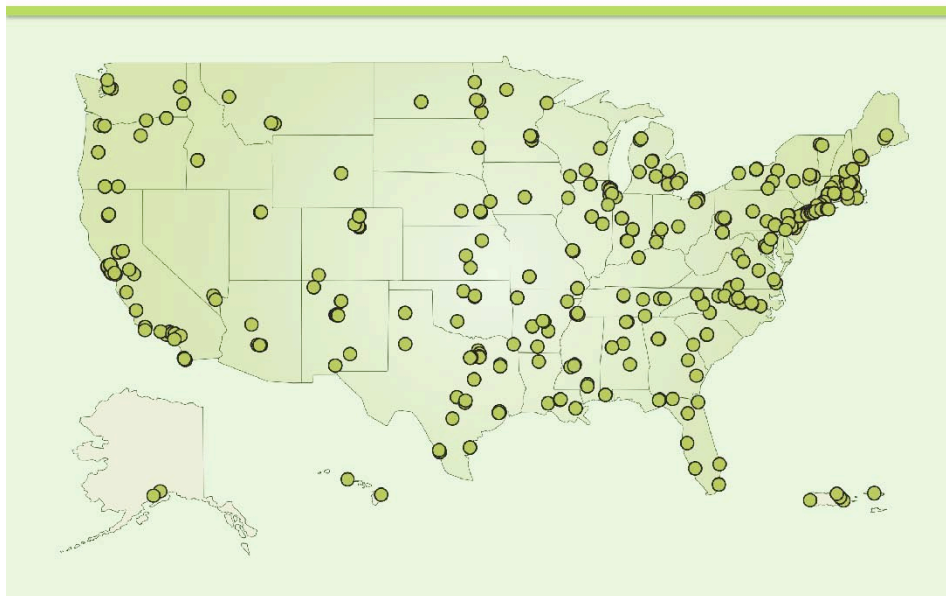


- a nationwide event celebrating nanoscale science and engineering
- organized by the Nanoscale Informal Science Education Network (NISE Net)
- held in all 50 states of the US, as well as other countries
- hosted at more than 200 sites each year
- enjoyed by over 470,000 participants annually

NanoDays is an opportunity to reach visitors with something that may be new to them.

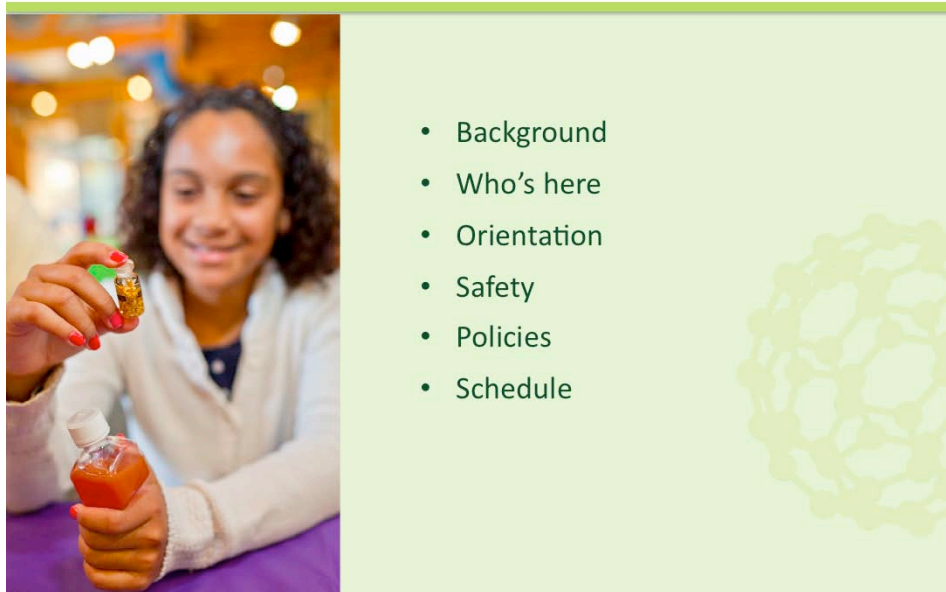
*(Quick overview of NanoDays as a national event, held in all 50 states, Puerto Rico and internationally, attended by as many as 470,000 people.*

## NanoDays Sites



The dots on this map represent sites where NanoDays kits have been sent each year, since 2008 (when NanoDays began). (Additional sites also held NanoDays events.)

## Our NanoDays Event



*This is for information about your institution*

**Background:**

*(Your institution's) mission/ how long your institution has been hosting a NanoDays event*

**Who's here:**

*Introduce guest speakers, volunteer groups and other participants*

**Orientation, Safety, and Policies:**

*Where are restrooms, lunchrooms, and other places?*

*Where are the emergency exits?*

*Who should be contacted in case of emergency?*

*What do volunteers do if they have a problem? Who should be contacted?*

*Does your institution have procedures for fire alarms, lost children, and other emergencies?*

**Schedule:**

*Highlight the schedule for the day*

*Are there special presentations? If so, where will they be held and at what time?*

*When does the NanoDays event begin and end?*



## Engaging the Public in Nano

Let's talk about what nano is and the activities at today's NanoDays event.

# What is Nano?

A photograph of a young child in a red shirt holding up a large, black and white molecular model against a clear blue sky. The model is a complex, interconnected structure of spheres and rods, resembling a nanoscale structure.

**Key concepts:**

1. Nano is small and different.
2. Nano is studying and making tiny things.
3. Nano is new technologies.
4. Nano is part of our society and our future.

**Nano is small and different.** Nano is a prefix. A nanometer is very small. There are 1 billion nanometers in a meter. Nanoscale things often behave differently than larger things do.

**Nano is studying and making tiny things.** Scientists and engineers have formed the interdisciplinary field of nanotechnology by investigating properties and manipulating matter at the nanoscale.

**Nano is new technologies.** Nanoscale science, engineering, and technology lead to new knowledge and innovations that weren't possible before. Manipulating matter in different ways can lead to exciting breakthroughs in medicine, computing, energy and materials technologies.

**Nano is part of our society and our future.** Nanotechnologies have costs, risks, and benefits that affect our lives in ways we cannot always predict.

*For more background information with key concepts for engaging the public in nanoscale science, engineering, and technology [http://www.nisenet.org/catalog/tools\\_guides/engaging\\_public\\_nano](http://www.nisenet.org/catalog/tools_guides/engaging_public_nano)*

*At this point, you may want to present the Intro to Nano video, "Nanotechnology: What's the Big Deal?" [http://www.nisenet.org/catalog/media/intro\\_nano\\_video](http://www.nisenet.org/catalog/media/intro_nano_video) or do the Intro to Nano demonstration from the NanoDays 2012 kit.*



# NanoDays Kit Activities

Key concept 1: Nano is small and different.



There are a number of “Exploring” Activities at today’s event. While all the activities may deal with multiple key concepts, the Exploring Forces and Exploring Size activities are designed to highlight key concept 1: Nano is small and different.

*(This and the next few slides will list the activities included in the NanoDays 2012 kit.)*



# NanoDays Kit Activities

Key concept 2: Nano is studying and making tiny things.



The Exploring Structures and Exploring Fabrication activities highlight key concept 2: Nano is studying and making tiny things.

# NanoDays Kit Activities

Key concept 3: Nano is new technologies

Key concept 4: Nano is part of our society and our future

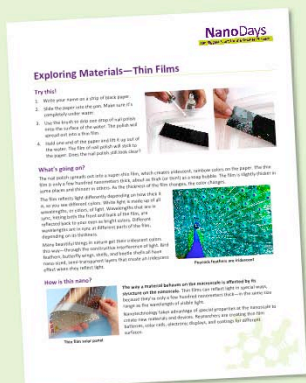


The Exploring Materials and Exploring Products activities highlight key concepts 3 and 4: Nano is new technologies and Nano is part of our society and our future.

# Inside the Box

## Activity Guides

On the front:  
Instructions for visitors



On the back:  
Information for presenters



When you get to your station, you will find a box. Inside the box you will find all the materials you need to run one NanoDays activity. Each activity has a “guide” that has 2 sides. The “front” side should be placed facing visitors.

The front of all the guides is divided into three sections:

**“Try This!”** which gives the instructions for doing the activity

**“What’s going on?”** which explains what the visitor observed

**“How is this nano?”** which explains the nanoscale science and/or technology background for the activity

Read over the front of the guide before visitors arrive.

Many guides also have a back side, including:

**Learning objectives** – tells you what visitors will hopefully learn from participating in the activity

**Materials** – Check that you have all the materials needed for the activity.

**Notes to the presenter** – These may help give you some helpful hints to make the activity more successful

Some of the activities also include **Extensions** – which are extra activities that can be done.

## Other Activities



There are also a number of other activities, which you might help visitors use.

Build a Giant Puzzle!, I Spy Nano!, and What Am I? are simple activities that visitors can do on their own or with assistance from an educator. These have signs that provide instructions. If you're helping visitors at one of these activities, read the instructions before visitors arrive.

There are several educational posters and videos as well.

## Other Programming



There are lots of other activities happening here today. Some of the highlights are  
(*add other programming here*)

(e.g. “Nanotechnology: Small Science, Big Impact,” a cart demonstration that introduces nanoscale science and technology)

(videos)

# THANK YOU!

We couldn't do this without you!





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Any opinions, findings, and conclusions or recommendations expressed in this presentation are those of the author(s) and do not necessarily reflect the views of the Foundation.





# Title



*You can use this slide if you need to add something. Just drag and drop it where it's needed.*