

Monday, May 18, 2015

Beyond NanoDays:

New Ideas for Presenting the Smallest Science

Nano Nature Detectives

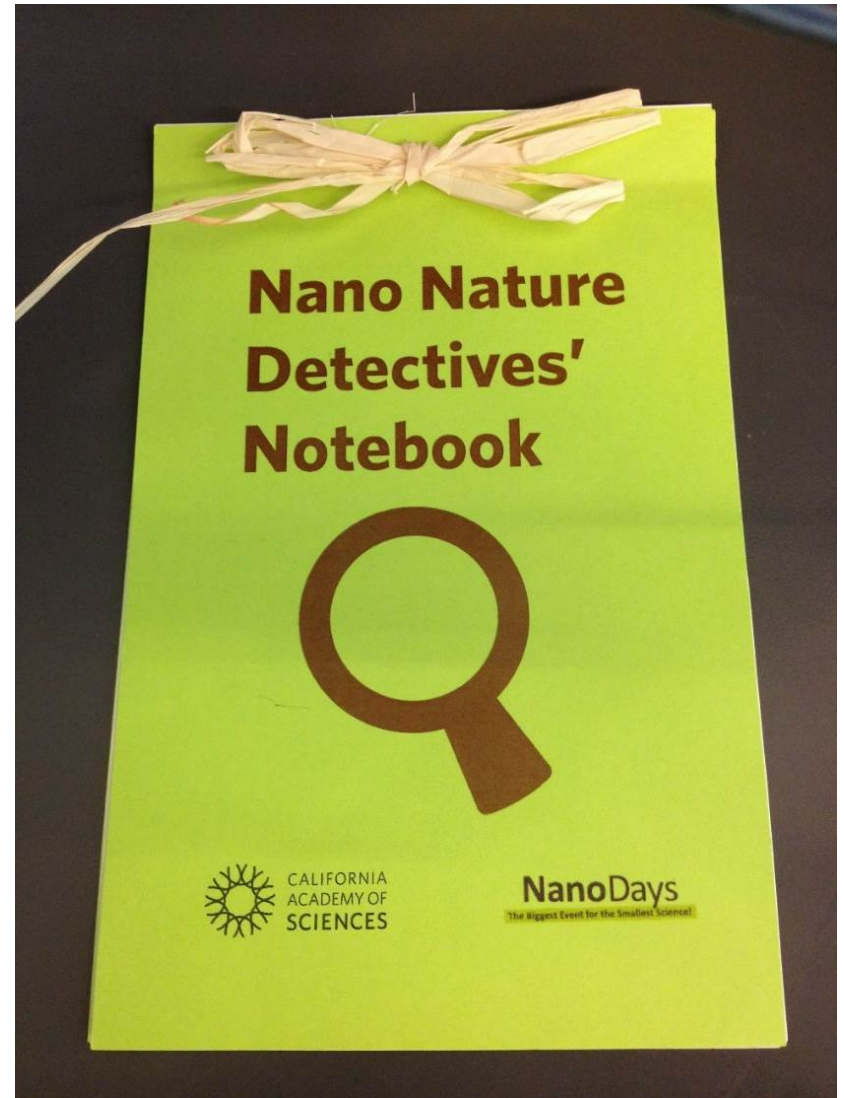
Discovering Nano with Early Childhood



CALIFORNIA
ACADEMY OF
SCIENCES

Nano Nature Detectives

- Exploring nano in nature
- Empowering caregivers to be their child's first science teachers
- Providing opportunities for adults and children to learn together



Activities Used



Nano at Family Night

First 5 and ROCK Family Night collaboration



Issues

- Making things appropriate for preschools
- Developing content for caregivers that they'd actually use
- Attracting the right age group

Addressing the Issues

- Pick and choose materials
- Have multiple kinesthetic activities
- Engage the senses
- Limit written content
- Partner programs

Conclusion



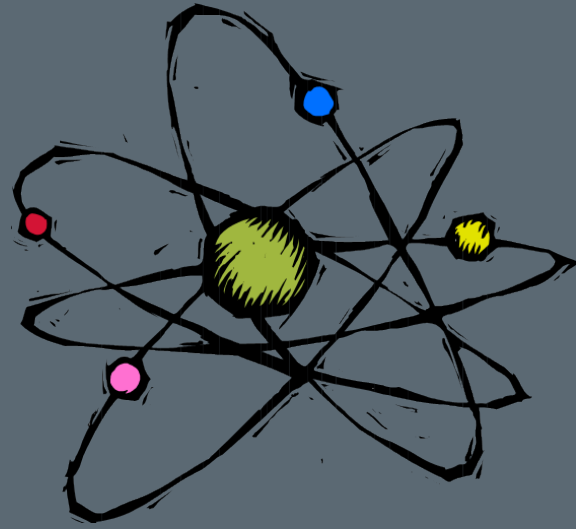


North Museum of Nature and Science

Lancaster, PA

Nora Sampaio, Early Childhood Coordinator





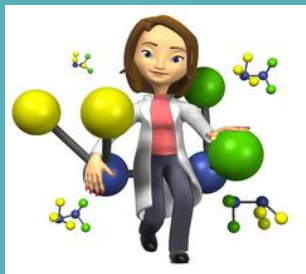
Flash Science



What is Flash Science?



Flash Science is a program that imitates the flash mob fad where a large group of people spontaneously break into a choreographed dance in a public place.



Instead of dancing, Flash Science volunteers pop up in a crowded area of the city to perform nanoscience experiments with the public.



(Flash Mob – dancing) + Nanokits = Flash Science

Program Goals



- 1) Raise public awareness for nanoscience
- 2) Promote real-life relevance of nano advancements
- 3) Educate staff and volunteers from local organizations
- 4) Reach new and underserved audiences

Program Logistics

- Each event was in collaboration with a local organization
- Take place in high traffic, public areas of the city
- Not publicized in advance
- Held during already scheduled events as well as independently



Lancaster Public Library

Lancaster Public Library

- **Mission:** The mission of the Lancaster Public Library is to be the leading community resource for culture and life-long learning.
- Event held during the Summer Reading Kickoff
- Nanokits used: Scented Balloons, Oobleck



Crispus Attucks

Crispus Attucks

- **Mission:** Crispus Attucks Community Center strives to improve the quality of life for youth and families in Lancaster by providing services that promote community prosperity, physical and mental health; and by offering programs and cultural events which preserve the African American heritage.
- Event took place during National Night Out
- Nanokits used: Heat Transfer



Children Deserve a Chance

CDCF

- **Mission:** to support success-oriented youth from primarily under-represented communities in their pursuit of academic achievement, empowerment, and social engagement.
- Nanokits used: Invisibility, Ferrofluid, Hydrogel
- Students received a training before demonstrating kits



NISE net Resources

Collaborations

Pros

- ❑ Easier to reach target audience
- ❑ Improve visibility in the community
- ❑ Double pool of volunteers to draw from

Cons

- ❑ Collaborating during other organizations' events can overshadow Flash Science mob
- ❑ More difficult to coordinate with volunteers

Troubleshooting

- Need for attention-catching entrance
 - Added Liquid Nitrogen “Explosion”
 - Possibility of playing music
- Overshadowed at events run by other organizations
 - In the future, Flash Mobs will not coincide with other events
 - Members of the public could be notified on the day of the event through social media

CONTACT US
Questions, comments, story ideas?
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SATURDAY, AUGUST 16, 2014, LANCASTER, PA., PAGE A6

Mom's losing the ability to censor herself

DEAR ANNIE: My mom is in her 70s. She always had trouble controlling what comes out of her mouth, but it seems to be getting worse.

Mom often insults others by making offensive comments or asking rude questions. When they attempt to respond, she laughs in their face. I have heard Dad rebuke her on occasion for this behavior, but it doesn't seem to make any difference. She goes on to offend or tease the next person. Mom monopolizes every conversation. She answers every question, even those not directed at her. She chatters nonstop and will not allow for any silence in a conversation. Simply being around her is exhausting.

I worry that Mom is severely limiting her options in terms of who she would be willing to care for her in the future. She is so aggressive that no one wants to be around her. She doesn't seem to realize that the more words she carelessly speaks, the greater the likelihood that something regrettable will come out. Is there anything I can do or say to her that might make a difference?

CAN'T THINK BEFORE SPEAKING
DEAR ANNIE: Has your mother had a complete checkup lately? Sometimes these problems are the result of neurological or other physical or neurological issues. On occasion, trouble does not last long.



Annie's Mailbox



The science of creating a mob scene

BY MARY BETH SCHWEIGERT
Staff Writer
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Busy shoppers hurrying to and from Lancaster Central Market stopped short Friday morning when a white cloud suddenly appeared in Penn Square. The attention-grabbing cloud—caused by combining liquid nitrogen with hot water—drifted down Queen Street, kicking off a “Flash Science” event hosted by the North Museum of Natural History & Science. Museum education specialist Nora Joyce describes “Flash Science”—a group of people who suddenly pop up in a public spot, perform a twist on a dance routine, then disappear.

Lancaster Public Library and Crispus Attucks Community Center. Joyce hopes to continue the events into the fall, weather permitting. Students from the Children Deserve a Chance Foundation, which aims to engage local youth with the values of education and hard work, performed three nanoscience experiments for Friday's crowd. Melissa Buzcz, co-founder of the founda-



Richard Hordner / Staff photo

Article in Lancaster Newspaper

QUESTIONS?



El Paso Chihuahuas Baseball in Education



El Paso Chihuahuas Baseball in Education



EL PASO
EXPLOREUM

El Paso Chihuahuas Baseball in Education



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Questions?