PASSPORT



Your Name: _____

Your School:

Chicago's Navy Pier

October 14, 2004

Dear "What's Next" participant:

Thank you for joining us today for this exciting expo.

This expo is full of fascinating and creative ideas and prototypes. The technologies you will see today take time and money to create, but the most important ingredient in their success is IMAGINATION. You will see how yesterday's daydreams have become today's discoveries.



As you visit the different exhibits, make sure you speak with the scientists and ask questions about their ideas. Their life's work in science and technology is the key to a more exciting future and a more secure world

Who knows, maybe you have an idea that could be "What's Next" in science or technology!

Whatever your dream, this is future science for you!

Spencer Abraham Secretary of Energy

- Jen en Alendrae

WHAT'S NEXT SCHEDULE

9:00-9:45 AM	Students Arrive, go to ballroom for pre-show activity		
10:00 AM	Program begins in Ballroom		
10:40 AM	Students are dismissed from ballroom in shifts		
	based on group number		
10:45 AM	Exhibits begin on Second floor in Lobby and Balcony		
12:30 PM	Lunch begins according to the following schedule:		
12:30	Group 1 goes to lunch		
12:40	Group 2 goes to lunch		
12:50	Group 3 goes to lunch		
1:00	Group 4 goes to lunch		
1:10	Group 5 goes to lunch		
1:20	Group 6 goes to lunch		
1:30	Group 7 goes to lunch		
1:40	Group 8 goes to lunch		
1:00	Students return to exhibits after eating lunch		
1:30-2:00	Students assemble and head to their buses at		
	predetermined times.		
2:30 PM	Last buses depart.		

Participating Exhibitors and Exhibits:

Ames Laboratory

www.ameslab.gov

- Chill Out with Magnetic Refrigeration
- Photonic Frenzy

Argonne National Laboratory

www.anl.gov

- Chemistry
- Driving the Future: Fuel Cells
- Glass Blowing
- Materials of Tomorrow
- Meteorology: Forcasting the Future Today
- NEWTON Online and Ask a Scientist
- Palentology: Uncovering the Past
- Science for All
- · Science of Tovs
- Sizing it up: Microscopes and Forensic Science

Brookhaven National Laboratory

www.bnl.gov

- Computer Modeling in Structural Biology
- Magnetic Levitation Trains

Chicago Web Connection

• Providing internet access to teachers and students in the metro area

DELL DOE Federal Team

Visualization

Department of Energy - Office of Science www.science.doe.gov

Department of Energy - Workforce Development

www.scied.science.doe.gov

Department of Energy - Joint Genome Institute www.jgi.doe.gov

• Fruitful DNA Extraction--The first step toward sequencing genomes.

Fermi National Accelerator Laboratory

www.fnal.gov

- Can You Measure Something Without Seeing It?
- Can You Read Particle Tracks?
- Do Rules Matter?
- How Good is Your Aim? Knock Balls into One Another.
- Invisible Forces Here! What Can We Learn?
- Invisible Particles! What Can You Detect?
- It's Hiding! What Characteristics Can You Identify?
- Let's accelerate! Are you faster than the ball?
- Mr. Freeze

IBM

www.ibm.com

• Think Outside the Box

Idaho National Engineering and Environmental Lab

www.inel.gov

• Hazmat Cam - Wireless Video System

Lawrence Berkeley National Laboratory

www.lbl.gov

- Saving Energy by Solid State Lighting: Investigating Nanomaterials by Digital Image Processing in Microscopy
- · Seeing the Light

Lawrence Livermore National Laboratory	www.llnl.gov		
Rainbows of the Universe	www.mm.gov		
Science of the Future: Biotechnology			
National Energy Technology Laboratory	www.netl.doe.gov		
	www.neu.doe.gov		
 NETL 3D Data Visualization 			
National Renewable Energy Laboratory	www.nrel.gov		
 Fuel Cells and the Hydrogen Economy 	of the Future		
Oak Ridge National Laboratory	www.ornl.gov		
Radiation in the Middle School Classroom			
Pacific Northwest National Laboratory	www.pnl.gov		
A Geologic Solution to Global Warming			
 Acoustic Inspections - Seeing with Sou 	ınd		
What is a Robot? Robotics in Education and Industry			
Princeton Plasma Physics Laboratory	www.pppl.gov		
• Plasmas			
Stanford Linear Accelerator Center www	.sclac.standord.edu		
 High Speed data transfer will revolutionize your lives 			
Thomas Jefferson National Accelerator Facility	www.jlab.gov		
• Magnets, Electromagnets, and the Wo	, -		
Underwriters Laboratory	www.ul.com		
• I am Safety Smart!A Lesson in Hom	ne Safety		

USC, ANL, LLNL, LANL, ORNL, SNL, NCSU, UCSC, Second Sight

• Artificial Retina - Doheny Eye Institute at USC

www.doemedicalsciences.org

Getting Your Passport Stamped

When you are traveling around the learning stations today, you will find a lot of exciting science and technology from all over the country.

After learning from each station, you will want to have them stamp your passport with their stamp.

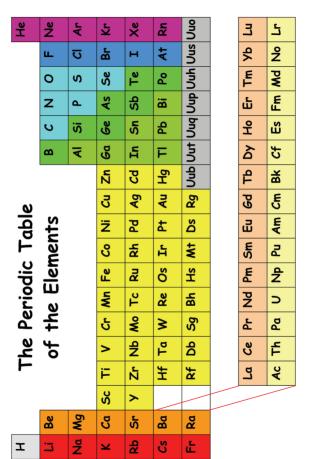
The stations are divided up into ten different groups, based on the different classifications of elements in the periodic table.

Each station has a stamp of an element from one of those groups. They will stamp your passport in the proper place for their element. For example, the Aluminum (AI) stamp can only go in the metals group.

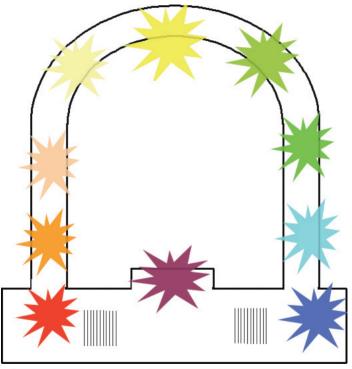
Your mission is to get at least ten stamps during your travels today.

When you are done, you can take your passport to the inspector station located in the grand ballroom and receive a goodie bag to take with you.

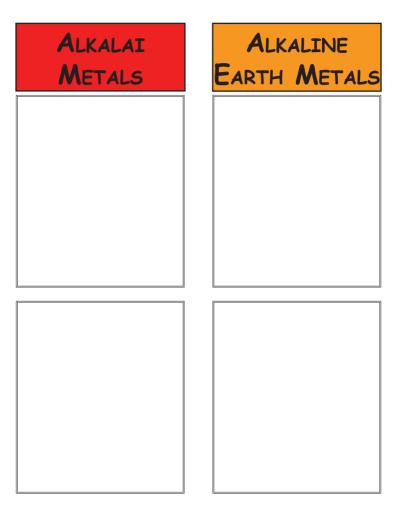
Most of all, have a good time and learn a lot!



Science Station Groupings

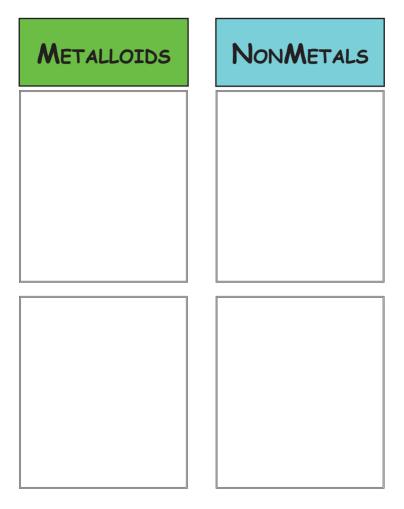


Alk	ali Metals	Lanthanides	Transition Metals	Metalloids	Halogens
	Alkaline th Metals	Actinides	Metals	Nonmetals	Noble Gases



Lanthanides	ACTINIDES

TRANSITION METALS	METALS	•



HALOGENS	Noble Gases

Notes .



science.doe.gov