

ILLINOIS STATE MUSEUM

EXPLORE.LEARN.DISCOVER.



Lab Rats

SATURDAY, JANUARY 29, 2011 • 1-3PM

See amazing science demonstrations and learn exciting skills in a hands-on workshop

Free for students in grades 6-8 Registration required by January 24 (see reverse)

For more information, call (217) 782-5993

This program is generously funded by Carrol C. Hall, long-time Springfield High School teacher and co-founder of Horace Mann Insurance Company.



Registration

Online: To register electronically, <u>bit.ly/chall11</u>

By Mail: Send this form to Illinois State Museum, Attn: Elizabeth Bazan, 502 S. Spring St., Spring-

field, IL 62706-5000

Information

Name	Grade	School	
Parent Name	Daytime Phone		
Address	Emergency Phone		
City	State	Zip	

Activity Sessions

		participate									
op four v	vorkshops	1-4 with or	e being th	ne highes	st. Session	ıs will be	assigned	on a firs	st-come	, first-	
served bo	asis.			_			_				

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	The Mysterious Nature of Light: Without light, there is no sight. Learn exactly what light is, why color is only an illusion, and how scientists use star light to discover what stars are made of from millions of miles away. In this workshop, you will use an old CD to create a hand-held spectrograph that will disassemble any light into its component colors to reveal secrets of its source. Project: Hand-held spectrograph
	Optical Illusions-3D: Seeing should not always be believing. Discover simple optical illusions that fool you every day and construct your own "dragon" that appears to stare at you no matter where you go. <u>Project:</u> The Gardner Dragon
	Turn Your Cell phone into a Video Microscope: By attaching a small magnifier to a spare plastic cell phone protector you can create your own digital video microscope. You'll learn how to use your new microscope to discover amazing things that are too small for the naked eye and create remarkable videos. Participants will need to bring a cell phone with a protective cover. <u>Project:</u> Digital microscope
	Explore the Stuff of Life: DNA is the remarkable molecule that contains the blueprint of all living things. You will learn about DNA and how to extract it from living cells for study at home using chemicals found in your kitchen. <u>Project:</u> DNA extraction kit
	101 Magic Tricks in 90 Minutes Flat!: Doing science is all about not fooling yourself. The best way to learn about the importance of the scientific method is to discover just how easy it is to be fooled and to fool others. In this workshop, Dr. Shawn will reveal simple ways to do remarkable magic: Mind reading, rope tricks, and the easiest method to find a selected card.
	Copper to Gold and Molecules as ArtA Hot Introduction to Cool Chemistry: In this workshop, you will make copper pennies appear to change into "silver" and even "gold" right before your eyes using a fun "tweak" of chemistry. You will also learn a colorful method that enables scientists to pluck particular molecules from a mixture and use it to create a unique work of art

Project: "Silver" and "Gold" pennies and an original chromatography artwork