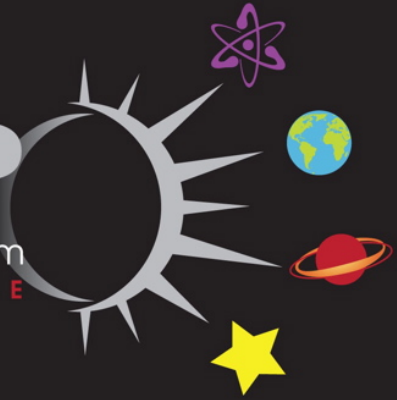


# RAUCH PLANETARIUM

Education, 09-10

**GSH&RP**  
Gheens Science Hall & Rauch Planetarium  
UNIVERSITY OF LOUISVILLE



Our Programs	Grades
The Planets	5 - 12
Get up close to the planets in this immersive program about our Solar System. On your journey meet some newly discovered exoplanets in our galaxy.	
Astronaut - NEW!	5 - 12
The exploration of space is the greatest endeavor that humankind has ever undertaken. What does it take to become an astronaut? <u>Tour the human body</u> and find out!	
Oasis in Space	5 - 12
Join the search for water in the Solar System, and explore the possibility of finding life beyond Earth.	
Our Place in Space	K-3
Join Scarlet Macaw and her friends as they solve a celestial puzzle. Along the way learn about the Sun and planets.	
Skies Over Louisville	1 - 8
Explore the night sky in this live and interactive program under the stars of the planetarium and learn the reasons behind the phases of the moon and the seasons.	
BIG	6 - 12
Explore the size and distance scales of our Universe and learn your cosmic address in this immersive show.	

## Moon Observations

The best date to start observing the phases of the Moon is **two days after a New moon**. The best time is **just after sunset**. Stand facing **South** for your observations.

## New Moon Dates

**2009:** 8/20, 9/18, 10/18, 11/16, 12/16  
**2010:** 1/15, 2/14, 3/15, 4/14, 5/14, 6/12

## Full Moon Dates

**2009:** 8/6, 9/4, 10/4, 11/2, 12/2, 12/31  
**2010:** 1/30, 2/28, 3/30, 4/28, 5/27, 6/26

## Moon Resources

A printable moon observation **handout** & lunar calendar is available on our website. Look for our new **Field Trip to the Moon** program, in 2009!

UNIVERSITY OF  
**LOUISVILLE**

**More on Back**

[www.louisville.edu/planetarium](http://www.louisville.edu/planetarium) **502-852-6664**

# A Field Trip that is Out of this World!

## Planning Your Field Trip:

★ Shows are offered Monday through Friday at 9:30 am, 11 am, and 12:30 pm.

★ Admission is \$4 per person for groups of 10 or more during the hours of Tu-F between 9 AM and 4 PM.

★ A variety of shows and workshops are available to meet your curricular needs. See back of page for details.

## Location:

Located on the Belknap Campus of the University of Louisville, this facility is uniquely positioned to offer technology and educational experiences connected to your curriculum that connect people to the universe and science in exciting and engaging ways. See our website for directions & maps.

## Scheduling a Field Trip:

Book a field trip by calling (502) 852-6665 or through the online request form at our website below. Reservations need to be made at least two weeks before the trip.

Please have the following **information** available when booking your trip:

★ Preferred date(s) and time(s)

★ Show and workshop selection(s)

★ Need for lunch period

★ Contact person's information

★ Age/grade level of group

★ Size of group (max = 160)

★ School/organization name

★ Address and phone number

★ Any special needs

Upon registration, a confirmation letter will be sent to you. Please review this letter for accuracy and inform us of any needed corrections.

## On the day of your trip:

Plan on arriving 15 minutes before your scheduled program, to allow time for check-in and introduction. When you arrive, please check in at the counter in the planetarium lobby. Payment is due at the time of the trip.

## Teacher Guides

There are free teacher guides for specific programs available on our website.

## The Sky This Year

### 2009:

8/6 Lunar Eclipse

8/10-9/4 Saturn's rings seen edge-on

8/12 Perseids meteor shower

9/22 Fall Equinox

10/13 Venus and Saturn close together in morning sky

10/21 Orionids meteor shower

11/17 Leonids meteor shower

12/13 Geminid meteor shower

12/21 Winter Solstice, longest night of the year.

12/31 Partial Lunar Eclipse

### 2010:

1/3 Quadrantids meteor shower

1/15 Annular solar eclipse

3/20 Spring Equinox

4/21 Lyrid meteor show

6/21 Summer Solstice, longest day of the year



Coming in 2009!  
NASA's Field Trip to the Moon  
show and workshop



Ask us about our...

- ★ Shows & workshops
- ★ Professional development
- ★ Distance learning
- ★ Family workshops
- ★ After-school clubs
- ★ Scouting events
- ★ Mission Monday programs
- ★ Space Adventure Camp
- ★ LIVE NASA events
- ★ Birthday parties