



FREE

Educator Resource Center

Workshops for Teachers

Free admittance to USSRC for workshop participants!!

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	 2	3	4
5	6	7	8	9 FLL Coaches Meeting 3:00-5:00 p.m. (ERC)	10	11
12	13	14 Intro. to LEGO Robotics 2:00-4:00 p.m. LEGO Programming 1 5:00-7:00 p.m. (ERC)	15	16 Lunar Plant Chamber 1:00-2:30 p.m. (NES/Online) LEGO Programming 2 5:00-7:00 p.m. (ERC)	17	18
19	20	 21	22	23	24	25
26	27 NASA Resources 10:00-11:00 a.m. (ERC Online)	28	29	30		

June 2011

Educator Resource Center • Hours of Operation: Monday–Friday 9 a.m. to 5 p.m.

To register or for additional information, contact Karen Kelley or Amy McDowell
karen.m.kelley@nasa.gov or amy.mcdowell@nasa.gov

Call 256-544-5812

NASA ERC located at the U.S. Space & Rocket Center

Reserve a Spot!

JUNE 2011

ERC: Alabama FIRST LEGO League Meeting **Thur., June 9, 3:00–5:00 p.m.**

If you coached a For Inspiration and Recognition of Science and Technology (FIRST) LEGO League (robotics) team this year or are thinking about being involved in LEGO robotics, please come join us! The ERC hosted several successful networking sessions among new and experienced coaches last fall—it's time to followup, share ideas, and discuss future plans! This is a great opportunity to meet and hear from Alabama's FLL Association Director, Dana Hobbs.

ERC: Introduction to LEGO Robotics **Tues., June 14, 2:00–4:00 p.m.**

Interested in robotics but don't know where to start? Do you want to start a For Inspiration and Recognition of Science & Technology (FIRST) Lego League (FLL) team at your school? This session is for you! After a brief introduction to robotics, NASA participants will build and program a very basic LEGO Mindstorms robot. We'll also share how the FLL robotics competition works. It is aimed at older elementary and middle school students, but the concepts are appropriate for any age student and are easy to learn.

ERC: LEGO Mindstorms Programming **Tue. & Thur., June 14 & 16, 5:00–7:00 p.m.**

If you've already had the Introduction to LEGO Robotics session, or have coached a team, and want to increase your programming knowledge and experience, this two-part workshop is for you. Presented by Kim Daugherty, whose FLL team "Monkey Madness" won the 2009 and 2010 Alabama FLL competitions, these sessions will provide ample instruction and practice activities with an

expert who can answer your questions about programming and coaching an FLL team.

Online: NASA Resources and Opportunities **Mon., June 27, 10:00–11:00 a.m.**

Come learn about the latest that NASA education has to offer you and your students. We'll provide some educator resources to take back to your classroom and introduce you to navigating NASA's vast online offerings—including professional development opportunities!

ERC Workshops: Join us in the ERC classroom, on the first floor of the Education & Training Facility, in front of the U.S. Space & Rocket Center in Huntsville, AL. *Workshops at the ERC will be canceled if no one has registered by the day before.*

Online workshops! You need only an Internet connection and audio capability to participate in the Educator Resource Center Network (ERCN) workshops. Register via ERC e-mail, and you will receive login instructions beforehand and a certificate of participation afterward.

To register, or for additional information, contact the Educator Resource Center by phone at 256–544–5812 or by e-mail at <MSFC-ERC@mail.nasa.gov>.

The ERC will be open all summer 9:00 a.m.–5:00 p.m., with the exception of Independence Day on July 4, when it will be closed. We recommend that you call to make an appointment for individualized assistance, since the ERC hosts many scheduled group sessions during the summer.

OTHER NASA RESOURCES: NASA Explorer Schools Webinars Online:

NASA Explorer Schools (NES) have teamed up with National Science Teachers Association (NSTA) and NASA Learning Environments and Research Network (LEARN) to offer exciting webinars featuring NASA's most popular educator guides. Don't worry about the technology—we have tech support ready to walk you through viewing and participating in the sessions.

You can register for upcoming NES/NSTA classes or view archived webinars through this Web site:

http://learningcenter.nsta.org/products/symposia_seminars/NES/webseminar.aspx

June 22	Messenger: Cooling With Sunshades	1:00–2:30 p.m. CDT
June 29	Math and Science @ Work: Lunar Surface Instrumentation	1:00–2:30 p.m. CDT
July 21	Lunar Nautics: Designing a Mission to Live and Work on the Moon	8:30–10:00 a.m. CDT
July 28	GENESIS: Exploring Data—A First Look	5:30–7:00 p.m. CDT

You can register for upcoming NES/LEARN webinars through their individual links:

June 7	Rockets Educator Guide	12 p.m. CDT
	https://digitalmedia.wufoo.com/forms/nes-webinar-registration-nasa-rockets-guide/	
June 16	Engineering Design Challenge: Lunar Plant Growth Chamber	11 a.m. CDT
	https://digitalmedia.wufoo.com/forms/nes-webinar-registration-plant-growth/	

NASA Earth and Space Science Education News features announcements on workshops, resources, and opportunities at this Web site: **<http://www.smdeponews.org/newsletter-archive/april-2011-education-update/>**

LAST SHUTTLE MISSION: STS-135 launch targeted for July 8!

Atlantis will carry the Raffaello multipurpose logistics module to deliver supplies, logistics, and spare parts to the International Space Station. The mission will also fly a system to investigate the potential for robotically refueling existing spacecraft and return a failed ammonia pump module to help NASA better understand the failure mechanism and improve pump designs for future systems: **http://www.nasa.gov/mission_pages/shuttle/shuttlemissions/sts135/index.html**
Shuttle Countdown Clock: **<http://countdown.ksc.nasa.gov/shuttle/countdown/cdt/>**

erc workshop calendar

