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SPACE  
CENTER  
HOUSTON

19th Annual  
Space Exploration Educators Conference

February 7-9, 2013

## Session descriptions

### Saturday



# Saturday 2/9/2013

7:15am	Doors open
8:00am-9:30am	First Session
10:00am-11:30am	Second Session
11:30am-12:30pm	Lunch Astronaut Jerry Ross book Signing (Spacetraders)
12:45pm-2:15pm	Third Session
2:30pm-3:30pm	Key note - LaVar Burton
3:30pm-3:45pm	Door prizes/ Farewell
3:45 pm	Dismiss/Certificates in O-G Dinner
4:30pm	Conference Help Desk Closes
7:00pm	Space Center Houston Closes

Sessions will take place at Space Center Houston and JSC Gilruth \*8 Hours CEP Credit

## Session Selection

Selecting your individual breakout sessions is easy! Just read through this conference booklet to see the selections for each time slot. Then, use the "Organize Your Sessions" form on page 10 to organize your sessions. Finally, go online and make your session selections at [www.spacecenter.org/TeachersSEEC.html](http://www.spacecenter.org/TeachersSEEC.html).

Sessions that are full will not appear. It's that easy! **Just be sure to move quickly as some sessions fill up fast.** Breakout sessions include NASA tours as well as the hands-on sessions. Tours fill up especially fast, so please plan accordingly. **(All tours require closed-toe shoes)**

If a session is full, don't worry. Check with the Conference Help Table when you arrive to see if there are openings or watch the "swap" board for the session ticket.

If you have any questions, please contact us by e-mail at [SEEC@spacecenter.org](mailto:SEEC@spacecenter.org).

**8:00AM– 9:30 AM**

**AIAA Educator Academy: Mars Rover Curriculum**

*Edgar A. Bering, III, University of Houston  
Andrew J Kapral, University of Houston*

We will describe the AIAA Educator Academy and one of its curricula, the Mars Rover Model Celebration. Participants will learn two activities; one with the use of a flashlight and mirrors to explore the problems of Mars surface telemetry and the other will teach you how to simulate Mars geological studies in the classroom.

*Grades: 3-8      Subjects: Science, Language Arts, Math*

**Application of Mechanics in Space Settlement**

*Naveep Sharma, Police Dav Public School  
Karam Kinder Singh, Police Dav Public School*

This session will introduce the concepts of physics; specifically the application of mechanics in the designing of space settlements. It will cover three major aspects which are necessary to develop self sustainable habitats for humans in space; stable equilibrium, pseudo gravity generation and wobble control.

*Grades: 9-12      Subject: Science*

**Be a Space Engineer: Build and Test LEGO Simple Machines**

*Angelo Casaburri, Aerospace Education Service Project*

Experiment with LEGO simple machines applying the scientific method to study how they operate on Earth. Watch videos of the International Space Station crew orbiting the Earth as they apply forces to the LEGO simple machines in the micro-gravity environment of space. Compare your 1-G data with their 0-G results.

*Grades: 6-8      Subjects: Science, Math, Technology*

**Come Fly with Civil Air Patrol!**

**(Double Session)**

*Susan Mallett, Civil Air Patrol  
Debbie Dahl, Civil Air Patrol*

Fly over Houston in Civil Air Patrol airplanes, weather permitting. Take aerial photos, learn about flight, get airfield tour, and receive free K-12 STEM materials! Must be a CAP teacher member to fly. Join at [www.capmembers.com/joinaem](http://www.capmembers.com/joinaem). Use Coupon Code SEEC for 1/2 price (\$17.50). Lots of free membership benefits! Can also fly free back at your local airport! **NOTE: This is a double session!**

*Grades: K-12      Subjects: Science, Technology, Math*

**Demonstrating Microgravity to Classrooms and the Public**

*Richard DeLombard, Mr. Microgravity LTD  
Nancy R. Hall, NASA Glenn Research Center*

Learn why "zero gravity" is a misnomer and learn how to demonstrate microgravity to students and the general public. The session will include demonstration techniques for Physics, Forces & Motion, and orbits. Learn the simple reason behind weightless conditions; it is NOT "zero gravity." "Play" with microgravity in the session.

*Grades: 6-12      Subjects: Science, Technology*

**Explore The History of Manned Space Flight**

*Jeri Brown, NASA Alumni 1964-1998*

Your journey into space begins with a tour of Space Center Houston's Starship Gallery and Space Shuttle Mock-up. Trace the progression of America's Manned Space Flight with the actual Mercury "Faith 7" capsule flown by Gordon Cooper, the Gemini V Spacecraft piloted by Pete Conrad and Gordon Cooper, a Lunar Rover Training Vehicle, the Apollo 17 Command Module and the giant Skylab Trainer. Then, explore the Space Shuttle mock-up to find out if you have the right stuff!

*Grades: K-12*

**Field Trip to Mercury!**

*Christina Dorr, Ph.D., Hilliard City School District/NASA MESSENGER Educator Fellow*

Fly to Mercury via NASA's Discovery mission MESSENGER! As participants, you will ask an inquiry question, orbit Mercury, collect data, and discover several ways of presenting your findings and relating them to Earth. Take this method back to your classroom. Books and other resources will be shared, and door prizes! Please bring a Laptop or Tablet.

*Grades: K-12      Subjects: Cross Curriculum*

**ISS CONSTRUCTION SIMULATION (Dive Session) (Double Session)**

*Craig Shannon, NBL Dive Master*

Train like astronauts in this exciting session! You will participate in underwater training exercises using SCUBA gear in a local indoor pool. No previous experience necessary. **Bring a swimsuit and towel. (T-shirts not required but helpful)** Participants **must attend** the mandatory meeting on Thursday, February 2nd at 7:15 AM. Additional \$35 charge for this session. **NOTE: This is a double session!**

*Grades: k-12*

### **Japanese Presentation on Flight**

*Masato Kan, Mitaka Dai-Go Junior High School  
Naoko Morita, Musashino College Affiliated Preschool*

Learn from Japanese teachers how to make three different flying mechanisms made from household objects. Participants will make a kite from Styrofoam paper, a plane/rocket made of umbrella bags and a syringe rocket launcher. Come join this fun, learning experience and try out your flying skills.

*Grades: K-12      Subject: Science*

### **Launch a Quadrilateral into Space**

*William C. Luke, Central Texas College  
Gregory P. Luke, Temple High School*

Using no scissors, glue or tape, educators will construct a rocket using a single sheet of square paper (regular quadrilateral). Educators will determine their Rocket Fuel formula using effervescent tablet, choice of liquid (soda water) and liquid temperature (Cold, Warm) then launch their rockets using a film canister, effervescent tablet, liquid (water, soda) and tape (optional).

*Grades: 6-12*

*Subjects: Science, Technology, Language Arts, Math*

### **LEGO WeDo™ Robotics – Ham's Space Adventure**

*Sue Hare, iSPACE  
Nancy Rogers, iSPACE*

LEGO WeDo™ Robotics is an ideal tool for engaging early elementary-aged students and introducing them to the exciting world of robotics. You'll be able to create a LEGO model of Ham the Astrochimp and program him to drum some cool rhythms as he celebrates his spaceflight accomplishments. (Watch out Max Q!)

*Grades: K-5*

*Subjects: Science, Technology, Language Arts, Math*

### **NASA Explorer School Program and You!**

*Joan Labay-Marquez, Boerne ISD*

This NASA classroom-based gateway will provide authentic learning experiences designed around NASA's unique missions while promoting student engagement in science, technology, engineering and mathematics based on NASA's resources. Be sure to bring your laptop to this session and you will see Emmy Award winning NASA Now Classroom Videos, lessons and activities emphasizing STEM

*Grades: 4-12      Subjects: Science, Technology, Math*

### **Planets in the Playground**

*Nancy Uziemblo, Washington State Dept. of Ecology  
Erika Holmes, Washington State Dept. of Ecology*

This session will detail and demonstrate engaging facts about the planets and moons in our solar system through a fun, active, and educational lesson. Acting as the planets and moons, relative distances from the Sun will be illustrated by using a rope on the playground!

*Grades: 3-5*

*Subjects: Science, Physical Education and Health*

### **Race To Space**

*Jamie Putman, Hazel Green High School*

Race to Space is a workshop **focused on how to use simulations and group activities that will complement your lectures. An easily made board game is used for the simulation and several group activities will be presented in the context of the 1960s Space Race.**

*Grades: 9-12*

*Subjects: Science, Social Studies, History*

### **Saturn V and Rocket Park Tour**

Travel by tram and take a look at our Mercury- Redstone and Little Joe II rockets. Explore the mighty Saturn V rocket that took astronauts to the moon at our own Rocket Park.

*Grades: K-12*

### **Three Bears in Space: B.E.A.R. (Bear Egress and Recovery) Parachutes**

*Bev Ketron, iSPACE, Inc.  
Sharon Young, iSPACE, Inc.*

Join iSPACE and the three space bears, Mercury, Gemini, and Apollo, in discovering the excitement of space exploration! Receive aeronautics lesson plans to use with junior space explorers. You will work in teams designing and testing B.E.A.R. parachutes. It's a paws-on, minds-on exploration with literature connections you can't bear to miss!

*Grades: K-2      Subjects: Science, Math*

### **Zero Robotics**

*Wendy Feenstra, MIT  
Alvar Saenz-Otero, Research Scientist, MIT*

Zero Robotics is an online programming competition where students write autonomous programs for satellites, first in simulation and then the finalist send their code to the International Space Station. In this workshop you will learn how this Zero cost, Zero setup programming environment can enhance your school's STEM curriculum.

*Grades: 6-12      Subjects: Science, Math, Technology*

**10:00 AM– 11:30 PM**

### **The Colorful (and Edible) Earth**

Brandi Chausse, Stella Worley Middle School  
Morgan McKinley, Houston ISD

Do your students like food and hands-on activities? Here's your chance to combine the two! You will create an edible Earth and describe its layers and crustal movement. Old crayons will help guide you through the rock cycle as we shave, smash, and melt them. Electronic materials will be given!

*Grades: 3-12      Subject: Science*

### **Build a Closed Ecosystem for a Fish, Simulating ISS Living**

*Craig Wilson, Ph.D., USDA/HSINP and TAMU*

Participants will build a closed ecosystem for a small fish to survive. They will compare the fish in the ecosystem to the lives of astronauts on board the International Space Station and the connection to long duration space flight. They will receive lesson plans and worksheets for use with their students.

*Grades: 6-8      Subjects: Science, Technology, Math*

### **Go Beyond...ThinkGlobalFlight**

*Lori Beth Bradner, Polk County School District  
Capt. Judith A Rile, thinkglobalflight.org*

The new frontier of STEM education is taking flight! THINKGLOBALFLIGHT's ultimate goal is to promote the importance of STEM Education and the boundless opportunities in aviation and aerospace industries to educators and students world wide. This international in-flight journey will cultivate and promote a greater awareness and interest in STEM by way of an around-the-world flight-of-adventure by Capt. Judith Rice in the fall of 2013. You will be introduced to the wonderful opportunities in the Student Command Centers and the newest technology developed by Fly To Learn, Powered by X-Plane in conjunction with NASA's own FLYBYMATH. No flight simulators needed! This is one flight you and your students won't want to miss!

*Grades: 3-12*

*Subjects: Science, Technology, Math, Social Studies, History*

### **Google Documents, free cloud technology for the classroom**

*Robert S. Radnich, Meadville Area Senior High  
Harry G. LaForge, Jr., Hoffman Pilot Center*

Teachers will learn and practice many ways to use Google Docs to have students and teachers collaborate using this modern free cloud technology. (Bring your laptop if you have one, this class practices and models the skills actually learned.)

*Grades: 6-12*

*Subjects: Science, Technology, Language Arts, Social Studies*

### **Explore The History of Manned Space Flight**

*Jeri Brown, NASA Alumni 1964-1998*

Your journey into space begins with a tour of Space Center Houston's Starship Gallery and Space Shuttle Mock-up. Trace the progression of America's Manned Space Flight with the actual Mercury "Faith 7" capsule flown by Gordon Cooper, the Gemini V Spacecraft piloted by Pete Conrad and Gordon Cooper, a Lunar Rover Training Vehicle, the Apollo 17 Command Module and the giant Skylab Trainer. Then, explore the Space Shuttle mock-up to find out if you have the right stuff!

*Grades: K-12      Subject: History*

### **I Believe I Can Fly!**

*Janice Kibbe, STEM Middle Academy  
Ronald Shaughnessy,*

Do you want to run an Aeronautic Camp or after school club? This session will have you learning through hands-on the principles of Flight in Action! Gliders, rockets, hot air balloons, lessons, resources and even live how to schedule a webinar with a NASA Aerospace Educator.

*Grades: 6-8      Subject: Science*

### **I Want to Hold Your Hand**

*Beth White, NASA AESP*

NASA uses robotic explorers to collect information about places where humans cannot travel. This classroom activity leads students to build and test a robotic-like hand. Participants will construct a robotic-like hand and demonstrate how data are collected when using robotic technology. Participants will receive updates on current NASA robotics.

*Grades: K-2*

*Subjects: Science, Technology, Physical Education*

### **Kinesthetic Astronomy in the Classroom**

*Dave Schlichting, Eaglecrest High School, CO*

Kinesthetic Astronomy engages students physically and mentally to enrich their understanding of astronomical concepts. SEEC participants will engage in several activities that enhance understanding of day/night cycles, sidereal and synodic years, and lunar cycles. Copies of all activities are provided.

*Grades: 6-12      Subject: Science*

### **LEGO Bricks in Space**

*Barb Gosney, Fireside Elementary School*

STEM is out of this world! Your students can experience outer space as they team up with the crew of the International Space Station (ISS) to explore the effects of microgravity on simple machines. We can excite the astronauts, engineers, and scientists of tomorrow with this STEM curriculum. You will receive teacher materials, weblinks, and grant resource information. Play with blocks and experience curriculum to excite your students.

*Grades: 3-8*

*Subjects: Science, Technology, Math, Language Arts*

### **Miniature, Pneumatically Controlled Canadarm**

*Stanley R. Taylor, Scientists in School*

I will conduct a hands-on workshop for up to 50 educators on how to build a miniature, pneumatically-controlled Canadarm. Educators will take home their assembled Canadarm and with the Instruction Booklet provided, teach their students from Grades 4-8 and possibly Grades 9-12 students how to build one.

*Grades: 3-12*

*Subjects: Science, Technology, Math, History*

### **NASA Engineering Activities under \$1.00**

*Samantha Rogers, NASA HSC ERC*

*Jennifer Hudgins, NASA HSC ERC*

Help kids understand the engineering design process in your classroom using items you already have or can find in a dollar store. Session will introduce you to six activities you can use in your classroom including one hands-on activity to build a landing system that will protect two "astronauts".

*Grades: 3-8      Subjects: Science, Technology, Math*

### **Reverse Engineering**

*Marilyn Ortiz, Jersey City Public Schools*

*Mary Vaughn, Hillsborough County School*

Have you ever taken something apart to find out what is inside? Participants will take a look at existing engineering objects and learn how the objects were designed and how they work. At this session you will become an engineer by using a process called reverse engineering to understand how something functions and to determine ways it can be improved.

*Grades: 3-5      Subjects: Science, Technology, History*

### **Saturn V and Rocket Park Tour**

Travel by tram and take a look at our Mercury- Redstone and Little Joe II rockets. Explore the mighty Saturn V rocket that took astronauts to the moon at our own Rocket Park.

*Grades: K-12      Subject: History*

### **Space Center Houston Presents**

*Alice Walker, Curriculum Coordinator*

*Dr. Melanie Johnson, Education Director*

No matter where you might be located, Space Center Houston can be a part of your students' world. Find out about our premier methodology and how you can access it for your classroom. Space Center Houston offers a variety of programs for students and teachers both nearby and far away. Provide the relevant and rigorous experiences your students deserve!

*Grades: K-12      Subjects: Cross Curriculum*

### **Spacewalker: My Journey in Space and Faith as NASA's Record-Setting Frequent Flyer**

*Jerry Ross, Former Astronaut (Colonel, USAF, ret.)*

Join Jerry Ross (Colonel, USAF, ret.) as he takes you through what it is like to be a Spacewalker. Jerry has flown a world record 7 times in space and spent 58 hours and 15 min conducting 9 spacewalks. Find out what 0-g is really like.

Learn about his book Spacewalker: My Journey in Space and Faith as NASA's Record-Setting Frequent Flyer.

*Grades: K-12      Subjects: History, Science*

### **The Solar System is YOUR Neighborhood**

*Adair Teller, Solar System Educator, Los Angeles County Office of Education*

*Paula Garrett, First Grade Science Teacher Runnels School*

*Baton Rouge, Louisiana*

*Joan Blackman, Solar System Ambassador a Stuart, Florida*

Join us on a visit to our Solar System. Discover how to integrate Science and Social Studies that will meet the K-2 standards. Students will learn that the planets are our neighbors in the Solar System. Hands on activities will be used to model our Sun and Planets.

*Grades: K-2*

*Subjects: Science, Language Arts, Social Studies*

**12:45 PM– 2:15 PM**

### **Explore The History of Manned Space Flight**

*Jeri Brown, NASA Alumni 1964-1998*

Your journey into space begins with a tour of Space Center Houston's Starship Gallery and Space Shuttle Mock-up. Trace the progression of America's Manned Space Flight with the actual Mercury "Faith 7" capsule flown by Gordon Cooper, the Gemini V Spacecraft piloted by Pete Conrad and Gordon Cooper, a Lunar Rover Training Vehicle, the Apollo 17 Command Module and the giant Skylab Trainer. Then, explore the Space Shuttle mock-up to find out if you have the right stuff!

*Grades: K-12 Subject: History*

### **ISS Mission - A Challenging Space Endeavour**

*Florentia Spires, NASA Endeavour Fellow*

*Rebecca Christian, Reading Specialist*

Emphasis will be placed on strategies for methods that integrate STEM vocabulary and technology to assist struggling readers in STEM literacy schemata development. Educators will then have an opportunity to witness how the reading skills enhance learning through implementing an engineering design process that utilizes the reading strategies exposed to student in preparation for the activity.

*Grades: K-2 Subjects: Science, Math*

### **Bring LIVE ISS data to your classroom**

*Monica Trevathan, NASA ISS-Education*

*Matthew Healy, NASA Mission Operations*

*Bring LIVE data from the ISS to your classroom and, participate in a focus group to provides NASA Education your ideas on using the ISS Live! Website in your classroom. NASA is ready to build new content for you– based on your input! Access the website and come to this session with ideas: <http://spacestationlive.nasa.gov>. Load the app to your mobile device and bring it with you.*

*Grades: 6-12 Subject: Science, Technology, Math*

### **Mars Robotics**

*Michael Myers, Liftoff Educator & SEEC Alumni*

*Susan Foxworth, Solar System Educator*

Learn about the challenges of programming robots for Mars expeditions. Participants will move through three basic challenges using various sensors to complete their tasks and learn about the challenges of future space exploration. Participants will also program NXT Robots in hands-on activities. This session will teach you how to include other technologies such as Smart phones and tablets. Learn how to make NXT Robotics a part of your classroom. Door prizes and CD's!

*Grades: 3-12 Subjects: Science, Technology, Math*

### **Moon, Mars, and Mashed Potatoes 'N a Mapping Mission**

*Bart Chatfield, St. Mary School*

You will evaluate landing sites using satellite imagery from the Moon, Mars, and...mashed potatoes. This space-themed lesson plan for computer/technology educators also uses Microsoft Excel and Adobe Photoshop (or similar programs) to demonstrate how to turn 2D images into 3D. Bring your laptop or iPad!

*Grades: 6-8 Subject: Science*

### **Parking Lot Rocketry**

*Gregory P. Kennedy, NASTAR Center*

This workshop covers inexpensive rocket activities that may be used in limited spaces, like school parking lots or playgrounds. Participants will construct paper "stomp rockets" that use compressed air for propellant, "puff rockets" that can be launched with a drinking straw, and balloon powered cars.

*Grades: 6-8*

*Subjects: Science, Technology, Language Arts, Social Studies, History*

### **Saturn V and Rocket Park Tour**

Travel by tram and take a look at our Mercury- Redstone and Little Joe II rockets. Explore the mighty Saturn V rocket that took astronauts to the moon at our own Rocket Park.

*Grades K-12 Subject: History*

### **Send Your School to Space for a Week**

*Bill Decker, C.O. Wilson Middle School*

*Keith Clarke, C.O. Wilson Middle School*

Come find out how we incorporated Math, Science, and Technology into a week-long unit on Space and Space Travel with History, English, and Art. We'll complete a hands-on activity that answers the question, "How do you weigh an object without using gravity?"

*Grades: 6-12*

*Subjects: Science, Math, Language Arts, Technology, Fine Arts, Social Studies, History*

*Grades: 6-12 Subjects: Science, Technology, Math*

### **Teaching Flight and Survival Using NASA's 'Museum in a Box'**

*April Lanotte, NASA Aeronautics Research Mission Directorate*

*Paulo Oemig, NASA Goddard Space Flight Center*

Can you make a cheeseball hover? Build a pressure suit for a Peep? This fun K-12 physical science workshop allows participants to try free downloadable NASA lessons and activities that teach about the principles of flight, forces, and motion using new 'Museum in a Box' educational materials.

*Grades: K-12      Subject: Science*

### **Using Engineering Simulation Tools to Explore Earth and Space Science**

*Jordan Cox, PTC*

*Alyssa Walker, Christa McAuliffe Center*

Explore STEM concepts in space exploration using Creo Parametric, a real world engineering simulation tool free to K-12 educators. Hands-on activities involve simulating gravitation force at different locations in space, exploring centrifugal force with handheld gyroscopes, discussing interactions between these forces, and synthesizing concepts to design a futuristic space station.

### **Van Allen Probes: Investigating Earth's space Weather**

#### **Environment (and more research opportunities)**

*Diane Cole Sartore, Neat/Pine Ridge HS*

*Bhavna Rawal, Quest Early College HS*

*Holly Mentillo, Ocean Breeze Elem.*

*Betty Bigney, Dixon Elem.*

The Van Allen Probes have begun exploring Earth's highly energetic magnetic belts! We have hands-on activities and high-interest demonstrations to help K-12 students understand important aspects of Earth's dynamic radiation belts. Come romp through everything from torus models to a budget cosmic ray detector. (another FAB 5 session)

*Grades: K-12      Subjects: Science, Technology*

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# Saturday February 9, 2013

## 8:00 am-9:30 pm

- AIAA Educator Academy: Mars Rover Curriculum
- Application of Mechanics in Space Settlement
- Be a Space Engineer: Build and Test LEGO Simple Machines
- Come Fly with Civil Air Patrol! (Double Session)
- Demonstrating Microgravity to Classrooms and the Public
- Explore The History of Manned Space Flight
- Field Trip to Mercury!
- ISS CONSTRUCTION SIMULATION (Dive Session) (Double Session) \*
- Japanese Presentation on Flight
- Launch a Quadrilateral into Space
- LEGO WeDo™ Robotics – Ham's Space Adventure
- NASA Explorer School Program and You!
- Planets in the Playground
- Race To Space
- Saturn V and Rocket Park Tour
- Three Bears in Space: B.E.A.R. (Bear Egress and Recovery) Parachutes
- Zero Robotics

## 10:00 AM– 11:30 PM

- Build a Closed Ecosystem for a Fish, Simulating ISS Living
- Colorful (and Edible) Earth
- Come Fly with Civil Air Patrol! (Continued)
- Go Beyond...Think Global Flight
- Google Documents, free cloud technology for the classroom
- Explore The History of Manned Space Flight
- I Believe I Can Fly!
- I Want to Hold Your Hand
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- LEGO Bricks in Space
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- The Solar System is YOUR Neighborhood
- Space Center Houston Presents
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- Explore The History of Manned Space Flight
- ISS Mission - A Challenging Space Endeavour
- Mars Robotics
- Moon, Mars, and Mashed Potatoes 'N a Mapping Mission
- Parking Lot Rocketry
- Van Allen Probe: Investigating Earth's space Weather Environment (and more research opportunities)
- Saturn V and Rocket Park Tour
- Send Your School to Space for a Week
- Teaching Flight and Survival Using NASA's 'Museum in a Box'
- Using Engineering Simulation Tools to Explore Earth and Space Science

\*You will not see the dive session on the on-line session selection. We will place you in the session by our staff. Please leave that time slot empty.



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