

MIDDLE ATLANTIC PLANETARIUM SOCIETY
2015 CONFERENCE

UNIVERSAL KNOWLEDGE

MAY 13 - 16, 2015

CRADLE OF AVIATION MUSEUM
GARDEN CITY, NY



Cradle of Aviation Museum 
and Education Center


NASSAU
COMMUNITY
COLLEGE

THURSDAY, MAY 14TH

“BEYOND ASTRONOMY”

7:30 AM

Breakfast & Registration
Red Planet Cafe & Atrium

8:30 AM

Presented in the Jet Blue Sky Theater Planetarium

Opening Remarks - *Jennifer Baxmeyer, Cradle of Aviation Deputy Director*

Deb Lawson

Prismatic Magic

Starlight Productions

Sky-Skan

Steve Dubois

GOTO Inc

Audio Visual Imagineering

11:00 AM

Group Photo - Lunar Module

11:30 AM

Presented in the Red Planet Cafe

Vendor & Delegate Talks with RSA Cosmos & Patrick McQuillian

Lunch

1:15 PM

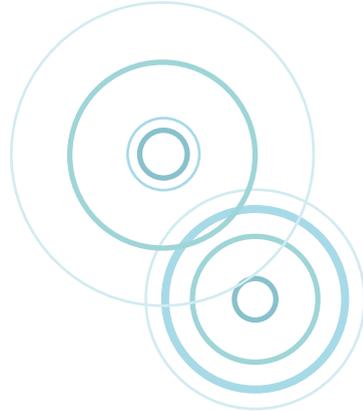
Workshops

Partnerships

Catherine Bingham - LEM Room

Writing for Immersive Media

Evans & Sutherland - Space Gallery



DELEGATE WORKSHOPS

Is The Red Planet Really That Different From Our Own?

with Tracy Imperato, Nassau Community College

Participants will engage in an interactive workshop that explores and decodes surficial features and geologic processes on Mars. Various geology based Earth analogs will be utilized alongside real Mars data/images in order to draw comparisons between the two planets. This workshop will be a participant driven, hands-on experience using computers/iPads to access content materials.

Museums and Scholarship Partners

with Catherine Bingham, Cradle of Aviation Museum

The Cradle of Aviation Museum seeks to inspire students to study the STEM fields (Science, Technology, Engineering and Mathematics) and to showcase exciting opportunities in these fields. To help bridge the gap between careers and education, the museum has created many new STEM Partnerships with local school districts. Through these hands-on, innovative programs students are able to explore the benefits of STEM education. Come learn some techniques and tools to bring STEM to students, discuss some of the educational initiatives, and discuss ways to build your own partnership.

NeuroDome

with Dr. Jonathan A.N. Fisher, The Neurodome Project and New York Medical College & Kerri Kiker, Cradle of Aviation Museum

New technology is changing the way that scientists can view the brain. At a microscopic level, researchers can visualize sparks of electrical activity in individual neurons and resolve motifs of neural connectivity that ultimately support consciousness, emotions, and complex thought.

Planet Hunters!

with Patty Seaton, Howard B. Owens Science Center

At the Howard B. Owens Science Center, we implement the use of iPads and the use of the Exoplanet app to allow 5th grade students the opportunity to use real-time data to make connections between explanatory systems and our own solar system. Explore in a classroom the activity we provide as a part of a 2 hour session for students in the planetarium, we'll explain how to use the planetarium to support the activity.

Planetarium Tips and Tricks: Share-a-Thon

with Joel Lamb, Nassau Community College

Learn about some of the tips and tricks used in the Nassau Community College Planetarium. Audience participation encouraged.

The Reasons for the Seasons

with Tom Bruckner, Nassau Community College

Teach the seasons under the dome using Sam Storch's Reasons for the Seasons interactive activity. The same program will be demonstrated by both optical-mechanical and digital projection systems.

THANK YOU TO OUR SPONSORS FOR YOUR GENEROUS SUPPORT

WEDNESDAY, MAY 13TH

FIRST MAGNITUDE



5:00 PM

Registration

Welcome & Hors d'Oeuvres
Atrium

6:30 PM

New Attendee Meet & Greet
Red Planet Cafe

Tour of the Museum

Cradle of Aviation Museum Galleries

8:00 PM

Presented in the Jet Blue Sky Planetarium

"Welcome to Long Island"
Planetarium Show

8:30 PM

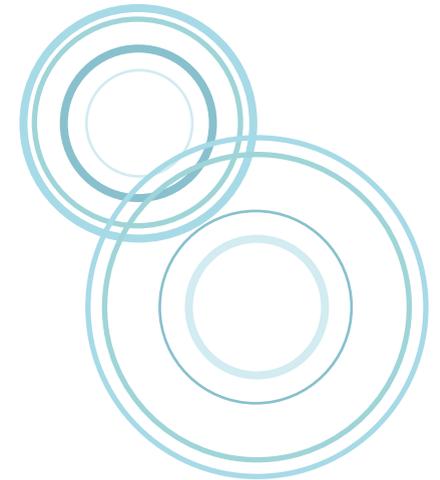
Gemini Session - Networking & Dessert
Red Planet Cafe

9:00 PM

Presented in the Jet Blue Sky Planetarium

Spitz & Ash Enterprises
RSA Cosmos presents "Polaris"

Evening Concludes at 10:30 PM



SECOND MAGNITUDE



THIRD MAGNITUDE



FRIDAY, MAY 15TH

"INTERACTIVE PLANETARIUMS"

7:30 AM

Breakfast
Red Planet Cafe

8:30 AM

Presented in the Cradle of Aviation Museum Planetarium

Evans & Sutherland
Digital Production
MOS Boston
ChromaCove
SCISS
RSA Cosmos

10:00 AM

Presented in the Red Planet Cafe

Songs in the Key of Earth
Patricia Shih

Starlight Productions
Thomas Hamilton
GOTO Inc

11:00 AM

Break with Vendors
2nd Floor

12:00 PM

Lunch
Red Planet Cafe

TALKS

Science on State Street

with Francine Jackson, University of RI Planetarium

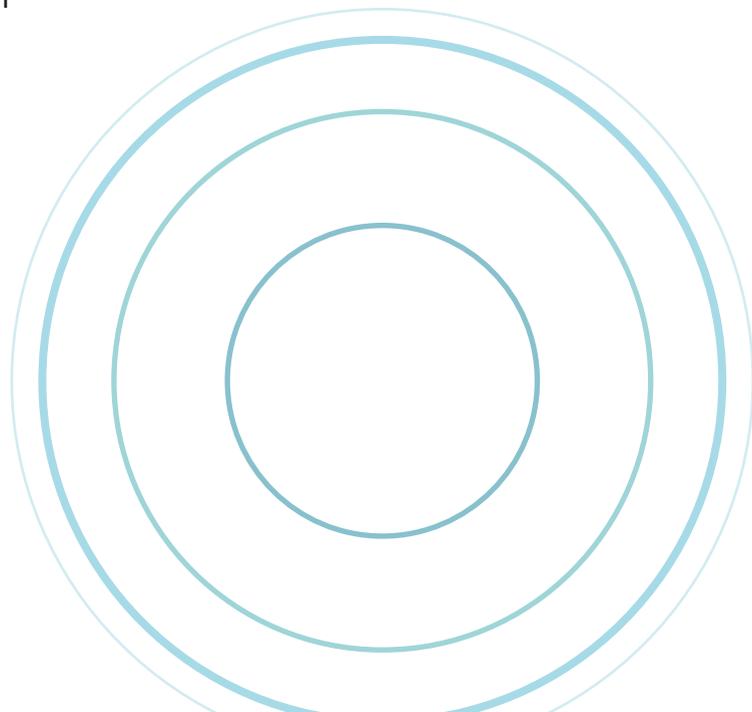
State Street is the main artery through Framingham State University.

On April 25th, the University joins with the Cambridge Science Festival to create a day of hands-on science activities. As this was the first for Framingham, we will look at the result and see how it could be improved over time.

Songs in the Key of Earth: A Multimedia Live Concert

with Patricia Shih, Shih Enterprises, Inc.

This all audience participation, multimedia live concert for families utilizes the dome for special effects. We provide all of the images, pre-recorded narration, etc. The show is about appreciating the uniqueness and fragility of planet Earth and our responsibilities to care for it. The journey starts in outer space and return home.



DELEGATE WORKSHOPS

Art and the Cosmic Connection

with Shira Moskowitz, Maryland Science Center

Workshop Capacity: 20

Cool new images arrive from NASA missions: planets, asteroids, comets and moons. What do they tell us? Using elements of art – shape, line, color, texture, value – make sense of what you see, honing observation skills and inspiring questions. Learners of all ages, K-12, create a beautiful piece of art while learning to recognize the geology on planetary surfaces.

Behavior Management in the Planetarium

with Susan Button, Quarks to Clusters

How can we provide the most effective learning environment in our planetarium classroom? Accomplishing this requires that the planetarium educator be aware of their own philosophy of how students learn and then develop a plan based on knowledge of appropriate strategies for each age group. Together we will explore ways to make our planetariums safe, inspiring and effective learning environments. Our goal will be to develop a resource for new teacher as well as remind ourselves of best practices.

Blueprint to Blastoff: Teaching Engineering in the Planetarium

with Talia Sepersky, Charles Hayden Planetarium, Museum of Science, Boston

While developing a show about spacecraft engineering, the Charles Hayden Planetarium in Boston created three supplementary education modules. Representing different presentation styles and expanding on ideas raised in the show, these modules will be distributed online for free. The workshop will include a demonstration of all three modules, as well as a discussion amongst the attendees for how they can be utilized, both in a planetarium and a classroom setting.

Human Navigation: Celestial Navigation to Modern Satellite Technology

with Dave Stern, Nassau Community College

Review of the history of human navigation. Emphasis will be on current satellite navigation techniques. Presentation will include personal experience with the latest GPS technology.

Is the Red Planet Really That Different Than Our Own?

with Tracy Imperato, Nassau Community College

Participants will engage in an interactive workshop that explores and decodes surficial features and geologic processes on Mars. Various geology based Earth analogs will be utilized alongside real Mars data/images in order to draw complex comparisons between the two planets. This workshop will be a participant driven, hands-on experience using computers/iPads to access content materials.

THURSDAY, MAY 14TH

“BEYOND ASTRONOMY”

2:00 PM

Break with Vendors & Poster Presentation
Atrium

3:00 PM

Presented in the Jet Blue Sky Theater

New Horizons - *Joe Peterson*

NeuroDome - *Dr. Jonathan A.N. Fisher & Kerri Kiker*

Blueprint to Blastoff - *Talia Spersky*

6:15 PM

Dinner
Atrium

7:15 PM

Presented in the Jet Blue Sky Theater

Vendor & Delegate Talks with
SCISS, Lawrence Berz, Seiler, Francine Jackson

8:00 PM

Gemini Session
Atrium

9:00 PM

Presented in the Jet Blue Sky Theater

Vendor & Delegate Talks with
Sky Skan, Kevin Williams & Digital Productions

Evening Concludes at 10:30 PM

SATURDAY, MAY 16TH

"PLANETARIUM AS A CLASSROOM"

9:00 AM

Breakfast

Nassau Community College

10:00 AM

Tom Bruckner

Nassau Community College Planetarium

Workshops

Teaching the NGSS Disciplinary Core Ideas:
Space Systems & Earth Systems in Planetarium Lessons

Patrick McQuillan

Nassau Community College - 306

11:30 AM

Patty Seaton

Nassau Community College Planetarium

Workshops

Art and the Cosmic Connection

Shira Moskowitz

Nassau Community College - 306

Behavioral Management

Susan Button

Nassau Community College - 308

1:00 PM

Closing Remarks & Door Prizes

Nassau Community College - Math Room

VENDOR WORKSHOPS / SHOWCASES

Polaris

RSA Cosmos

Polaris is a playful story combining pedagogy and astonishing 3D effects. Addressing astronomical concepts such as the tilt of the Earth's axis, planetary types and ice in the solar system, the show also introduces key elements of the scientific method.

Writing for Immersive Media

Michael Daut, Evans & Sutherland

If a picture is worth a thousand words, then an immersive image must be worth at least 10,000. When creating a production for the digital full dome medium or any immersive media, how should you approach writing the script? What considerations should be given to the medium? How can the producer, director, and scriptwriter work together to refine the script through production? We will discuss answers to these questions and share specific examples in this workshop.

TALKS

Acceptable Standards of "Correctness" When Teaching

with Stephen Dubois, Whitworth Ferguson Planetarium

Each of us has our own internal gauge of how correctly we pronounce or describe space science topics to our audiences. When is it okay to oversimplify and what are the consequences of being too detailed? This self-assessment will get all of thinking about what we teach, how we teach and why we make the choices we make when fostering understanding in the minds of our public guests.

Dead-Reckoning Astronomy

with Lawrence W. Berz, Francis Malcolm Institute

The joys and sorrows of subzero astronomical telescope observation from the 46th parallel.

Engaging Undergraduate Students in a Planetarium Seminar

with Kevin Williams, SUNY Buffalo State

The opening of our new inflatable planetarium allowed us to offer a planetarium seminar course again after many years. This presentation will focus on lessons learned and examples of creative planetarium programs and activities that were produced by the undergraduate students in the class. Some of their work will be expanded into public programs and activities for the public and school groups.

"My Night Sky": serving Pre-K Students in the Planetarium

with Deb Lawson, SpaceQuest Planetarium at The Children's Museum of Indianapolis
With a licensed pre-school onsite, SpaceQuest Planetarium was asked to develop a "live" show with age appropriate content. The pre-school director mentored the script "drafts" to focus on early childhood learning. After approval, "My Night Sky" premiered winter 2014. This live show is one of 2 options for this age level.

NASA Mars Insight Lander: Seismology on the red Planet

with Patrick McQuillan, IRIS

In 2016 NASA is sending a lander to Mars to learn about the internal structure of the planet. A seismometer will be deployed on the surface to detect surface impacts and internal quakes. IRIS is developing free public display products to highlight the mission and display live data from the mission – marsquake.

Planetarium Scholarships – What It Is, How to Cash In

with Thomas Wm. Hamilton, Hamilton Planetarium Scholarship Fund

Describes the now 4 year old fund providing scholarships to encourage talented students to enter the planetarium field as their career choice.

FRIDAY, MAY 15TH

"INTERACTIVE PLANETARIUMS"

1:15 PM

Presented in the Nassau Community College Planetarium

Ash Enterprises

Spitz, Inc

Joel Lamb

Workshops

Is the Red Planet Really That Different From Our Own?

Tracy Imperato

Nassau Community College - 306

2:45 PM

Presented in the Nassau Community College Planetarium

Ash Enterprises

Spitz, Inc

Joel Lamb

Workshops

GPS

Dave Stern

Nassau Community College - 306

4:15 PM

Return to Hotel

6:30 - 10:00 PM

Presented in the Cradle of Aviation Museum Atrium

Margaret Noble Address

Banquet Dinner