#SCIENCEISEVERYWHERE

MORE INFO AT MAINESCIENCEFESTIVAL.ORG

MAINE SCIENCE FESTIVAL

MARCH 20TH – 22ND
BANGOR, MAINE
FRIDAY, MARCH 20

Cg  CALEB CHARLAND ART EXHIBIT
3:00pm - 7:00pm // Central Gallery // FREE
In collaboration with the Maine Science Festival, Central Gallery welcomes artist Caleb Charland for a three week exhibit carefully selected works. All images are created in-camera, on a flatbed scanner, or in the darkroom. No content is created or added digitally. Learn more about Charland and view his art up close in Central Gallery’s multi-use arts venue.
SUGGESTED AUDIENCE: All ages

Tn  TEEN TECH NIGHT
4:00pm - 8:00pm // MDM // FREE
Teen Tech Night is an evening designed for attendees to learn, share and collaborate. Maine Discovery Museum and the Foster Center for Student Innovation have come together to introduce information technologies to help learn how to identify a problem and work to create a solution to that problem through different Innovation Engineering exercises and prototyping.
SUGGESTED AUDIENCE: Middle school and high school aged students only.

St  SCIENCE ON TAP - Sex, Drugs & Rock n’ Roll
7:00pm // The Big Easy // FREE
“Sex”
Tony Sohns will provide insight on the fascinating world of insect reproduction.
SUGGESTED AUDIENCE: 21 years and older.

St  SCIENCE ON TAP - Sex, Drugs & Rock n’ Roll
8:00pm // The Big Easy // FREE
“Drugs”
Anthropologist Cindy Isenhour will lead us on a journey exploring the historical and cultural significance of hallucinogenic plants.
SUGGESTED AUDIENCE: 21 years and older.

Dy  END DAYS
8:00pm - 8:00pm // PTC // Ticket Required
Sixteen-year-old Rachel Stein is having a bad year. Her father hasn’t changed out of his pajamas since 9/11, and her mother’s new religious fervor means dinner is often late. Her new neighbor, a teenage Elvis impersonator, has fallen for her hard. Plus, the Apocalypse is coming Wednesday. Her only hope is that Stephen Hawking will save them all. Finding the intersection between science, religion and suburbia, this fresh new work is both poignantly redemptive and hilarious. A MAINE PREMIERE! Proudly presented in collaboration with the Maine Science Festival. Tickets are available through Penobscot Theatre.
SUGGESTED AUDIENCE: Adult language. 14 years and older.

St  SCIENCE ON TAP - Sex, Drugs & Rock n’ Roll
9:00pm // The Big Easy // FREE
“Rock & Roll”
How do artists synthesize the sounds we hear in music today? Scott Loiselle New England School of Communication will demonstrate audio engineering and show some tricks of the trade.
SUGGESTED AUDIENCE: 21 years and older.
Sf  STATE SCIENCE FAIR
8:30am - 12:30pm // Cross Center // FREE
Join esteemed judges—scientists, engineers, mathematicians, teachers, and other STEM professionals—in viewing Maine high school students’ poster presentations of their original research. Presented in collaboration with The Jackson Laboratories & The Maine Math & Science Alliance.
SUGGESTED AUDIENCE: All ages

Es  EXPLORATION STATION
9:00am - 5:00pm // Cross Center // FREE
Roll-up your sleeves and learn through various hands-on demonstrations organized and presented by: 4H, Hurricane Island, Efficiency Maine, Wireless Sensor Lab, Unity College, Downeast Institute, University of New England, Maine Maritime Academy, & Maine Sea Grant. Make sure to stop in and visit each booth! Sponsored by UMaine Cooperative Extension/4H Foundation.
SUGGESTED AUDIENCE: All ages.

Hw  HACKAWAY: Session 1
9:00am - 5:00pm // Cross Center // FREE
Join members of the Maine Hackers Club and Hacktivate and learn how to turn your ideas into realities. Demonstrations will include 3D printing, robotics, electronics, and digital currencies.
SUGGESTED AUDIENCE: All ages.

Ci  CRIME SCENE INVESTIGATION
9:00am - 5:00pm // Cross Center // FREE
Walk through a simulated crime scene, discover evidence, and develop a case theory. What crimes were committed, who are the victims, and who are the alleged defendants? What information do you need to get search and arrest warrants? Elementary, dear Watson! Presented and sponsored by Husson University.
SUGGESTED AUDIENCE: All ages.

Ve  VEMI LAB: Session 1
9:00am - 5:00pm // Cross Center // FREE

Pr  PENOBSCOT RIVER RESEARCH
9:30am // Cross Center // FREE
Have you ever wondered about the creatures that live in the Penobscot River? The Penobscot River Restoration Project is an effort to restore 11 species of sea-run fish to the Penobscot River while maintaining hydropower, that has received international attention.
SUGGESTED AUDIENCE: All ages.

Hh  HABITAT FOR HUMANITY
10:00am - 4:00pm // WBRC // FREE
If you build it...will it stand? Build a tower that can support a tennis ball at least 18 inches off the ground while withstanding the wind from a fan. Fun and instructive for all ages, this hands-on workshop will explore the science of structural engineering. Hosted by Habitat for Humanity.
SUGGESTED AUDIENCE: All ages.

Ns  ILLUSTRATING NATURAL SCIENCE
10:30am // UMMA // FREE
Acclaimed illustrator Chuck Carter will lead a workshop on how to bring nature to vivid life.
SUGGESTED AUDIENCE: All ages.

Cm  PANEL: CLIMATE CHANGE IN ME
10:30am // Cross Center // FREE
Learn how the change in our global climate has impacted Maine in ways large and small. A diverse panel of scientists will discuss some of these changes and how we can mitigate them.
SUGGESTED AUDIENCE: All ages.

Ae  PANEL: ALTERNATIVE ENERGY
11:00am // Cross Center // FREE
Interested in learning about alternative ways to heat and power your home? This panel discussion is for you. Our experts will talk about some of the different types of energy sources you can install - what they do, how they work, and how you can switch off of fossil fuels.
SUGGESTED AUDIENCE: All ages.

Ms  MAD SCIENCE (Demo)
11:00am // MDM // FREE
Get ready for some sizzlin’ excitement! Join us for SAFE and scientific fun with fire and ice! In this show, children will explore the 3 states of matter and learn about the amazing properties of fire and combustion. After some sizzling chemical reactions heat things up, we will cool off with spectacular demonstrations involving dry ice!
SUGGESTED AUDIENCE: Elementary and Middle School Children.

Ms  MAD SCIENCE (Hands On)
12:00pm - 2:00pm // MDM // FREE
Let’s take a bold look at power generation, renewable resources, and the Law of Conservation of Energy. Get hands-on to transform mechanical energy to sound. Sun energy to electricity. And wind energy into light!
SUGGESTED AUDIENCE: Elementary and Middle School Children.
**SATURDAY, MARCH 21**

**Gt**  **GALLERY TALK**  
12:00pm - 1:00pm // UMMA // FREE  
FREE Gallery Talk! Nathaniel T. Wheelwright, Bass Professor of Natural Sciences, Bowdoin College will present Resplendence and the Empty Forest. Professor Wheelwright will discuss his work and how it relates to Deborah Cornell and Barbara Putnam's exhibit Global Change: The Dance of Contingencies.  
SUGGESTED AUDIENCE: High School and older

**Cg**  **CALEB CHARLAND ART EXHIBIT**  
12:00pm - 7:00pm // Central Gallery // FREE  
In collaboration with the Maine Science Festival, Central Gallery welcomes artist Caleb Charland for a three week exhibit carefully selected works. All images are created in-camera, on a flatbed scanner, or in the darkroom. No content is created or added digitally. Learn more about Charland and view his art up close in Central Gallery's multi-use arts venue.  
SUGGESTED AUDIENCE: All ages

**Tt**  **TECH TODAY: DRONES & ETHICS**  
12:15pm - 1:15pm // BPL // FREE  
We have the technology, but how should we use it? This program includes a demonstration of drones as a jumping-off point for discussion around the ethics technological application.  
SUGGESTED AUDIENCE: High School and older

**Ma**  **MATH IN ACTION: Session 1**  
12:30pm - 1:30pm // Cross Center // FREE  
Interactively explore simulation models from biology, physics, and other fields to learn how infectious diseases, invasive species, and ideas can spread.  
SUGGESTED AUDIENCE: High School students.

**Cc**  **THE SCIENCE OF ART**  
1:45pm // Cross Center // FREE  
Growing up in rural Maine, Caleb Charland spent much of his childhood helping his father remodel their family home. These experiences instilled an awareness of the potential for the creative use of materials, and the ability to fabricate his visions. Now an internationally renowned photographer, Charland will share his inspiration and examples of his process.  
SUGGESTED AUDIENCE: All ages.

**Sb**  **SCIENCE BOUND: College to Career**  
1:00pm // Cross Center // FREE  
If you're headed straight for college and considering a career in science, this panel discussion is for you! Hear from current college students about why they wanted to study science/engineering in college, what they considered in selecting their schools, and what it's like to study science at the post-secondary level.  
SUGGESTED AUDIENCE: Middle & High School.

**Sb**  **SCIENCE BOUND: For Parents**  
1:00pm // Cross Center // FREE  
While your middle school or high school aged student attends Science Bound: College to Career Path (Meeting Room 1&2), take this time to talk with college admissions officers in the next room!  
SUGGESTED AUDIENCE: Parents & guardians of middle school and high school aged students.

**Br**  **SCIENCE OF BREWING**  
1:00pm - 5:00pm // CSF // FREE  
Expert brewer Zeth Lundy will lead a workshop on Brew in a Bag, the fastest, most economical option for home brewers. Food scientist Jason Bolton will team up with Zeth and explain the science of the brewing process.  
SUGGESTED AUDIENCE: 21 years and older.

**Hs**  **THE HISTORY OF SCIENCE**  
2:00pm - 3:00pm // BPL // FREE  
Science is not static...it’s a process, and “facts” often change with deeper understanding! Learn about the history of two very important discoveries that have withstood the tests of time and verification: Darwin’s ideas on natural selection and Pasteur & Ivanovsky’s work in virology.  
SUGGESTED AUDIENCE: All ages.

**As**  **ARTISTS & SCIENTISTS: Common Language**  
2:00pm - 3:00pm // UMMA // FREE  
Join our panelists, made up of artists and scientists (some of whom have worked together) as they talk about what it was like to bridge the gap between art and science, and learned how to represent science in an all-new way.  
SUGGESTED AUDIENCE: All ages.
SATURDAY, MARCH 21

Ed - SCIENCE CENTERS: Where Economic Development & Science Meet
3:00pm - 4:00pm // Blaze // FREE
What is the economic impact of Maine's scientific research? This discussion will focus on the value of basic research projects and will include examples of how science has catalyzed Maine businesses. Blaze is located at 18 Broad Street in downtown Bangor.

SUGGESTED AUDIENCE: All ages

CI - SCIENCE IN CHILDREN'S LIT
3:00pm - 4:00pm // Rock & Art // FREE
Hear how science has served as literary and artistic inspiration for acclaimed authors/illustrators Kim Riddley and Rebekah Raye (The Secret Pool) and Fran Hodgkins and Mike Taylor (The Secret Galaxy). The Rock & Art Shop are located at 36 Central Street in downtown Bangor.

SUGGESTED AUDIENCE: All ages.

HI - HEADLINER: Tony DeRose of Pixar Studios
7:30pm // Cross Center // Ticket Required
Come hear Academy Award winning Pixar scientist Tony DeRose discuss the magic on the screen and the science behind the scenes! Featuring a series of Pixar shorts, DeRose will give the audience unique insight into the science that makes it all possible, from physics and fluid dynamics to computer science and engineering. A Q&A session will follow the presentation! Space is limited and tickets are required.

Tickets are $15 for adults, $10 for students, and seating will be reserved.

SUGGESTED AUDIENCE: Ages 10 and older.

Dy - END DAYS
8:00pm // PTC // Ticket Required
Sixteen-year-old Rachel Stein is having a bad year. Her father hasn't changed out of his pajamas since 9/11, and her mother's new religious fervor means dinner is often late. Her new neighbor, a teenage Elvis impersonator, has fallen for her hard. Plus, the Apocalypse is coming Wednesday. Her only hope is that Stephen Hawking will save them all. Finding the intersection between science, religion and suburbia, this fresh new work is both poignantly redemptive and hilarious. A MAINE PREMIERE! Proudly presented in collaboration with the Maine Science Festival. Tickets are available through Penobscot Theatre.

SUGGESTED AUDIENCE: Adult language. 14 years and older.

VENUE INFO

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<tr>
<th>Venue</th>
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<tr>
<td>BPL</td>
<td>Bangor Public Library 145 Harlow St.</td>
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<td>CG</td>
<td>Central Gallery       89 Central St.</td>
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<td>Cross</td>
<td>Cross Insurance Center 491 Main St.</td>
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<td>CSF</td>
<td>Central Street Farmhouse 30 Central St.</td>
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<td>JC</td>
<td>Juice Cellar          76 Main St.</td>
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<td>MDM</td>
<td>Maine Discovery Museum 74 Main St.</td>
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<td>PTC</td>
<td>Penobscot Theatre     131 Main St.</td>
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<td>R&amp;A</td>
<td>The Rock and Art Shop 36 Central St.</td>
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<td>TBE</td>
<td>The Big Easy          24 Broad St.</td>
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<tr>
<td>UMMA</td>
<td>Univ. Maine Museum of Art 40 Harlow St.</td>
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## PERIODIC TABLE OF EVENTS: SATURDAY, MARCH 21ST, 2015

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### View our complete schedule at mainesciencefestival.org

**Maine Science Festival**
SUNDAY, MARCH 22

Cs  COOL SCIENCE
11:00am - 3:00pm // Cross Center // FREE
Learn by doing through various hands-on demonstrations organized and presented by Girl Scouts of Maine, Challenger Learning Center, Maine Geography Alliance, High Touch Courses, Emera Maine, SeaNet, Maine Mathematics and Science Alliance, Maine Robotics, Robotics Institute of Maine. Make sure to stop in and visit each booth! Sponsored by Emera Maine and EPSCoR.

SUGGESTED AUDIENCE: All ages.

Hw  HACKAWAY: Session 2
11:00am - 3:00pm // Cross Center // FREE
Join members of the Maine Hackers Club and Hacktivate and learn how to turn your ideas into realities. Demonstrations will include 3D printing, robotics, electronics, and digital currencies.

SUGGESTED AUDIENCE: Middle School and older.

CI  CRIME SCENE INVESTIGATION
11:00am - 3:00pm // Cross Center // FREE
Walk through a simulated crime scene, discover evidence, and develop a case theory. What crimes were committed, who are the victims, and who are the alleged defendants? What information do you need to get search and arrest warrants? Elementary, dear Watson! Presented and sponsored by Husson University.

SUGGESTED AUDIENCE: All ages.

St  STRING THEORY REDUX
11:00am // WBRC // FREE
The Bangor Symphony Orchestra string quartet will team with a physicist to unveil the science of stringed instruments. This program will include works ranging from fiddle tunes to classical and contemporary arrangements.

SUGGESTED AUDIENCE: All ages.

Ve  VEMI LAB
9:00am - 5:00pm // Cross Center // FREE

Cz  PANEL: CITIZEN SCIENCE
11:00am - 12:45pm // Cross Center // FREE
You are a scientist! People of all ages and experience can support scientific progress through ongoing Citizen Science initiatives. Learn how citizen science has been happening in Maine and how you can make a difference by collecting data on flora, fauna, clouds, invasive species, and more!

SUGGESTED AUDIENCE: All ages.

SUNDAY, MARCH 22

Sa  PANEL: SCIENCE OF AGING
11:00am // Cross Center // FREE
Aging ain’t easy but it’s better than the alternative! Join a panel of experts to learn more about their research in aging; the Learning by Living research project, and research about technology innovation that can help older adults.

SUGGESTED AUDIENCE: All ages.

PI  PROJECT LOGIN
11:00am - 3:00pm // Cross Center // FREE
It’s a Code Lab! Play the newest games from Code.org. Coaches will be available to help, or you can just do-it-yourself.

SUGGESTED AUDIENCE: Middle School and High School.

Or  PANEL: OCEAN RESEARCH
12:00pm // Cross Center // FREE
Ocean research in Maine goes far beyond lobsters, from the microscopic to realms larger than life. Hear from a panel of scientists about the depth of oceanic research happening in Vacationland.

SUGGESTED AUDIENCE: All ages.

Cg  CALEB CHARLAND ART EXHIBIT
11:00am - 4:00pm // Central Gallery // FREE
In collaboration with the Maine Science Festival, Central Gallery welcomes artist Caleb Charland for a three week exhibit carefully selected works. All images are created in-camera, on a flatbed scanner, or in the darkroom. No content is created or added digitally. Learn more about Charland and view his art up close in Central Gallery’s multi-use arts venue.

SUGGESTED AUDIENCE: All ages.

Ia  INTERSECTIONS APP
12:00pm - 5:00pm // MDM // FREE
Join the Maine Writing Project and the Maine Discovery Museum for the historic unveiling of a new web-based app, which will allow writers of all experience levels to learn more about and engage with the science all around them. Through this map-based mobile app, writers will be able to learn about the science of a place and then to respond through a series of interactive writing prompts. Find the table at Maine Discovery Museum during business hours. App location is at the Penobscot River Waterfront area.

SUGGESTED AUDIENCE: All ages.

MAINE SCIENCE FESTIVAL 2015 - DAY 3
SUNDAY, MARCH 22

**Sb  SCIENCE BOUND: The Path Less Traveled**  
12:15pm - 1:30pm // Cross Center // FREE  
The path to a rewarding career in science can lead in unexpected directions! This panel discussion will feature current college students who have followed nontraditional paths in their scientific pursuits. Hear about their experience.  
**SUGGESTED AUDIENCE:** High School students.

**Cw  SAY CHEESE!**  
1:00pm // The Juice Cellar // FREE  
Drop in for a cheese making workshop! You can pre-register for this event on our website. Space is limited. The Juice Cellar is located at 76 Main Street in Downtown Bangor.  
**SUGGESTED AUDIENCE:** All ages.

**Tc  TEEN SCIENCE CAFE**  
1:00pm // WBRC // FREE  
Drop by for an informal, interactive program involving teens and leading experts on the science and technology changing our world.  
**SUGGESTED AUDIENCE:** Teenagers.

**Ps  POETRY SPEAKS TO SCIENCE**  
1:00pm // Rock & Art Shop // FREE  
Listen and reflect with this unique poetry reading addressing scientific themes and concerns. A brief discussion of how poetry and science have interacted will follow.  
**SUGGESTED AUDIENCE:** Teenagers.

**Sw  TELL SCIENCE FROM THE TREES**  
1:30pm - 2:45pm // Cross Center // FREE  
It's the science of the woods! Learn about the different types of science done in Maine's forests and by Maine foresters. There's a lot more to forest research than studying trees. Join our panel of forest researchers as they explain what it is really like to study forests.  
**SUGGESTED AUDIENCE:** All ages.

**Foster Center: Hands on Innovation**  
2:00pm // Cross Center // FREE  
Join the Foster Center crew for a hands-on exploration of how to innovate!  

**Mp  MINING THE PAST**  
1:30pm - 2:45pm // Cross Center // FREE  
Find out what you can learn from what's left behind! Take part in this lively panel discussion and bring your mummy. Forensic scientists and anthropologists will uncover what remains can tell us about the past.  
**SUGGESTED AUDIENCE:** All ages.

**Ge  5-MINUTE GENIUS**  
3:00pm - 5:00pm // Cross Center // FREE  
Meet the rock stars of Maine's scientific sector as they explain their research in five minutes or less! You will feel like a genius in no time! Want more? Stick around for Q&A and a reception after this closing event.  
**SUGGESTED AUDIENCE:** All ages.

**Sf  SCIENCE AND FAITH**  
5:00pm // BOH // FREE  
Explore the intersection of science and religion through a robust discussion of Penobscot Theatre Company's production of End Days, by Deborah Zoe Laufer. The panel will feature esteemed representatives of the medical, scientific, academic, and health communities, along with the creative team.  
**SUGGESTED AUDIENCE:** All ages.

**Dy  END DAYS**  
3:00pm // BOH // Ticket Required  
Sixteen-year-old Rachel Stein is having a bad year. Her father hasn’t changed out of his pajamas since 9/11, and her mother’s new religious fervor means dinner is often late. Her new neighbor, a teenage Elvis impersonator, has fallen for her hard. Plus, the Apocalypse is coming Wednesday. Her only hope is that Stephen Hawking will save them all. Finding the intersection between science, religion and suburbia, this fresh new work is both poignantly redemptive and hilarious. A MAINE PREMIERE! Proudly presented in collaboration with the Maine Science Festival. Tickets are available through Penobscot Theatre.  
**SUGGESTED AUDIENCE:** Adult language. 14 years and older.
#SCIENCEISEVERYWHERE
MORE INFO AT MAINESCIENCEFESTIVAL.ORG