

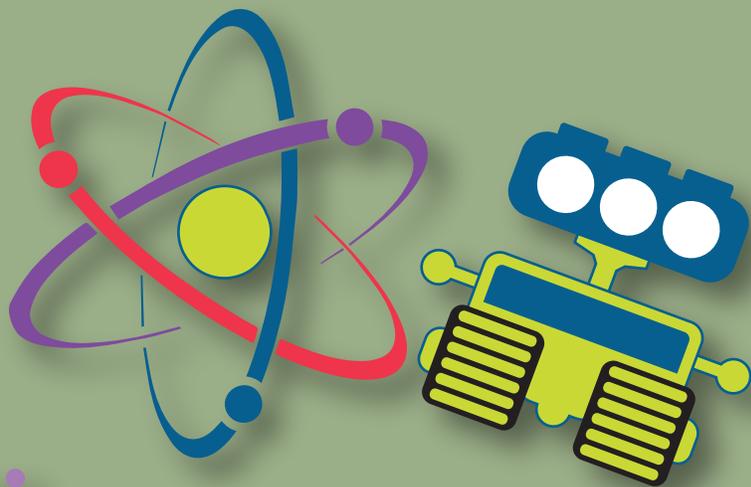
LOS ALAMOS
SCIENCE

20/20: EYES ON THE FUTURE

EVENT
PROGRAM
JULY 7-12, 2020



GOES VIRTUAL



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LosAlamosScienceFest.com

13TH ANNUAL LOS ALAMOS SCIENCEFEST

GOES VIRTUAL

This year, Los Alamos ScienceFest is coming to you virtually! We're expanding the experience to offer the same great lectures, discussions, live demonstrations and engaging Science, Technology, Engineering, Art and Math (STEAM) activities. Join this year's Los Alamos ScienceFest 20/20: Eyes on the Future from home!

Two Ways to Join as an Attendee

Via the Mobile App - Download the Whova app for free, sign up for a free account. You'll receive an access code and link by email for you to login via the Desktop Web App directly, if you later choose to use that platform instead of the mobile app.

Via the Desktop Web App - Want to login from your computer? Plan ahead and register for ScienceFest here. Then on Tuesday, July 7 (ScienceFest Kickoff), login to the ScienceFest Web App using the same email address.

*Please keep in mind that it may take up to 24 hours before you have access to the Desktop Web App after registering with Eventbrite.



Post your inspiring ScienceFest photos to Facebook, Twitter, Instagram and Snapchat using our hashtag **#LosAlamosScienceFest2020**

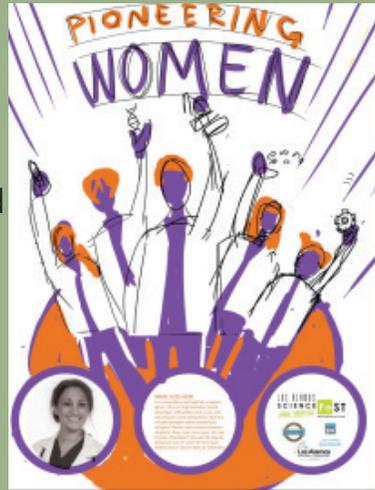
Visit our Virtual Info Booth for your chance to win some great prizes!

Whova

LOOK

Pioneering Women in Los Alamos: An Historical Poster Trail

In honor of the centennial anniversary of women's right to vote, Los Alamos MainStreet, Los Alamos Chamber of Commerce, the Los Alamos Historical Society, LANL and Triad, LLC and Del Norte Credit Union are debuting posters July 7-12 featuring women in Los Alamos who have been pioneers in advancing their respective fields, from the Manhattan Project days, to today. Local businesses and organizations around Los Alamos County will be displaying these posters throughout the summer. So, get out, explore, look for the posters highlighting these amazing women, and you'll also have a chance to solve a puzzle (please refer to our map as a starting point)! A special thanks goes to recent Los Alamos High School graduate Emily Holmes, who put in countless hours to build profiles for these women as part of her Girl Scout Gold Award.



WOMEN OF PROJECT Y

In honor of Women's History Month, we remember the hundreds of women who worked as part of the Manhattan Project at Los Alamos to develop the world's first nuclear weapons, which helped end World War II. Their pictures and stories are part of the private collection of the National Security Research Center, the Lab's classified library.



EYE on the Prize! A BreakOUT Box Scavenger Hunt

A breakout box is a box secured with a six lock hasp. Teams need to solve clues in order to get the combinations for each lock in order to open the hasp and unlock the box. Clues can be solved in any order and can vary greatly in difficulty. A smaller box can also be secured with a single lock in order to reveal the clue sheet for a large box. Participate virtually, or in-person, and uncover clues that lead you around Los Alamos. An immersive, learning platform with different boxes for different audiences and skill levels. Winners will be entered into a raffle for some cool prizes! More details on LosAlamosScienceFest.com

In honor of Women's History Month earlier this year, the Lab also remembered the hundreds of women who worked as part of the Manhattan Project at Los Alamos to develop the world's first nuclear weapons, which helped end World War II. Their pictures and stories are part of the private collection of the National Security Research Center, the Lab's classified library.



LOOK FOR LIVE WITH THE CEO OF IMPOSSIBLE FOODS

Pat Brown

TUESDAY • JULY 7 • 7:00 PM



Pat Brown, CEO & Founder of Impossible Foods, a company at the forefront of making nutritious, delicious meat and dairy products from plants to satisfy meat lovers, addresses the environmental impact of animal farming. Ask questions live, or submit in advance to lauren@losalamos.org

Register at

LosAlamosScienceFest.com

IMPOSSIBLE™

LOOK FOR LIVE WITH MISS AMERICA 2020, Miss Camille Schrier

Virtual “Blood Bubbles”

DEMONSTRATION AND CLASSROOM CHAT

SATURDAY • JULY 11 • 10:00 AM

Miss Camille Schrier, a STEM advocate who holds biochemistry and systems biology degrees, will engage with students about pH, the blood, and why we breathe in this fun demonstration. Have a chance to ask questions live, or submit in advance to lauren@losalamos.org.

Register at

LosAlamosScienceFest.com



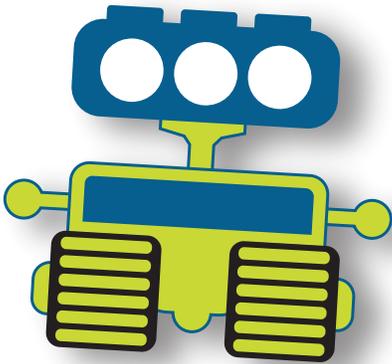
Mad Scientist



LOS ALAMOS SCIENCE FeST 2020 GOES VIRTUAL EVENT SCHEDULE

20/20: EYES ON THE FUTURE

All events are free
schedule subject to change



TUESDAY 7.7

5:00 PM
Tuesdays *Not* at the Pond: A Performance with Auto Electric Fun and Classic Rock-n-Roll
Visit CreativeLosAlamos.com

6:00 PM
RoboRAVE Robot Challenges
Play online, code, and compete with others around the world on a wide range of monthly robot challenges - free during ScienceFest week!

7:00 PM
A Conversation with Pat Brown, CEO & Founder, Impossible Foods
Impossible Foods is at the forefront of making nutritious, delicious meat and dairy products from plants to satisfy meat lovers. Brown will address the environmental impact of animal farming in this interactive session.



WEDNESDAY 7.8

12:00 PM
Brownbag Lunch Panel: DNA Simulation
Join LANL scientist Dr. Karissa Sanbonmatsu, who conducts research on DNA simulation and gene-mapping. This event should be engaging for all ages!

6:00 PM
The Future of Energy
Join Explora as we investigate humanity's greatest resource: electrical energy! We'll take a look at electrical phenomena with shocks, sparks, and plasma balls! We'll then explore how electricity gets from power plants to your home, and how we manage energy for the future.

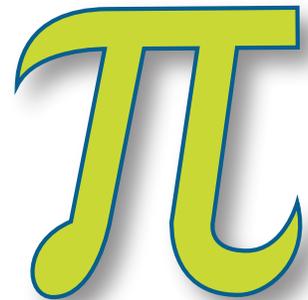
7:00 PM
The Trinity Test: A Live Lecture with Lab Historian Alan Carr
Join Los Alamos National Laboratory Historian Alan Carr as he reflects on the 75th Anniversary of the Trinity Test. Discover the stories and challenges of Project Y and how science at Los Alamos shaped our world.

THURSDAY 7.9

12:00 PM
Future of Cybersecurity Panel Discussion
Hear from several cybersecurity experts based in Los Alamos, and what the future holds in the field.

5:30 PM
Space Veggies: How quantum dots help grow vegetables on Earth and in Space. Dr. Matt Bergren, the Chief Product Officer at UbiQD, Inc., explores how nanotechnology can improve growing vegetables on Earth and in Space.

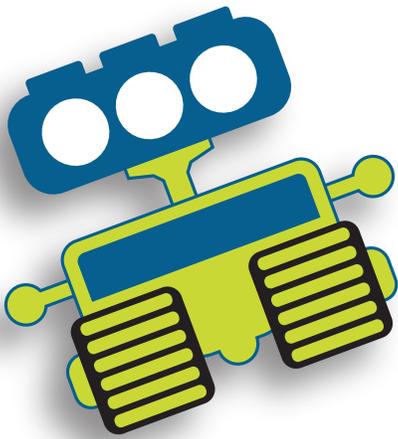
6:30 PM
From Trinity to Today: How Los Alamos National Laboratory employees innovate and protect our nation
Thom Mason, the Director of Los Alamos National Laboratory, explores the Laboratory's innovations and projects, the ability of tech transfer to bring discoveries into the wider world, global STEM-related challenges and opportunities, and emerging areas for the Laboratory and its mission.



Tag Los Alamos ScienceFest in photos of you engaging in Discovery Day!

#LosAlamosScienceFest2020

Visit the ScienceFest Virtual Info Booth for your chance to win some great prizes!



FRIDAY 7.10

11:00 AM – 12:30 PM

Virtual Tour at UNM-LA

The virtual tour of UNM-Los Alamos will examine the EMS classroom and simulation lab, including the Ambulance simulator and demonstrations using the programmable mannequins. A second tour will include the welding laboratory, with demonstrations using the plasma cutter and welding equipment.

6:00 PM

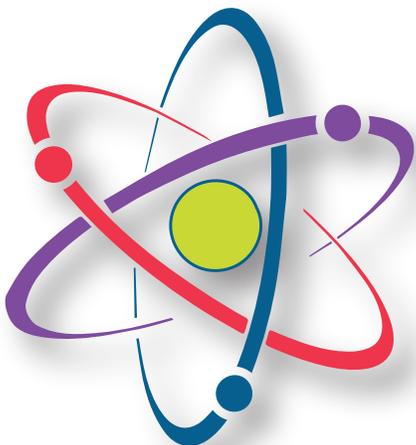
Friday Night Summer Concert Series: Live with Austin Van

Get your dancing shoes ready, it's Country night to celebrate Los Alamos ScienceFest week!

7:00 PM

The Future of Manned Space Exploration

Join Rick Wallace for a discussion of current plans and studies related to commercial space travel, the status of NASA's proposed Moon orbital space station, the Artemis moon landing program, and current plans for colonizing Mars.



SATURDAY 7.11 DISCOVERY DAY 10 AM - 3 PM

Visit the virtual exhibitor booths to learn about various organizations engaging in Science, Technology, Engineering, Art and Math (STEAM) fields, recorded videos and live discussions, ideas for activities to try at home, and fun raffle prizes and giveaways!

Segments that will go LIVE are marked, but is not inclusive of all the virtual booth content. Login to the mobile event app, Whova, or via the Desktop Whova App to view all virtual booths!

10:00 AM

LIVE with Miss America 2020, Miss Camille Schrier – A Virtual “Blood Bubbles” Demonstration and Classroom Chat

Miss Camille Schrier, a STEM advocate who holds biochemistry and systems biology degrees, will engage with students about pH, the blood, and why we breathe in this fun demonstration. Have a chance to ask questions!

10:00 AM

LIVE with TechSource

11:30 AM

LIVE with the Superintendent of Los Alamos Public Schools

11:30 AM

LIVE with UNM-LA Computer Science Faculty Dr. Joan Lucas. Dr. Lucas will demonstrate, “Machine Learning and Neural Networks”.

12:00 NOON

LIVE with the Third Annual Electric Vehicle Show

Brought to you by the Department of Public Utilities and PEEC, interact live with the owners of several different types of electric vehicles for a virtual tour of their cars!

1:00 PM LIVE with a Docent from the National Museum of Nuclear Science & History

1:30 – 2:00 PM

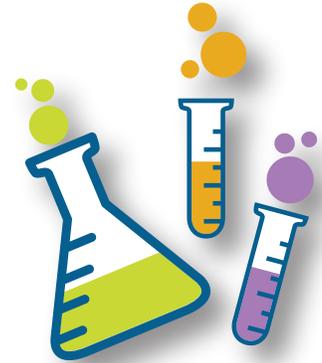
LIVE with Los Alamos Public Schools - “Where in the World is Topper?”

Receive video clues from around the world that examine biomes and ecosystems in the different regions, which includes plants and animals! Be entered into a drawing for fun prizes!

2:00 PM

LIVE with PBS Science Café: Animal Espionage on the Pajarito Plateau

Camera and drone technologies are allowing scientists to watch animals more closely than ever before, without disturbing them. Capturing everything from the unexpected to the comical, these technologies are giving wildlife managers insights that could ultimately help them fight extinction and habit loss.



Sunday 7.12

2:00 PM

Virtual Screening of “Just Eat It: A Food Waste Story”

Presented by Los Alamos County Environmental Services Department, view this 74-min extended version documentary, where filmmakers and food lovers Jen and Grant dive into the issue of waste from farm, through retail, all the way to the back of their own fridge.

Around 8:30 PM (dusk)

Movie After Dark: Blast From the Past

Join us outdoors at Bathtub Row Brewing Co-op for this fun, romantic comedy featuring Brendan Fraser and Alicia Silverstone about a man who lived his entire life in confinement in a fallout shelter and suddenly emerges when he's sent on a dangerous restocking mission. Limited seating, so arrive early!

LOOK FOR THE LOS ALAMOS SCIENCE FeST

2020
20/20: EYES ON THE FUTURE

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20x20 ART CHALLENGE EXHIBITS!

Location: Los Alamos Creative District, near Fuller Lodge

The Los Alamos Creative District, Fuller Lodge Art Center, and the Los Alamos Arts Council are sponsoring an art competition designed to inspire and share creativity in the Los Alamos downtown area during ScienceFest. Twenty artists were given a 20x20 inch panel on which they created something that highlights the 2020 ScienceFest Theme - 20/20: Eyes on the Future. All submissions will be on display outdoors during ScienceFest week July 7-12 along the sidewalks in the Creative District, near Fuller Lodge. Judging will take place on July 7, with awards and



prizes given to the top choices in each category. Come take a look at what our local creatives have done! Post your favorites using the hashtag **#LosAlamosScienceFest2020**



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ORGANIZERS

Los Alamos MainStreet and Los Alamos Creative District