

GENTLE.NEWS

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"Every now and then I like to do as I'm told, just to confuse people."

— Tamora Pierce

America Invests Millions to Unlock Secrets of Quantum Science

America is making a big push in a thrilling area of science called quantum research. The National Science Foundation is giving \$290 million to eight special research institutes. This money will help scientists explore one of the most exciting frontiers in all of science.

Quantum science studies the tiny building blocks of nature. These building blocks behave in surprising and wonderful ways. Scientists believe quantum discoveries could change the world in amazing ways.

Eight institutes across the country will share this generous funding. Three of them are brand new. The other five have been doing great work since 2020 and will keep going strong. Each institute will receive between \$28 and \$37 million over five years.

The scientists have already made wonderful progress. They are finding new ways to build powerful quantum computers. They are also creating special sensors that may one day help doctors find illnesses much earlier. That means better health for many people.

Scientists, universities, and technology companies are all working together on this effort. The National Science Foundation has supported this kind of research for over 40 years. Leaders say this new investment will help all Americans and push human knowledge even further forward. It is a very exciting time for science.

A Special Bird Refuge Celebrates America's Birthday

A beautiful wildlife refuge in Utah had a wonderful celebration. Millions of birds fly through Bear River Migratory Bird Refuge every year. Some stay to build nests and raise their young ones there.

In April, colorful flags visited the refuge as part of America's 250th birthday celebration. The flags traveled to special places across the country. About 500 happy people came to welcome them that day.

The birds put on quite a show too. Many were dressed in their brightest spring feathers. It was a beautiful sight for everyone who came to visit.

This refuge has a wonderful history. Back in the 1920s, caring people worked hard to protect the birds and marshes there. Congress listened and created the refuge in 1928. It has been a safe home for birds ever since.

Today, every season brings something amazing to see. In winter, bald eagles soar through the sky. In spring and summer, thousands of colorful birds fill the wetlands. One refuge leader said it perfectly. He called Bear River a place of beauty, history, and sanctuary. It restores the soul and connects us all to nature.

Fish Are Coming Back to Northeast Ocean Waters

Something exciting is happening in the ocean. Atlantic mackerel are coming back in big numbers. Fishermen up and down the East Coast are noticing the change.

Atlantic mackerel are silvery, fast-swimming fish. Every year, they travel north in spring and south in fall. This seasonal trip is called a migration. Scientists have tracked this pattern for many years.

Recently, something new and interesting happened. The ocean waters along the Northeast coast became cooler. This shift brought mackerel back to places they had not been seen in a long time. Fishermen were surprised and delighted by what they found.

Other sea creatures also showed up in surprising numbers. White marlin, squid, and sand lance were spotted in unexpected spots. Striped bass and bluefish appeared in new places too. The ocean seems full of life and energy right now.

Scientists and fishermen are working together to learn more. Fishermen share what they see on the water every day. Their knowledge helps scientists understand what is changing. Together, they hope to confirm that mackerel are truly making a strong and healthy comeback.

Scientists Film a Seizure Inside the Brain

Scientists have found a new way to watch seizures happen inside the brain. For the first time, they can see the whole event in stunning 3D detail.

Researchers at the University of Georgia built a special camera system. It works fast enough to film a seizure as it happens. That is no easy task. Seizures move through the brain in just a few seconds.

The team used tiny zebrafish for their study. These small fish are often used in brain research. The new camera captured the seizure moving through the fish's brain from back to front. Then the activity slowly faded away. It was all recorded in clear 3D video.

Seeing the brain in 3D makes a big difference. A flat, 2D image can miss important details. With 3D video, scientists can see exactly where a seizure starts and where it goes. This gives them a much fuller picture.

This discovery could lead to better treatments for people with brain conditions. The more we understand how the brain works, the better doctors can help. Scientists are excited about what this new tool could mean for patients in the years ahead.

Amazing Lab Takes a Million Photos of Life Itself

Scientists at a special laboratory in New York are doing something truly remarkable. They are taking over one million pictures of tiny living things every year. These pictures are so small they show the building blocks of all living things on Earth.

The laboratory is called LBMS. It opened five years ago and has grown into one of the best places in the world for this kind of research. Scientists from many places come here to do their work.

The cameras used are very powerful. They can show details so tiny that no human eye could ever see them. This helps scientists learn how living things work deep inside. It is like having a super-powered magnifying glass for life itself.

The director of the lab compared this work to a big breakthrough from 30 years ago. Back then, scientists found a new way to study nature. Now this lab is doing something just as exciting and important today.

Every year, scientists add nearly 100 new discoveries to a global science library. This helps researchers all around the world learn and build on each other's work. It is a wonderful example of people working together to understand the beautiful mystery of life.

Activity Time - Word Search

Find the words below in the puzzle. Words go across or down only.

Words to Find:

IMAGING

SCIENCE

FALCON

CAMERA

OCEAN

BRAIN

FISH

