

# GENTLE.NEWS

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*"The man of knowledge must be able not only to love his enemies but also to hate his friends."*

— Friedrich Nietzsche

### **New Scientific Tool Ready for Amazing Discoveries**

Scientists are getting excited about a wonderful new tool. It is called the Coherent Diffractive Imaging beamline. This special machine uses X-rays to help scientists see very tiny things.

The new tool is at a famous science lab in New York. Scientists from all over the country will be able to use it. They can study materials in amazing new ways.

This special X-ray machine can be adjusted for different experiments. Scientists can make the X-ray beam bigger or smaller. They can also make it more focused when they need to.

The new tool will help scientists see things that are incredibly small. They can look at materials and see how they change over time. This will help them make new discoveries.

Three new scientific tools like this one are being built. All of them should be ready by 2027. Scientists are already planning experiments to try. They are holding workshops to teach people how to use these amazing machines.

## **Technology & Innovation**

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### **NASA Works on Amazing New Flying Ideas**

NASA is working on exciting new ideas for flying. Their special program helps create better airplanes and flying machines.

Scientists are building amazing new tools. These tools help them design aircraft faster than ever before. The new computer programs make it easier to test ideas safely.

Many smart people work together on these projects. Universities, companies, and NASA share their best ideas. When everyone works as a team, they discover wonderful new things.

Young students get to help with this important work. They learn about flying machines and space travel. This helps them become the airplane designers of tomorrow.

These new ideas will make flying safer and better. NASA's work today will help create the amazing aircraft we'll see in the future. Every discovery brings us closer to incredible flying adventures.

### **Georgia and Forest Service Team Up for Healthier Forests**

Georgia is working with the U.S. Forest Service to take better care of the state's forests. The two groups signed a special agreement to work together.

The Forest Service Chief Tom Schultz says Georgia has been a wonderful partner. They will use controlled fires to keep forests healthy. These careful burns help prevent dangerous wildfires later.

The partnership will also help Georgia's timber industry. Georgia has the largest forestry business in the whole country. Working together will create jobs and support local communities.

The agreement helps with many forest activities. These include recreation, hunting, and fishing opportunities. It also focuses on keeping forests strong for many years to come.

Both groups want to make forests healthier and safer. They will share ideas and work across state lines. This teamwork will benefit people who live near forests and enjoy spending time outdoors.

### Fishing Captains Help Scientists Study Ocean Fish

Two brothers love taking people fishing for bluefin tuna. Captain Brian Bacon and Captain Peter Bacon work on boats off the Atlantic coast. They say bluefin tuna are amazing fish to catch.

"Once you go bluefin fishing, you'll never want to fish for anything else," says Brian. These fish are very strong and exciting to catch. Even small ones put up a great fight. Peter adds that the fish are powerful swimmers. It takes skill to bring them to the boat.

The Bacon brothers do more than just fishing trips. They help ocean scientists learn about bluefin tuna. They put special tags on the fish before letting them go free. The tags help scientists track where the fish swim.

Scientists give fishing captains free tagging kits. When captains tag a fish, they write down how big it is. They also note where they caught it. This information helps scientists understand ocean life better.

The tagging program lets fishing boats help science. Captains can take customers fishing even when regular fishing season is closed. Everyone feels good about helping protect ocean fish for the future.

### Scientists Share Their Work in Fun Contest

Thirteen young scientists took part in a special contest at a research lab. They had three minutes each to explain their work. The goal was to make science easy to understand for everyone.

The contest was called a Research SLAM. It happened in December at Brookhaven National Laboratory. Each scientist gave a short talk about what they study. They used simple words so anyone could follow along.

A group of judges picked the three best talks. They looked at how clear and interesting each presentation was. The scientists did a great job sharing their discoveries.

Preetha Sarkar won first place. She studies special materials called superconductors. These materials can carry electricity without wasting any power. Her work could help build better computers in the future.

The lab director praised all thirteen scientists. He said their research helps solve important problems. He also said it's wonderful when scientists can explain their work to everyone.

## Activity Time - Word Search

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

### Words to Find:

AIRCRAFT

MACHINE

CONTEST

FLYING

BOATS

TREES

STUDY

