

GENTLE.NEWS

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*"I loved you like a man loves a woman he never touches, only writes to,
keeps little photographs of."*

— Charles Bukowski

Scientists Make History With Tiny Particle Discovery

Scientists at a big American laboratory have made an exciting discovery. They studied a tiny particle called a muon. Muons are smaller than atoms. Researchers wanted to learn something new about how muons behave.

The scientists looked for a special property called an electric dipole moment. This is a very rare quality. Finding it would change what we know about physics. Physics is the science of how everything works.

This was the most careful search ever done for this property. Only two other searches like this have happened in the last 50 years. That makes this work very special and important.

Teams from two famous science centres worked together. One is called Fermilab. The other is Brookhaven Laboratory. Sharing their skills made the research stronger and better.

The discovery opens new doors for science. Learning more about tiny particles helps us understand the universe. Scientists are proud of this work. It is a wonderful step forward for all of humanity.

Space Technology Helps Predict River Water Levels

NASA, America's famous space agency, is helping people on the ground in a very smart new way. Satellites high above Earth are now helping to manage river water in Washington state. This is good news for over 151,000 homes that depend on that water for power.

Here is how it works. NASA satellites take pictures of snow and land from space. That information is sent to computers that study rivers. The computers then predict how much water will flow in the river hours or even days ahead of time.

A company called Upstream Tech uses this NASA data to make special forecasts. These forecasts help water managers know what is coming. They can prepare for big storms or plan carefully during dry spells. The forecasts are updated every two hours, day and night.

A power company called Tacoma Power uses these river forecasts to make electricity. Two large dams hold water on the Cowlitch River. That stored water is used to make clean, safe power for many families.

NASA's Erin Urquhart said it simply: "NASA delivers practical value to the nation." It is a wonderful example of space science helping everyday life right here on Earth. Looking down from space, NASA is helping keep our lights on and our water flowing.

Scientists Spot Hundreds of Whales and Dolphins in Hawaii

Hawaii is a wonderful place for ocean animals in winter. Whales, dolphins, and seabirds all gather around the islands during this special season.

Humpback whales travel to Hawaii's warm waters every winter. They come to have their babies there. Scientists recently spent two months at sea watching these amazing animals up close.

A team from NOAA sailed around the Hawaiian islands on a research ship. Even when the ocean was rough and choppy, they never gave up. Their sharp eyes spotted more than 200 groups of whales and dolphins.

The scientists saw some truly beautiful things. Humpback mothers swam gently with their new calves. Playful bottlenose dolphins rode the waves at the front of the ship. Spotted dolphins leaped high into the air. Special listening equipment helped find even more animals by picking up their sounds underwater.

This important work helps scientists protect these wonderful creatures. They are especially focused on a rare group of false killer whales that live near Hawaii. By learning more about where and when these animals gather, scientists can help keep them safe for many years to come. It is a truly hopeful effort for ocean life everywhere.

Robot Boats Help Scientists Learn About the Ocean

Scientists are using special robot boats to learn more about the ocean. These boats travel the sea all by themselves. No people are needed on board.

The boats are about 30 feet long. They sail day and night without stopping. They measure water temperature, currents, and even the weather. They also find areas where fish and tiny sea creatures like to live.

These robot boats help in ways ships cannot. In winter, it can be hard to send large ships out to sea. The robot boats go out in all conditions. They fill in the gaps and keep collecting information.

Scientists say they learn something new with every trip. Each mission helps them understand the ocean better. They are finding smarter ways to use these amazing little boats too.

This new technology is a big step forward for ocean research. It means we can watch the ocean more closely than ever before. The more we learn, the better we can protect the fish and sea life that call the ocean home.

NASA Teams Up With Students to Shape Future of Flight

NASA has chosen four university teams to help make air travel better and safer. The students will work on exciting projects to improve how aircraft fly.

Some teams will study how to make planes fly faster than the speed of sound. Others will look at ways to make small aircraft quieter as they fly over cities.

NASA calls this program the University Leadership Initiative. It gives students a chance to work on real flight research. Both graduate and undergraduate students take part. Their work could change how we all travel one day.

The projects include finding better ways to manage air traffic. Teams will also explore new kinds of aircraft for cities. Faculty members guide the student teams. Other colleges and universities join in as partners.

NASA is providing about 30 million dollars to support the teams over several years. This funding helps build a new generation of sky researchers. Their discoveries could make flying safer, quieter, and more exciting for everyone.

Activity Time - Word Search

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

Words to Find:

AVIATION CURRENT VESSEL SEARCH
POWER CALF MUON

R	O	F	Y	P	O	W	E	R	A	D
L	M	C	S	N	A	K	C	P	V	P
V	M	W	E	P	W	R	U	X	I	F
E	B	U	A	Y	N	D	R	M	A	U
S	Z	U	R	M	Z	M	R	K	T	L
S	J	C	C	M	Z	U	E	Y	I	X
E	X	C	H	L	E	O	N	U	O	Z
L	W	E	O	F	H	N	T	S	N	I
Y	S	Q	N	P	C	A	L	F	O	I
V	E	V	M	N	R	U	X	Z	K	W
J	W	B	G	M	H	K	J	P	H	V