this week at NASA the launch of space shuttle Endeavour for mission sts-134 has been rescheduled for May sixteenth during the mission endeavour and crew members commander Mark Kelly pilot Greg Johnson and mission specialists Mike Fincke Greg Chema talks drew hoisted and European Space Agency astronaut Roberto Vittori will deliver the Alpha Magnetic Spectrometer and spare parts to the ISS this will be the 36th shuttle mission to the International Space Station and Endeavors final flight five months after its completion the gravity probe B
mission has confirmed two aspects of Albert Einstein's theory of general relativity. GPB is one of only a very few astrophysics missions dedicated to fundamental physics. Most science missions seek to make new observational discoveries. The GPB mission measures and verifies two key predictions of Einstein's theory of relativity. He surmised that space and time are distorted by the presence of massive objects. GPB explored this theory using ultra precise gyroscopes to measure the geodetic effect or the warping of.
space and time by a celestial body like Earth and frame dragging the amount of spinning object like ER full space and time with it as it rotates so we completed this landmark experiment
testings einstein's universe and einstein survives nasa partnered with stanford university on the GPB mission with data collection continuing for 17 months while it orbited earth ignition and liftoff of the Delta rocket carrying gravity probe B the probe launched in 2004 from Vandenberg Air Force Base in California and successfully
decommissioned in December 2010 the

spacecraft continues to circle the earth

in a polar orbit at an altitude of 400 miles

at the Kennedy Space Center two events

commemorated the 50th anniversary of us human space lights during a special ceremony at KSC Visitor Complex the United States Postal Service unveiled two new stamp celebrating NASA's achievement now that we've had one pays tribute to Project Mercury and Alan Shepard's historic launch on May fifth nineteen sixty one aboard the spacecraft freedom 7 the second stamp honors NASA's
messenger spacecraft which reached mercury in March becoming the first spacecraft to orbit the planet both missions are part of a 50-year period that advanced American space exploration through more than 1500 manned and unmanned flights mercury astronaut scott carpenter and members of the Shepherd family joined nasa administrator charlie bolden for the unveiling so today we celebrate the inaugural man flight of Project Mercury and our historic first orbital mission to the planet Mercury these are two enormously important
points separated by years on the NASA continuum they're joined by more than just a name they embody the spirit of innovation and doing big things for which NASA has always been known during the second event the administrator joined KSC director and former astronaut Bob Cabana and more than 200 workers from the original mercury program to watch a recreation of shepherds flight and recovery the program also highlighted the former moon walkers contributions during the Apollo 14 lunar mission
young innovators from across the country converged on the Conrad Foundation's 2011 innovation summit bringing with them ideas for breakthrough technology held at the Ames Research Center the three-day event showcased the work of 27 high school team finalists and their teachers in the areas of aerospace exploration clean energy and cybersecurity in everybody hear me a number of supporters were featured including Mythbusters hope Adam Savage and Nancy Conrad wife of the late astronaut Pete Conrad commander of
Apollo 12 and the third man to walk on

the moon the spirit of innovation awards

is here to grow an innovative workforce

for the 21st century and we do that by

combining education innovation and

entrepreneurship the events included

with the awarding of the coveted Pete

Conrad spirit of innovation award to two

teams from Pennsylvania and another from

North Carolina the International Space

Station program office has been awarded

the 2011 Smithsonian's National Air and

Space Museum trophy for current

achievement the ISS is recognized as the

most complex feat ever attempted in
Earth orbit and the largest peacetime technological endeavor in space history

ISS program manager Michael suffered a knee accepted the award at a black-tie dinner in Washington DC we're part of a distinguished group of individuals and programs and were were blessed that you have some seen fit to honor us tonight receiving this year's Lifetime Achievement Award from Erin space was

George Mueller as head of NASA's human spaceflight program from nineteen sixty three to nineteen sixty-nine Mueller led the successful Apollo program that
landed the first humans on the moon in July 1969 one of the greatest engineering achievements in human history and now centerpieces approximately 84th to Croft grade students gathered at nasa's wallops flight facility for inspire the next generation day on April twenty-eighth today is national take your children to work day and that means that parents can take their kids with them to work and show them what they're doing and here's NASA we're trying to inspire kids to learn about stem topics
science technology engineering and math

students got hands-on and up close

experiences with model rocketry kite

building NASA aircraft and much more I

learned how to build a model rocket I

learned about the engines a little bit

my favorite part was the rocket launcher

cuz I actually got to let a rocket go up

into there and we made it by hand so

that was also fun inspire the next

generation day skelter by NASA Navy

surface combat system center and marine

science consortiums who all came

together for making a special day for

00:06:26,949 --> 00:06:30,849

00:06:28,930 --> 00:06:33,310

00:06:30,850 --> 00:06:35,890

00:06:33,310 --> 00:06:38,699

00:06:35,889 --> 00:06:42,039

00:06:38,699 --> 00:06:44,500

00:06:42,040 --> 00:06:48,939

00:06:44,500 --> 00:06:52,360

00:06:48,939 --> 00:06:54,519

00:06:52,360 --> 00:06:56,830

00:06:54,519 --> 00:06:59,229

00:06:56,829 --> 00:07:00,729

00:06:59,230 --> 00:07:02,379

00:07:00,730 --> 00:07:04,569

00:07:02,379 --> 00:07:08,469
students what it means to us is an

00:07:04,569 --> 00:07:10,449
asrock program it lets us reach out and

00:07:08,470 --> 00:07:12,430
makes us feel good because we get to

00:07:10,449 --> 00:07:13,990
share some of our passion and we love

00:07:12,430 --> 00:07:16,060
what we do and we want to be able to

00:07:13,990 --> 00:07:17,620
show these kids how much fun it really

00:07:16,060 --> 00:07:20,439
is it's not all fun all the time

00:07:17,620 --> 00:07:22,600
obviously but they can share with us a

00:07:20,439 --> 00:07:24,459
little bit and it gives us a day that we

00:07:22,600 --> 00:07:26,200
can kind of get up away from our desks

00:07:24,459 --> 00:07:28,629
and enjoy ourselves and remember

00:07:26,199 --> 00:07:34,930
ourselves what inspired us take it at

00:07:28,629 --> 00:07:38,199
this point it's not every day that a

00:07:34,930 --> 00:07:40,870
marine v-22 osprey lands at a convention

00:07:38,199 --> 00:07:42,699
center parking lot the tiltrotor made a
special appearance at the American Helicopter Society Forum in Virginia.

Beach, Virginia, the annual event is where the who's who and rotorcraft research and technology showcase the latest in vertical flight among the presentations.

31 papers from researchers at NASA's Langley aims and Glenn Research.

Langley Susan Gorton leads NASA's rotorcraft efforts; she's also the first female technical director of the helicopter society.

We look at how advanced ways for new rotor blades new transmissions new engines everything.
that can contribute to making things quieter safer easier to operate and cost-effective. NASA uses wind tunnels and other laboratories to try to radically improve rotorcraft performance and efficiency and reduce noise and emissions. The goal is to help make helicopters or other vertical takeoff and landing vehicles more mainstream able to carry more passengers and cargo quicker quieter safer and greener that could help relieve air traffic congestion reduce delays and make more efficient use of air space when we look.
at different configurations and how

airports work the ability to take off

without the runway means that you can

get off the ground faster you can turn

around the airplanes faster so if you

could move a large amount of people

without waiting for a runway slot you

can make a big difference up to thirty

percent more people through the airport

system the research to make vertical

lift aircraft more acceptable as

everyday transportation is not without

challenges say NASA engineers but

advancements being worked on now could

advancements being worked on now could
make a difference for future generations

00:09:22,049 --> 00:09:27,169
of helicopters and people

00:09:33,610 --> 00:09:41,389
9 and 10 I've got a but not seven the

00:09:38,779 --> 00:09:44,179
2011 first Championships have ended

00:09:41,389 --> 00:09:47,090
after three days of exciting competition

00:09:44,179 --> 00:09:52,849
between more than 600 teams representing

00:09:47,090 --> 00:10:00,530
over 29 countries over three days during

00:09:52,850 --> 00:09:57,230
free levels of events the team fought it

00:09:55,580 --> 00:10:00,530
out on the floors of the Edward Jones

00:10:00,529 --> 00:10:06,919
Dome in St. Louis Missouri this year's

00:10:03,230 --> 00:10:09,529
first robotics game for players ages 14

00:10:06,919 --> 00:10:11,809
to 18 was called logo motion with their

00:10:09,529 --> 00:10:14,209
self made robot competing teams were

00:10:11,809 --> 00:10:17,449
required to maneuver and hang as many

inflated triangles circles and squares
all elements of the first logo on grids

as fast and high as they could during two-minute 15-second intervals the

higher the team's hung their game pieces the more points they received three

teams from San Jose California Schaumburg Illinois and Atascadero

California won the final showdown earning the coveted FIRST Robotics

Competition championship-winning

Alliance several other teams receive honors for design excellence competitive

play teamwork and partnerships the first organization and competitions were
founded by inventor dean Kaman to
inspire young people's interest in
science and technology the first acronym
stands for for inspiration and
recognition of Science and Technology
this year's championship honored Dean's father the late Jack payment
comic cover artist and designer of the
first logo
headquarters employees have a new place
to connect and commune with each other
administrator charlie bolden and deputy
administrator lori garver presided at
the reopening of the columbia cafe the
space now provides an informal cyber

cafe setting on opening day the first

100 attendees received a complimentary
cup of 18 coffee or tea and that's this

week @nasa for more on these and other

stories log on to