this week at NASA

NASA Administrator Charles Bolden joined other agency officials and dignitaries at the Washington National Cathedral to honor the life and career of astronaut Neil Armstrong the first man to walk on the moon who died August 25th the memorial was broadcast live on NASA television and streamed on nasa.gov and the National cathedrals web site the historic landmark is considered the spiritual home for the nation and brings Americans together at important moments to pray commemorate celebrate and mourn.
Neil Armstrong left more than footprints and a flag on the moon in fact as President Obama said in a letter future generations will draw inspiration from his spirit of discovery the imprint he left on the surface of the Moon and the story of human history is matched only by the extraordinary mark he left on the hearts of all Americans fate looked down kindly on us when she chose Neil to be the first to venture to another world and to have the opportunity to look back from space at the beauty of our own it could have been another but it wasn't
and it wasn't for a reason no one no one

but no one could have accepted the

responsibility of his remarkable

accomplishment with more dignity and

more grace than the alarm strong the

memorial was befitting the man whose

prowess as an x-15 test pilot whose one

giant leap for mankind

assured in a new era of exploration and

whose contributions in academia and the

private sector also enabled and inspired

others to achieve

Neil Armstrong was 82 one feature of the

National Cathedral will long remain an
iconic reminder of the apollo 11 mission

commanded by his fellow crew members and

their service to the nation and the

world in the cause of exploration the

window is one of the centerpieces of of

this cathedral is one of the most

popular things that people want to see

the center of it is the moon rock that

was presented to the cathedral in 1974

by Neil Armstrong Buzz Aldrin and

Michael Collins Michael Collins is a

graduate of one of the Cathedral schools

st. Albans school for boys a gift by the

wave of a former NASA Administrator

Thomas Paine the window is is very very
stark and very beautiful one of the larger presentations that we have in this place and it's very very impressive in its in its whole look in here and people do seek it out one of the things that impresses me about it is that that there is a deep connection between the spiritual enterprise and the exploration of space both of them are about exploring the darkness that surround us as a planet exploring the darkness from which we come at birth and to which we return at death the journey inward of the spiritual and the
theological the journey outward of the space programs are very closely connected to exploration and it ties in in my mind perfectly and beautifully in this place.

I'm David Oh lead flight director for the Mars Curiosity rover and this is your Curiosity rover report over the past seven days we've been doing checkouts of the arm instruments including the Molly imager which is a very versatile instrument that can focus on things that are close by and very far away the imager has generated some
spectacular shots of the underbelly of the rover and it's wheels of a 1909 Lincoln penny that we mounted on the rover for calibration purposes so we can check that the cameras operating properly and it's also been used to generate a nice self-portrait of the mastcam on the rover a portrait that's taken by the arm looking back the same way you would take a picture of yourself using a cell phone we've also been testing the apxs instrument an instrument for doing contact mineralogy science it generates spectra that allows
us to identify the mineral for present

00:04:35,800 --> 00:04:39,490
alone when the checkout of the arm is

00:04:38,110 --> 00:04:42,220
complete we'll be continuing our drive

00:04:39,490 --> 00:04:43,360
to the scientific target Glenelg but

00:04:42,220 --> 00:04:45,310
we'll be stopping along the way to take

00:04:43,360 --> 00:04:47,979
some video of the Martian moons Phobos

00:04:45,310 --> 00:04:49,389
and Deimos passing overhead we control

00:04:47,978 --> 00:04:51,370
the rover from Earth but we have to

00:04:49,389 --> 00:04:52,870
operate it on Mars time on Martian day

00:04:51,370 --> 00:04:54,579
is thirty nine minutes longer than an

00:04:52,870 --> 00:04:56,709
Earth Day so every day the whole

00:04:54,579 --> 00:04:59,198
operation team comes in 40 minutes later

00:04:56,709 --> 00:05:02,109
every single day to send commands to the

00:04:59,199 --> 00:05:04,090
rover in the month after landing my

00:05:02,110 --> 00:05:06,220
whole family joined me on Mars time and
we got to jump at times on a day for 30
days going all the way around the clock
if we did that we got to explore Mars
here at JPL and to explore it Los Angeles at night and it was a great
adventure for the whole family this has
been your Curiosity rover report check
back for more updates on what's happening on Mars
Mars Science Laboratory team members at headquarters were at Washington's
Florida House or Mars day in DC a celebration of the curiosity Rover's
successful landing on the Red Planet
NASA Mars program director Doug McQueen briefed members of Congress and other invited guests on what science curiosity is expected to provide during its two-year mission additional presentations detailed how curiosity and its suite of pens science instruments will conduct in Gale Crater the most difficult planetary exploration mission ever undertake NASA deputy administrator lori Garver delivered the keynote address at the space 2012 conference in Pasadena California the annual American Institute of Aeronautics and
Astronautics Gathering is considered the premiere event on space technology.

This is truly something that we work with together as an industry and government and academia and we look forward to strengthening our partnerships as our commercial space industry assumes even more of a role in this new era of human and scientific space exploration the theme of this year's AI a conference was creating a sustainable vision for space accepting the award is John Kallis the MER project.
manager also at the conference the

00:06:57,379 --> 00:07:02,120
mission team at JPL for NASA's

00:06:59,569 --> 00:07:04,819
long-lived Mars exploration rovers

00:07:02,120 --> 00:07:06,800
Spirit and Opportunity was presented the

00:07:04,819 --> 00:07:09,199
Halley Space Flight Award for the

00:07:06,800 --> 00:07:12,319
advancement of the art science or

00:07:09,199 --> 00:07:15,500
technology of astronauts in its eighth

00:07:12,319 --> 00:07:17,930
year of operation on Mars Opportunity is

00:07:15,500 --> 00:07:20,439
surveying a crater rim about 52 hundred

00:07:17,930 --> 00:07:23,060
miles from curiosity's current position

00:07:20,439 --> 00:07:26,420
spirit explored the red planet for more

00:07:23,060 --> 00:07:29,629
than six years 24 times longer than its

00:07:26,420 --> 00:07:31,610
planned 3-month mission past recipients

00:07:29,629 --> 00:07:34,730
of the Halley spaceflight award include

00:07:31,610 --> 00:07:35,800
astronauts Alan Shepard John Glenn Tom
Stafford

Crippen Kathy Sullivan and the crew of

sts-125 the last space shuttle servicing

mission to the Hubble Space Telescope

after weathering Hurricane Isaac

gineers at the stennis space center

returned to testing the j-2x engine the

first post storm j-2x test firing was of

the engine's upper stage that lasted 250

seconds the j-2x will help power NASA's

Space Launch System the new heavy-lift

rocket that will send astronauts beyond

Earth orbit NASA Chief Technologist

Mason Peck joined state and local
officials at the University of Texas at El Paso for the official opening of UTEP's Center for Space Exploration technology research or sea stir and the NASA science engineering mathematics and aerospace education laboratory located in the university's engineering building it's the kind of collaborative activity that we now at NASA recognized as essential to how we are trying to form the future of space technology the agency the nasa funded sister conducts analytical experimental and computational research and energy and
propulsion engineering the aerospace

education laboratory offers technology

and innovation learning opportunities to

students of all ages from k12 to

postgraduate and lifelong learners

the vertical water drop test continues

the Orion multi-purpose crew vehicle at

the Langley Research Center's hydro

impact Basin the latest drop for Orion

was from a height of 25 feet unlike last

summer's swing drop tests that certified

Orion for water landings these vertical

drop tests help predict Orion's landing

loads Orion is scheduled to launch in
2014 on its exploration flight test-1

00:09:39,200 --> 00:09:44,200 and travel 15 times deeper into space

00:09:42,590 --> 00:09:48,070 than the international space station

00:09:44,200 --> 00:09:48,070 before returning to work

00:09:50,549 --> 00:09:54,719 the Shuttle Carrier aircraft that is

00:09:52,769 --> 00:09:57,059 Space Shuttle Endeavour's ride for the

00:09:54,720 --> 00:10:00,410 cross-country journey to California made

00:09:57,059 --> 00:10:03,539 its arrival at the Kennedy Space Center

00:10:00,409 --> 00:10:05,610 like discovery and Enterprise before it

00:10:03,539 --> 00:10:08,549 space shuttle Endeavour is taking its

00:10:05,610 --> 00:10:10,889 turn in the ferry flight spotlight the

00:10:08,549 --> 00:10:13,049 first-class piggyback ride atop the SCA

00:10:10,889 --> 00:10:15,049 culminates for nasa's youngest orbiter

00:10:13,049 --> 00:10:17,759 at Los Angeles International Airport

00:10:15,049 --> 00:10:20,120 with appearances along the way in the
skies over several NASA installations

including the Johnson Space Center

Stennis Michou white sands and the Ames

Research Center endeavour is scheduled to arrive at its new home the California Science Center on October 13 and go on display October 30th meanwhile the structure for the new florida home of space shuttle Atlantis has been topped out with its highest beam in a ceremony marking a milestone in the construction of the 90,000 square foot exhibit hall that will house the orbiter at the Kennedy Space Center Visitor Complex the
38 foot long one-ton steel beam was lifted 116 feet off the ground and locked into place a small tree and an American flag were fitted onto the beam that bore the signatures of hundreds of NASA employees. Atlantis, the last space shuttle they ever fly in space is going to look like it actually is in space here at the Kennedy Space Center and I can't think of a more fitting place to tell that story on November 2nd. Atlantis will be the last shuttle to move out of the operational area at KSC the shuttle will be transported by the orbiter.
transport vehicle or OTV from the Vehicle Assembly Building to the Visitor Complex
three future residents of the International Space Station previewed their upcoming mission during a media briefing at the Johnson Space Center's expedition 34 and 35 crew members Tom Marshburn of NASA Chris Hadfield of the Canadian Space Agency and Roman Romanenko of the Russian Federal Space Agency are set to launch to the station December 5th we're always looking at ways to getting even better medical
judgment up there and in a small way I'm

272
00:12:06,980 --> 00:12:12,649
my medical judgment is what's going to

273
00:12:09,259 --> 00:12:15,200
add to the medical care onboard so I

274
00:12:12,649 --> 00:12:18,708
want to be a part of getting that

275
00:12:15,200 --> 00:12:20,390
onboard a spacecraft even more some

276
00:12:18,708 --> 00:12:22,729
really critical operations done in the

277
00:12:20,389 --> 00:12:24,889
last couple weeks overcoming some big

278
00:12:22,730 --> 00:12:27,470
significant hurdles and having the Space

279
00:12:24,889 --> 00:12:29,120
Station boot the combination of the

280
00:12:27,470 --> 00:12:31,009
electrical repair and the EBA is of

281
00:12:29,120 --> 00:12:35,120
demonstrating the necessity for

282
00:12:31,009 --> 00:12:36,708
continued expertise and skill in this

283
00:12:35,120 --> 00:12:38,419
thing that is spaceflight when they

284
00:12:36,708 --> 00:12:41,208
arrived at the world's only research

285
00:12:38,419 --> 00:12:43,549
laboratory in microgravity the trio will
join NASA astronaut Kevin Ford and

Russian cosmonauts Evgeny Tarelkin and

Oleg Novitskiy or scheduled to launch to

the ISS from Russia on October 15. I'm

backing away now. Meanwhile, the current

crew onboard the station got rid of some

unneeded items after spending almost two

months attached to the Harmony module.

The Japanese KUA Tori transfer vehicle

or HTV-3 was unberthed and released by

Expedition 32 crew members Joe Acaba and

Aki Hoshide. An engine firing sent

the trash packed cargo vehicle back into

Earth's atmosphere to burn up over the
Pacific Ocean

the HTV three craft launched from the Japan Aerospace Exploration Agency's launch site in Tanegashima, Japan July 21st and arrived at the station six days later to deliver several tons of food supplies and science experiments for the station residents.

given your unique qualifications to ask you to serve as the first science officer on International Space Station.

10 years ago on September 16, 2002, expedition five crew member Peggy Whitson was named as the first NASA.
science officer of the international space station since then each expedition crew has had a nasa science officer working with the u.s. research community to maximize returns of station science experiments during her tenure as science officer which denis 1 investigations in human life sciences and microgravity Sciences as well as commercial payloads the name is Luis Dominguez and I worked for Mars Science Laboratory in the mission system testbed as a test conductor I am half Honduran half Mexican so my
mom is from Mexico southern Mexico and

my dad's from central Honduras I do come

from a very hard working family so I

always have that you know that very like

I'll work till it's done you know

attitude and like you know a no job is

too menial or you know too unimportant

I mean sometimes things are mundane and

you know but they have to get that I JPL

what I do is a lot of troubleshooting

for the most part with the actual

internal robotics in the rover I've been

on it myself for about five years now

I started off in a low the assembly test

and launch operations team but I started
there as an intern and then I moved over to the testbed on the day-to-day basis I usually just go around helping people with their tests or if they get into certain configurations that they don't understand I help them get out of them they trip fault protection that we have in the rover I really enjoyed the challenge I actually helped build something that's on the surface of Mars it's an amazing feeling and that's this week @nasa for more on these and other stories or to follow us on Facebook Twitter and other social media log on to