ladies and gentlemen thank you for joining us for the u.s. astronaut Hall of Fame induction ceremony honoring our nation's space heroes please rise for the presentation of colors by Boy Scout Troop 369 from Merritt Island Florida followed by the national anthem performed by Jennifer Harris

oh say can you see by the dawn's early light what so proudly we hailed at the twilight's last gleaming whose broad stripes and bright stars through the perilous fight or the ramparts we watched were so gallantly streaming and
the Rockets red glare the bombs bursting in air gave proof through the night that our flag was still there oh say does that star-spangled banner yet wave babe or the land of the free and the home of the great hey

ladies and gentlemen please welcome the chief operating officer of kennedy space center visitor complex mr. william moore
go ahead everyone and welcome
Jennifer thank you very much for that wonderful rendition of our National Anthem on behalf of delaware north
companies employees worldwide and

certainly here all of our crew members

here at the Kennedy Space Center Visitor Complex I would like to welcome all of

you to today's induction ceremony

celebrating our 10th class of space shuttle astronauts into the u.s.

astronaut Hall of Fame it is always a

privilege to host the induction ceremony

and be part of this momentous occasion

that honors leaders in spaceflight and

community who are truly deserving of

both our recognition and our respect

there is no better place on this earth

there is no better place on this earth
to host this celebration that anti

44
00:03:56,430 --> 00:04:01,459
Kennedy Space Center a truly special

45
00:03:58,769 --> 00:04:04,560
place where you can witness history in

46
00:04:01,459 --> 00:04:06,030
history in the making as you might have

47
00:04:04,560 --> 00:04:07,699
seen this afternoon just before the

48
00:04:06,030 --> 00:04:10,109
induction with the launch of an atlas 5

49
00:04:07,699 --> 00:04:14,250
she's a nice job pull Matt off on time

50
00:04:10,109 --> 00:04:16,228
today as we prepare for the upcoming

51
00:04:14,250 --> 00:04:18,600
launches of space shuttles endeavour and

52
00:04:16,228 --> 00:04:20,879
atlantis on their final missions to the

53
00:04:18,600 --> 00:04:23,070
International Space Station we reflect

54
00:04:20,879 --> 00:04:25,409
back on more than 30 years of space

55
00:04:23,069 --> 00:04:28,288
shuttle program and the legacy that

56
00:04:25,410 --> 00:04:31,080
these astronauts have left on us space

57
00:04:28,288 --> 00:04:34,199
evolution the Kennedy Space Center
complex is honored that Atlantis will be coming home and we'll stay here to be honored for years to come we look forward to sharing the legacy of the astronauts thank you we look forward to sharing the legacy of these astronauts the story of the space shuttle and most importantly the thousands who have worked tirelessly to make this remarkable program successful I would like to take just a moment to acknowledge a few people in the audience with us today very proud to have a NASA Administrator Charles Bolden here with
us a very own Kennedy Space Center

Director Robert Cabana they will both

join us shortly along with the hall of

fame astronauts we also have astronauts

John McBride Susan Cal rain Don mc dougal

and Donna working on your name there who

are also in the audience today I’d also

like to thank you I would like to

recognize the really significant

collection today’s ceremony by the

astronaut scholarship foundation their

board of directors including incoming

chairman Charlie Duke and their

executive director LAN LeBlanc charlie
lynn thank you both very much announce

my pleasure to welcome to the stage

today's master as a ceremony he has

CNN's Miami correspondent responsible

for all of CNN's coverage of news in

florida and the caribbean since joining

CNN in 1983 he has covered every major

hurricane to hit Florida and the Gulf

Coast he is also CNN's principal

correspondence for the coverage of the

u.s. space program having covered events

such as John Glenn's 1998 returned to

space flight the Mars Pathfinder mission

and the 2005 returned to flight mission
along with numerous other space shuttle launches he has won two Emmy Awards and has been honored numerous times for his reporting contribution ladies and gentlemen please join me in welcoming to the stage John Zarrella thank you Bill and I real ladies and gentlemen we really owe bill and his team here a resounding applause for the work that they did in order to bring Atlantis here and in just a couple of years where's it where's the building going to be that way right I'm turned around and it'll be a spectacular facility and I know all of you will want
to be here to see Atlantis when it is on
permanent display here so thanks Bill
and good afternoon and good afternoon
ladies and gentlemen it is my pleasure
to be here once again for the United States astronaut hall of fame induction
ceremony it is truly an honor to be here
and surrounded by so many of the great
space heroes again as bill mentioned
only two flights left and i recall not
that long ago sitting in Houston and
interviewing alvin drew who was a
mission specialist on the final flight
of the space shuttle discovery and we're
talking and Alvin says he says you know

a hundred years from now conspiracy

theorists are going to be out there and

they're going to say there's no way they

deflew a space shuttle a lifting body that

could launch satellites that you could

repeat you could launch and repair the

Hubble Space Telescope you could build

an international space station no way

they could have done that and then on

top of that returned earth and then fly

again it just is impossible I talked to

Steve Lindsey out there as well who was

the commander for the discovery flight
and we were talking about you know well how do you feel about all he said you know this is really a time not to be sad but a time to celebrate the wonderful accomplishments of 30 years of flying space shuttles and when you celebrate the accomplishments you're celebrating the engineers and the scientists and the technicians and of course the astronauts who flew these marvelous lifting bodies and it is because on their shoulders the future is going to be built the United States space program and now it is my privilege to introduce to you the
attending members of the United States

astronaut Hall of Fame a founder of the

astronaut scholarship foundation he is

one of America's original seven

astronauts he has the distinction of

being the first human to conduct

missions in both outer and inner space

he flew the second American orbital

flight piloting his spacecraft through

three revolutions of the earth later he

participated in the Navy's man in the

sea project as an Aquanaut in the c-lab

to program scott Carpenter

selected as an astronaut by NASA in 1963

he made his first spaceflight as pilot
on the three-day Gemini 11 mission
during which he left the spacecraft for a 44-minute spacewalk in November 1969
he circled 60 miles above the moon while his Apollo 12 crewmates walked on its surface he retired from NASA in 1972 to become executive vice president of the New Orleans Saints professional football team Dick Gordon he served as lunar module pilot aboard the first manned mission of the Apollo 7 program he later served as chief of the Skylab branch of the flight crew Directorate overseeing components of the United States first
space station today he shares his thoughts on spaceflight through periodic columns lectures and his book the all-american boys walk Cunningham

he was selected by nasa for its fifth class of astronauts in april 1966 in 1970 he was a member of the Apollo 13 crew that struggled to return to Earth after an oxygen tank explosion aborted the mission as it approached the moon he later commanded the Space Shuttle enterprise on its approach and landing test flights Fred Hayes

he was the sixth person to step foot on
the moon during Apollo 14 NASA's third moon landing he in the late Alan Shepard explored the moon's hilly from aura region in 1971 on the first mission devoted to lunar science they established the record for the longest foot Traverse exceeding four kilometers he retired from NASA and founded the Institute of noetic Sciences in an effort to integrate scientific disciplines into the study of human consciousness he was a 2005 nominee for the Nobel Peace Prize Edgar Mitchell he served as command module pilot on the
1971 Apollo 15 moon mission during which

00:12:43,649 --> 00:12:48,149
he orbited the moon while his crewmates

00:12:45,659 --> 00:12:49,679
explored the surface on the homeward

00:12:48,149 --> 00:12:52,500
journey he took the farthest out

00:12:49,679 --> 00:12:55,229
spacewalk 200,000 miles from earth

00:12:52,500 --> 00:12:57,629
moving along handrails on the outside of

00:12:55,230 --> 00:12:59,819
endeavour to retrieve film canisters

00:12:57,629 --> 00:13:07,800
from the two moon mapping cameras out

00:12:59,818 --> 00:13:10,938
warden he became the tenth person to

00:13:07,799 --> 00:13:14,729
walk on the moon aboard Apollo 16 in

00:13:10,938 --> 00:13:16,948
1972 during three excursions over three

00:13:14,730 --> 00:13:20,188
days he and fellow astronaut John Young

00:13:16,948 --> 00:13:24,958
drove a lunar rover 16 miles and

00:13:20,188 --> 00:13:27,269
collected 213 pounds of lunar rocks and

00:13:24,958 --> 00:13:29,638
soil today's president of Charlie Duke
enterprises and is an active speaker

Charlie Duke

he worked for 59 days in orbit as a

member of the second Skylab station crew

in 1973 in 1982 he commanded the third

orbital test flight of space shuttle

Columbia the only mission to land at

White Sands New Mexico he retired from

NASA and the Marine Corps as a colonel

in 1984 Jack Liao's MA he lived in space

for 59 days aboard the skylab space

station in 1973 during which he

conducted three spacewalks to exchange

film and direct a sunshield to cool the
orbiting laboratory 10 years later he returned to space aboard Columbia on the first flight of the space lab laboratory currently is an adjunct professor at the University of Alabama in Huntsville Owen Garriott he piloted the maiden flight of the space shuttle program on the orbiter Columbia in 1981 he then commanded three additional Shuttle missions including the first mission to capture repair and release a satellite in the early 1990s he served as director of NASA's Kennedy Space Center and later served as
president of Thiokol Aerospace Group in Utah.

Bob Crippen, he piloted the fourth and final test flight of the Space Shuttle Columbia before commanding Discovery on its maiden voyage in 1984. His last assignment was the first planned and controlled mission by a foreign customer and the first to fly eight crew members.

He later served as vice president for Raytheon Aerospace Engineering, Hank Hartsfield.

He flew to space twice on missions STS 5 and STS 51A, his rookie flight the Shuttles' first orbiting mission deployed.
two satellites his second mission

00:15:40,399 --> 00:15:46,100
featured the world's first space Salvage

00:15:43,120 --> 00:15:48,110
using a jet backpack he and his crew

00:15:46,100 --> 00:15:50,330
mate Dale Gardner captured two

00:15:48,110 --> 00:15:52,970
malfunctioning satellites after leaving

00:15:50,330 --> 00:15:55,340
NASA in 1985 he served as chief

00:15:52,970 --> 00:15:57,440
executive officer of space Industries

00:15:55,340 --> 00:16:00,680
International and later was chairman of

00:15:57,440 --> 00:16:08,690
Veridian Corp until he retired in 2004

00:16:00,679 --> 00:16:10,939
Joe Allen a three flight veteran he and

00:16:08,690 --> 00:16:12,620
fellow crew member Bob Crippen were the

00:16:10,940 --> 00:16:15,680
first to fly in orbiter in close

00:16:12,620 --> 00:16:18,740
proximity to a free-flying satellite on

00:16:15,679 --> 00:16:19,969
sts seven he went on to command the

00:16:18,740 --> 00:16:23,480
return to flight mission after
challenger was lost he left NASA in 1989

and later became president and CEO of

axis Base in Maryland recalcul

he flew three shuttle mission he served

as pilot of STS 51 c and commander of

STS 31 during which the crews

successfully deployed the Hubble Space

Telescope he went on to command STS 46

deploying the European retrievable

carrier Eureka and the Italian tethered

satellite from nineteen ninety seven to
two thousand he held the position of
deputy director of NASA's Kennedy Space

Center recently retired as vice
president of engineering and integration

and chief technology officer at United

Space Alliance Lauren Shriver he is a

veteran of five Shuttle missions and the

first astronaut to log 1000 hours on the

shuttle he made NASA's first unplanned

spacewalk and performed three spacewalks

during the first Hubble Space Telescope

rescue repair mission he is currently a

professor at the Massachusetts Institute

of Technology Jeff Hoffman

his first mission aboard space shuttle

Columbia was the last to fly before the

Challenger accident in 1986 he later
piloted space shuttle discovery on the
five-day STS 31 mission to deploy the
Hubble Space Telescope he flew twice
more into space logging more than six
hundred and eighty hours in orbit today
he serves as the NASA Administrator
Charles Bolden he is a for flight veteran piloting his first two Space
Shuttle missions later he commanded STS 65 during which he and his crew set a
record for the longest space shuttle
mission at that time and STS 88 the
first space station assembly mission he
is currently the center director right
here at NASA's Kennedy Space Center

Robert Cabana ladies and gentlemen our Hall of Fame astronauts

and

and now I’d like to welcome to the podium Hall of Fame astronaut and Kennedy space center director Mr. Robert Cabana thanks John well good afternoon

everybody and welcome to the Kennedy Space Center for today's hall of fame induction ceremony what a great weekend

this has been starting out last Thursday with the 50th anniversary celebration of the first American to fly in space Alan Shepard a Hall of Fame astronaut and the
founder of what has become the astronaut

scholarship foundation although that

first flight only lasted 15 minutes and

gone to an altitude of a hundred and

sixteen miles it opened the door to

space for the United States and we've

been charging ahead ever since today's

inductees Bo Bob Cohen Susan Helms carry

on a pioneering spirit of Alan Shepard

they have careers that span our nation's

space program from what was the military

orbiting laboratory program back in the

60s too long duration space flights

aboard the International Space Station
in 2001 they're both extremely deserving

of this honor and it's a real pleasure

for me to be able to participate in it a

few weeks ago we celebrated the 30th

anniversary of the first flight of the

space shuttle the shuttle has been a

phenomenal vehicle it's enabled us to

learn how to actually live and work in

space and it made it possible for us to

build the International Space Station

that's been permanently manned since

october of 2000 just as we transitioned

from Apollo to shuttle NASA in the

Kennedy Space Center are in a time of
transition now as we move from shuttle

to support a more diverse national space

program that includes commercial access

to space and a space launch system in

multi-purpose crew vehicle though will

once again enable us to explore beyond

the bounds of our home planet space

exploration is challenging but I know

that we will be successful because of

the outstanding team at NASA and here

Kennedy Space Center that everyday make

the impossible seem ordinary thank you

so much for your support once again

welcome to the Kennedy Space Center and
once again congratulations to our

inductees thank you

thanks again Bob now ladies and

gentlemen on behalf of the astronaut

astronaut and I told him I chill for him

a little bit here he's got a book coming

out called falling to earth july twenty

sixth and better than some of the places

I've seen you falling just kidding

Colonel al worden thanks John I'm not

really sure I want you shilling for me

fella we got to do this right way anyway

let me add my welcome to what Bob has

said what John has said it's really a
great day let me tell it's about 10

degrees cooler than it was last year at

Natalie and there's a nice little breeze

blowing so this is really wonderful

today I want to tell you a little bit

about the Austin Scholarship Foundation

which has been running strong for over

25 years is founded in nineteen

eighty-four by the original seven

mercury astronauts now al scheppers the

first guy to fly it space that use also

if I'm not mistaken the spark plug that

started the mercury seven foundation

which kind of morphed into the astronaut
scholarship foundation as we know it today the goal of the foundation is to help the United States retain its world leadership and science and technology to the top college students in the country in the beginning the original seven guys gave each of the scholars they gave seven scholars a thousand dollars each we give a lot more than that today actually before I go on I we're really proud to have one of the original founders with us here today and I'd like scott carpenter to stand up and take a bow please
thanks God thanks for a while you've done thank you for your great support of the foundation okay today over 80 astronauts from every US Space Program have joined our efforts the foundation now disperses 26 $10,000 scholarships annually and has awarded over 3 million dollars in scholarships totally since its inception these scholarships are in fact the largest monetary award given in United States to science and technology and engineering students in the undergraduate level based solely on merit we do not consider need we're
trying to get the best and the brightest

regardless of where they come from into

the program so this is something we're

really very very proud of not only does

the foundation provide scholarships but

we promote the importance of science

technology and space exploration

wherever we can one way we do this is by

serving as a consultant to NASA and

Kennedy Space Center Visitor Center

complex to the u.s. astronaut Hall of

Fame where we supervise the selection

process of new astronauts for induction

and we closely work with the Hall of

Fame astronauts to provide personal
artifacts for public display in the Hall

of Fame to do so we put together an outside committee of Hall of Fame

astronauts aerospace journalists authors

and retired NASA and Industry personnel

many of who are with us today with those who are on the induction selection

committee please stand and take about

Hugh Jack I know all you guys Rob

we haven't you unfortunately that the chairman of that committee can't be with

us today Bob seek puts that committee together for us every year it Bob's not

here is he I don't think because I tell
you what Bob's doing today he's up at

Daytona racing in the in the Paul

Whitman Trophy race up there in his

little Mazda which goes 140 miles an

hour so Bob's still running fast right

he's really doing well now most of you

know last night we had a wonderful time

to celebrate the new inductees is a

great night but the evening would have

been possible if it weren't for the

support of our sponsors don't want to

list just a few of them for you I'd like

to take a moment to thank our friends at

NASA Charlie Bolden and Bob Cabana i
should say general and the colonel

whatever thank you sir bill moore from kennedy space center visitor complex

built we appreciate it thank you very much your partnership is really invaluable to us I also want to thank our top induction sponsors the courtyard by marriott in cocoa beach The Boeing company Lockheed Martin James long omega swatch group science applications international corporation and all the others who supported this event today

now i guess i'm going to show for john a little bit let me give you hand you over
to the great the one and only CNN

00:26:29,849 --> 00:26:36,209
reporter john zarrella he already told

00:26:34,500 --> 00:26:39,690
me I wasn't getting a free copy of the

00:26:36,210 --> 00:26:41,039
book either I have to tell you you know

00:26:39,690 --> 00:26:42,779
just for all of those of you out there

00:26:41,039 --> 00:26:44,220
this you're here today but you weren't

00:26:42,779 --> 00:26:46,859
able to be at the obviously at the event

00:26:44,220 --> 00:26:50,160
last night many of you these these

00:26:46,859 --> 00:26:52,349
scholarship recipients they make this

00:26:50,160 --> 00:26:53,820
country proud you have no I have

00:26:52,349 --> 00:26:55,049
absolutely when they were listing off

00:26:53,819 --> 00:26:57,089
the things that they're doing in their

00:26:55,049 --> 00:26:59,579
research their studies I'm like huh

00:26:57,089 --> 00:27:02,939
that's all now I know why I'm a

00:27:02,939 --> 00:27:05,220
journalist I mean they're brilliant and
the future of our nation is in good hands with them let me tell you right now but if it weren't for the scholarship foundation and what they do a lot of what they're doing would not be possible so remember these gentlemen and everybody on the foundation because they do absolutely outstanding work and the time has arrived the induction of the 10th class of space shuttle astronauts into the United States astronaut Hall of Fame they will be introduced in the order in which they flew into space our first
inductee is Carol Bobko during his
19 years in the astronaut program.

Colonel Bobko flew on three Space Shuttle missions and logged more than three hundred and eighty six hours in space.

Bo served as pilot during the first voyage of space shuttle Challenger aboard STS six during which the crew conducted the first space shuttle spacewalks in April nineteen eighty-five.

Bo served as the commander of STS 51 d after seven days in space he successfully landed space shuttle Discovery in spite of a blown main.
landing gear tire in October 85 he flew

on st s 51 j the first flight of the

shuttle atlantis and the second

department of defense mission for the

space shuttle program bo retired from

NASA and the United States Air Force in

1988 currently he serves as president of

the United States chapter of the

association of space explorers now let's

take a look at a few video highlights

from his stunning career

we have a liftoff all engines building

a very rewarding experience Roger it's

countered ass government my students

countered ass government my students

countered ass government my students

that has been proposed by the first air

00:29:08,549 --> 00:29:11,940
thank you both

00:29:54,089 --> 00:30:01,079
my clothes laid up and this is the

00:29:57,999 --> 00:30:01,079
original flight planner

00:30:25,029 --> 00:30:29,039
a new orbiter joins the shuttle fleet

00:30:29,869 --> 00:30:32,500
thank you

00:30:38,240 --> 00:30:42,589
ladies and gentlemen astronaut Bo Bob

00:31:01,710 --> 00:31:06,269
and now to present Bo Bob go for

00:31:04,140 --> 00:31:08,669
induction into the United States all of

00:31:06,269 --> 00:31:14,970
Fame please welcome Hall of Fame

00:31:08,669 --> 00:31:17,009
astronaut Jeff Hoffman well i am

00:31:14,970 --> 00:31:18,839
absolutely delighted and honored to be

00:31:18,839 --> 00:31:25,949
able to introduce my first mission

00:31:17,009 --> 00:31:21,778
commander and my good friend carol j

00:31:21,778 --> 00:31:27,808
bobko or as we all know him beau now
you'll hear him talk in a little while

and you may not be able to tell it from

his accent but beau was actually born in

New York City and so like myself he is a

genuine apple astronaut I did a little

research into his childhood in

preparation for these remarks and I

found an amazing fact during all of his

youth his mother never once called him

Bo she called him Carol which is a good

polish name and I actually will jump

ahead in time a little bit to tell

another story about Carol Yosef Bob

chose polish heritage this was actually
the first time that I specifically became aware of Boaz a distinct personality in the astronaut office it was in October 1978 right after Carol Joseph voy alla was elected Pope and a sign appeared on bose office door / crank proclaiming in very large letters that from henceforth it would be considered a mortal sin to tell polish jokes and i hope that this story up just full of doesn't count as a polish joke and i never heard any polish jokes after that in the astronaut office well beau was fascinated by the space program and
expressed a desire to be an astronaut from a very early age as I did actually although we differed in our attitude towards airplanes for me airplanes didn't go fast enough for high enough I just dreamed about rockets but for beau airplanes seemed like the best route to space and so he enrolled in and graduated in the first class of the then-new Air Force Academy in Colorado Springs a life-altering side effect of this decision was his proximity to Denver which led to his meeting and eventually marrying Diane a
happy marriage which is still thriving

615
00:33:25,829 --> 00:33:32,279
led to two wonderful children Paul and Michelle

616
00:33:28,170 --> 00:33:35,220
Michelle and Paul both talk of how beau always shared his experiences with his whole family he wanted them to enjoy as much as he did some of the pleasures that he was having while training and flying Diane knew from day one that both someday wanted to fly in space and she supported him all the way and sure enough after six years of active duty in fighter squadrons he made his way to Edwards and that was great timing because that's just when the Air
Force was selecting astronauts for their manned orbiting laboratory program and beau was selected in the second group of mol astronauts becoming the first Air Force Academy graduate to be selected as an astronaut but mo L never flew never made it to orbit so bow and his MO L cohort came to NASA at the peak of the Apollo program the problem was NASA wasn't quite sure what to do with bow so for safekeeping they decided to lock him up in a tin can for a month now NASA officials assure us that this was not as a punishment for anything he had done.
rather it was to see how he bob crippen

and Bill fortin would make out in a

simulated Skylab mission known as smeet

actually the Russians are still doing

this only they lock people up for 500

days instead of just a month so I

suspect that bow is probably happy that

he was born in New York and not in

Moscow but it turns out that Moscow was

actually next on bo's dance card as

support crew for apollo-soyuz and the

Russians taught him a lot about survival

tactics how to make it through evening

after evening of vodka toasts and then
be ready for action the following morning well he survived and finally did get assigned to us for a space flight as you heard as pilot of STS 6 the maiden voyage of challenger thus becoming the first Air Force Academy graduate not only to be selected as astronaut but actually to fly in space fulfilling his long-held dream and following that he was named as a commander of a flight which originally was supposed to go in june of 1984 leading a team of four rookies Don Williams Dave Griggs Rhea Seddon and
myself and I'm really sure that the

hardest part of this command for bo was

being outnumbered by two Navy pilots who

early in training presented him with a

book of naval traditions and regulations

and regularly quizzed him on it to make

sure that he was learning I have to say

he was a good sport well those were the

days of mission delays cancellations of

crews being reassigned to different

payloads getting different shuttles and

we experienced this in spades frankly

the story of how our crew progressed

through four different flight

assignments bounce back and forth
between two orbiters acquired three different payload specialists would take much too long I'll just say that by the time we finally launched on April twelfth of 1985 and by the way I'll remind you April twelfth is not just the anniversary of Yuri Gagarin's flight and of John Youngs and Bob Griffin's flight on Columbia that was the auspicious day when Bo led us into space anyway by the time we finally launched we had sent out 26 different letters to our launch guests updating them about when and with what orbiter and on what mission we
might finally fly well we have an engineering leadership program at MIT and I often use bow as an example of good leadership when I give lessons to my students let me give you an example one of the more difficult times in our training was after the pad abort of June of 1984 and that led to the console a consolidation of the June and August commercial satellite payloads by that time we had slipped to the August flight but they scrubbed the Spartan satellite which we had been planning to deploy and rendezvous with and retrieved and they...
scrubbed us as well reassigning us to an

i us Tigres deployment the following

January which was a pretty long wait and

a big blow particularly for those of us

who hadn't phoned before

and here's where Bo's personal qualities

as a leader really came into play

because as I said we were kind of
demoralized at that point and what was

Beau's response hey guys let's party and

that's typical of bo not that he's a

party animal not exactly not for those

of them know and well no the point is

beloved Space Flight he wanted everyone
working with him to enjoy it as much as

he did and he knew from experience that

despite delays a first flight is worth

waiting for and he did everything he
could to help our morale he enjoyed

flying so much his family has told me

ey could actually judge how close he

was getting to a flight because the

smile on his face kept getting bigger

and bigger and bigger so anyway in april

of nineteen eighty-five we were finally

ready to go on sts 51 d and it turned

out to be a pretty exciting flight with

any unexpected events and i just want to

describe two of them which will allow me
to tell you a little bit about what it was like working with Bo as a commander.

Bo is cool under pressure and I saw this on numerous occasions the first of which was right after main engine cutoff we had been asked to try a new way of dumping the residual hydrogen through the fill and drain valve which could potentially do a dump faster than using the normal techniques and for any of the PLT's here I hope I got that right main engines were never my specialty but I try anyway right after ET separation Don Williams opened the valves which caused
a huge role moment because the dump didn't go through the cg through discovery about 90 degrees out of attitude led to almost constant firing of our attitude control jets and people who have experienced these know how loud they are I mean I was a rookie down on the mid deck and I thought I was in the middle of an artillery barrage down there Don's voice from up on the flight deck seemed about an octave higher as he asked Bo quickly should we shut the valves Bo just said perfectly calmly now let's leave them open and see what
happens well of course we we survived...

and and I think we succeeded in...

demonstrating that this was maybe not an...

now our mission as planned was pretty...

simple we were going to deploy two...

satellites do a few medical experiments...

and come home after four days I don't...

know Bo you may have some special karma...

about satellites I mean the first just...

dress which you guys deployed on your...

first flight didn't get to the proper...

orbit the second tea dress that was...


going to be launched which would have

been the third of our assigned flights

the previous January had a problem it

was still on the ground and now even

though our first satellite worked okay

we deployed the second satellite and it

never turned on so I don't know but it

sure turned out to be a lot of fun

because Mission Control came up with a

really neat plan by which we would

manufacture some special tools

resembling fly swatters after which Bo

became known as the leader of NASA's

SWAT team then we would do an e VA a

spacewalk to attach them to the remote
manipulator arm and then finally rendezvous with the sim comm satellite to flick a possibly malfunctioning switch on this spinning satellite now the problem was that NASA had never before done a completely unplanned EV a the arm had never been used for anything remotely like this and most important it had been 10 months since we had ever done any rendezvous practice I mean we didn't even have a rendezvous checklist on board and so they had to transcribe the entire checklist send it up to us by teleprinter we ended up with a 20 foot
long yellow rendezvous scroll basically

which bow and don williams had to cut up

into page size pieces and pasted into

our post insertion checklists and I

still treasure the image of Bo and Don

pasting together this this checklist and

of course I also cherish the memory of Bo helping me into my space suit so it was quite an adventure and it was

nearing the final phases of rendezvous

when Bo taught me another lesson in leadership I was helping bow and Don as

the rendezvous navigator back in those days things were a bit more primitive
than they are now and one of the primary ways in which we determined how far away a satellite was was to measure the size of the satellite on the TV screen and that was my job but I have to admit that we saw this huge satellite floating motionless outside the shuttle I mean I had never imagined anything like this and and I got sort of lost in a state of reverie when all of a sudden I heard a soft voice calmly asking I can't understand why nobody is giving me range calls I mean no shouting no panic no nasty
language just the cool voice of

00:42:37,260 --> 00:42:42,180
authority that brought me back that's

00:42:39,630 --> 00:42:43,769
the way to lead and we all appreciate

00:42:42,179 --> 00:42:46,109
and that's the image of both at I'll

00:42:43,769 --> 00:42:47,449
never forget because I mean there we

00:42:46,110 --> 00:42:50,430
were doing something we had never

00:42:47,449 --> 00:42:53,309
anticipated for which our last training

00:42:50,429 --> 00:42:55,679
was almost a year out of date and yet bo

00:42:53,309 --> 00:42:57,869
was calmly looking out the window flying

00:42:55,679 --> 00:42:59,849
discovery with great skill as though we

00:42:57,869 --> 00:43:03,660
had rehearsed this many many times and

00:42:59,849 --> 00:43:05,880
keeping a cool head throughout well Bo

00:43:03,659 --> 00:43:07,559
had one more flight after 51 d but it

00:43:05,880 --> 00:43:09,240
was a military flight so I can't tell

00:43:07,559 --> 00:43:11,099
you a whole lot about it other than that
was the maiden voyage of Atlantis which

made it the second inaugural shuttle flight that Bo was on and that was his final shuttle flight Diane tells me that one of the saddest days of Bo's life was when he had to clean out his flight locker at Ellington because both so loved to fly and of course it's hard to say goodbye but Bo has continued to serve the space program both in Houston and now in California where he's in charge of the simulators at NASA Ames flying simulators may not be as exciting as flying airplanes or space shuttles.
870 00:43:41,670 --> 00:43:47,099 but Bo loves technical challenges and he
871 00:43:44,400 --> 00:43:50,369 continues to be a fine team leader and a
872 00:43:47,099 --> 00:43:51,929 fine person bo we are truly delighted to
873 00:43:50,369 --> 00:43:55,309 welcome you to the astronaut Hall of
874 00:43:51,929 --> 00:43:55,309 Fame congratulations
875 00:43:55,309 --> 00:44:02,719 all of a metal
876 00:44:27,579 --> 00:44:36,548 thank you Jeff I think the 50th
877 00:44:34,659 --> 00:44:38,379 anniversary of human space flight has
878 00:44:36,548 --> 00:44:42,748 caused me to look back on my own career
879 00:44:42,748 --> 00:44:47,169 in aerospace it's been about 50 years
880 00:44:47,169 --> 00:44:52,119 when the first satellite was launched I
881 00:44:47,170 --> 00:44:50,140 was a cadet at the Air Force Academy and
882 00:44:50,139 --> 00:44:52,119 my instructor said it's not going to be
883 00:44:55,659 --> 00:45,659 very long before people start to fly in
884
space it was at that time that I decided

I wanted to be one of those space explorers when the first man did fly I

was finishing my training and just entering the operational Air Force as a fighter pilot my wife says that whenever I had a chance i selected the path towards getting into space in those days the Air Force was anxious to get people in space they even call the test pilot school the aerospace research pilot school it was not long before the Air Force had hopes of flying dinosaur and then the manned orbiting laboratory as
Jeff has already spoken to you about landing on the moon. I was selected as one of those moon crew members until the program was canceled. Fortunately, seven of us moon people were picked up by NASA as astronauts. Of course, there were times I didn't think it was fortunate because they were canceling the Apollo program flights. They kept moving to the right, and the closest I got to flight in those early days was with the Skylab medical experiment, which you've already heard about. The only difference is it was two months not available.
just one month I can remember Bill Thornton who was a medical doctor calling out our out to our flight surgeon who was outside and telling him how he was noting strange behavior bill ticked off a list of items you could and you could hear the flight surgeon get more and more excited finally the flight surgeon couldn't ask that stand it anymore in ask bill okay tell me which one of the crew was having problems the answer was it wasn't insights meet it was the management committee on the outside I also worked
with the Russians as Jeff mentioned I remember this was at the height of the Cold War I can remember walking across red square one night when with Bob overmyer and he said you know Bo I never doubted I'd be here I just thought it would be at 200 feet and full afterburner the job that did require some flying was the shuttle approach in landing tests Bob obermeyer and I alternated between being Capcom and the prime shuttle chase being next to the shuttle as it flew off the top of the 747 really was quite a sight and being
with England truly as they prepared for a flight was quite an experience as an example they had China and candelabra not paper plates and plastic forks on their breakfast table before the flights between these various tasks I have described they worked on space shuttle development especially on approaching landing rollout in Auto land that auto land development experience probably was partially responsible for our crew getting the detailed test objective of flying the auto land our motto was Specter mater Nellis manas which means
look ma no hands I don't know what it

was fortunate or not but that DTO was

cancelled and so we never did the auto

land one day John Young came to my

office and he pulled on my sleeve and

said he would like me to take a small

group of folks and go to KSC to help

them get Columbia ready for flight we

would work with the countdown working

group help decide what testing should be

performed and then participated in a

testing serve as a liaison between the

astronaut office and the shuttle

activities that were taking place at the

cape and do whatever was necessary
to be done down there John said there would probably be quite a bit of travel for a couple of months actually there was quite a bit of travel for a couple of years when they were trying to get Colombia ready to flight when Colombia flew from palmdale to KSC quite a few tiles came off that meant all the tiles were questionable and needed to be tested it was a year before they were pasting more tiles back on the shuttle before they were taking tiles off of the shuttle but it wasn't only the tiles the first time Columbia was powered up
gave Dick Scobee the honor of being in a cockpit for the power up Dick was there for the call to stations at 8am the test started a little later and he was still there when I came to relieve him the next morning at 6am the problem was I couldn't get Dick out of the cockpit until he had thrown at least one switch we had a lot of learn a lot to learn in those days the tiles were were just the item that was taking the blame I made a graph which showed how long would be to lunch and as we progress through time the time to launch kept getting longer
and you know I couldn't I could hardly understand it I thought I was a cosine wave in a sine wave world just out of phase with everything that was going on finally after 13 years there were my three flights I won't try to describe spaceflight to this groups since you are one of the few groups and in the world who really understand what it means my first flight was exciting for me since space was a new environment and there were so many new items to see and do the second flight was challenging since we were asked to perform an unplanned DBA
rendezvous and activities with the robot

00:50:53,480 --> 00:50:59,079
arm which jeff has already told you

00:50:55,699 --> 00:51:01,639
about my third flight was enjoyable

00:50:59,079 --> 00:51:03,199
since by then I was familiar with flying

00:51:01,639 --> 00:51:05,449
the shuttle and was an experienced

00:51:03,199 --> 00:51:08,358
commander I could tell you more about

00:51:05,449 --> 00:51:09,949
exactly what happened on that flight

00:51:08,358 --> 00:51:13,759
I not have to shoot just since it was a

00:51:09,949 --> 00:51:19,460
military flight and of course all space

00:51:13,759 --> 00:51:21,519
flight is beautiful and inspiring it all

00:51:19,460 --> 00:51:24,409
didn't end with my last space flight I

00:51:21,518 --> 00:51:26,719
was in my office one day when PJ whites

00:51:24,409 --> 00:51:29,170
the commander my first call my first

00:51:26,719 --> 00:51:32,480
flight called me on the phone and said

00:51:29,170 --> 00:51:35,630
Bo we are going to open a new towel site
which is transatlantic abort site for

the coming mission I said to him PJ tell me who's going when is he going and how long will he stay his answer was you tomorrow and I don't know that started me looking at emergency sites over Africa and equipping all the shuttle landing sites with the right equipment after I left NASA in the Air Force and joined the aerospace industry I have been working with the shuttle and station programs for quite a few years I still have an enjoyable job again as Jeff mentioned I am the program manager
for the contract which maintains and operates the research simulators at the named NASA Ames Research Center we have had simulations of rendezvous and docking lunar landing and entry in the space arena and lots of aircraft in air traffic control simulations when I was recalling the things that I have done I also recalled the people I worked with the people who had helped me along the way and the people I looked up to with me that started with an 8th grade teacher who helped me get into a good technical high school she and her
husband offered to let me live with them
so that I would be in a proper school

of the people in this audience helped me
along the way your help and
encouragement have been instrumental in
my standing here today to receive the
honor of being inducted into the
astronaut Hall of Fame I decided I
wouldn't read off long list the name
but I must add one and that's my wife
Diana 50 years who followed and
supported
she has followed me and supported me
through all this even before we were

00:53:44,599 --> 00:53:53,630
married so I humbly accept this honor as

00:53:49,909 --> 00:53:58,480
I recognize all of people who are also a

00:53:53,630 --> 00:53:58,480
part of this great adventure thank you

00:53:59,860 --> 00:54:06,019
congratulations congratulations Carol Bo

00:54:03,920 --> 00:54:09,670
Bob go and welcome to the United States

00:54:06,019 --> 00:54:09,670
astronaut Hall of Fame

00:54:15,829 --> 00:54:19,829
you know Jeff Hoffman was telling me the

00:54:18,210 --> 00:54:23,369
story today can you imagine they're

00:54:23,369 --> 00:54:27,839
coming in on landing and Hoffman say you

00:54:25,409 --> 00:54:27,839
know the flights over this is great no

00:54:25,409 --> 00:54:31,170
problems we're back on earth and then

00:54:27,840 --> 00:54:32,850
all of a sudden boom and the landing

00:54:31,170 --> 00:54:37,260
gear blows is like you know on the eyes

00:54:32,849 --> 00:54:39,960
go what happened here but again as you
00:54:37,260 --> 00:54:45,540
mentioned cool as a cucumber no problems

00:54:39,960 --> 00:54:51,360
right Carol our second inductee today is

00:54:45,539 --> 00:54:56,009
Lieutenant General Susan Helms Helms has

00:54:51,360 --> 00:54:58,170
logged 5064 hours in space and holds the

00:54:56,010 --> 00:55:01,560
world record for the longest spacewalk

00:54:58,170 --> 00:55:04,260
at eight hours and 56 minutes I got that

00:55:01,559 --> 00:55:06,480
right right she's a veteran of five

00:55:04,260 --> 00:55:08,370
Space Shuttle missions from march to

00:55:06,480 --> 00:55:11,190
august two thousand and first helms

00:55:08,369 --> 00:55:13,949
became the first woman to live and serve

00:55:11,190 --> 00:55:16,920
aboard the International Space Station

00:55:13,949 --> 00:55:19,109
as a member of the expedition to crew

00:55:16,920 --> 00:55:22,650
during that mission Helms and her crew

00:55:19,110 --> 00:55:25,579
welcomed the first space tourist after a
12-year career with NASA that included 211 days in space Helms returned to the United States Air Force in July 2002 in January of 2011 she became commander of the joint functional component command for space and 14th Air Force let’s take a look now at some highlights of her career tonight spacewalkers as it helps on the left jab boss on the right soon to become space station crew members dirty Ella to present Susan Helms for induction into the United States astronaut Hall of Fame.
Fame please welcome Hall of Fame astronaut and NASA Administrator Charles Bolden thank you John thank you welcome probably the happiest person here right now at least based on the look on his face is Susan's dead over there it's incredible watching him as we go through this ceremony it's um it's an incredible honor for me this afternoon to introduce to you one of my heroes Lieutenant General Susan J Helms United States Air Force John's already told you much about her official Air Force and NASA careers selected by NASA in January nineteen
ninety susan became an astronaut in july

1127
00:58:56,010 --> 00:59:07,770
1991 she flew on sts 54 and 93 sts 64

1128
00:59:01,820 --> 00:59:09,360
1994 sts 78 1998 sts 101 2000 and served

1129
00:59:07,769 --> 00:59:11,880
aboard the International Space Station

1130
00:59:09,360 --> 00:59:15,450
as a member of the ISS expedition to

1131
00:59:11,880 --> 00:59:18,539
crew in 2001 a veteran of five flights

1132
00:59:15,449 --> 00:59:20,819
she's logged over 5,000 hours in space

1133
00:59:18,539 --> 00:59:24,000
including a world record EV a of eight

1134
00:59:20,820 --> 00:59:26,130
hours and 56 minutes as John just talked

1135
00:59:24,000 --> 00:59:27,869
about her incredible talent and

1136
00:59:26,130 --> 00:59:31,800
leadership ability became quite evident

1137
00:59:27,869 --> 00:59:34,409
to me during her first flight STS 54 on

1138
00:59:31,800 --> 00:59:35,970
which she served as an IV or in tow

1139
00:59:34,409 --> 00:59:37,679
vehicle er crew member with

1140
00:59:35,969 --> 00:59:41,149
responsibility for overseeing the
conduct of the spacewalk on that flight

having trained as an IV crew memon

crewmen myself I watched in awe as she

set the standard for IV crew members by

the manner in which she perfectly and
deftly choreographed the spacewalk under

her direction we learned many lessons

that would prove later prove key to

construction of the International Space

Station but enough of the technical side

of Susan let me share with you some of

the jewels of her life from family and

Susan enjoys piano and other

musical activities jogging traveling
computers & cooking although Susan will
tell you she doesn't have time to cook
anymore I remember when she checked into
the astronaut office she joined the band
max Q singing lead vocals and playing
keyboard and I'll have to tell you for
anyone who's ever heard max Q her
addition to the band really helped bring
them into the realm of playing real
music Susan is one of four sisters
daughters to retired US Air Force
lieutenant colonel Pat and Dori Helms
who reside in Albuquerque New Mexico the
hall of fame class of two thousand one
is not only an all Air Force class in

case you didn't notice it but it

consists of two members who can claim

firsts from the United States Air Force

Academy in Colorado Springs baba biko as

you've already heard was a member of the

first graduating class of the Academy in

1959 and susan was one of 97 women to

survive from a class of a hundred and

fifty seven women to graduate from the

US Air Force Academy in 1980 the first

class to ever graduate women from the

Academy

to her mom and dad jorian Pat
Helms and this is a quote Susan is the

1184
01:01:38,639 --> 01:01:44,730
oldest of four daughters and was well

1185
01:01:41,159 --> 01:01:48,838
behaved quiet child she taught herself

1186
01:01:44,730 --> 01:01:50,730
to read early and Dory says I think the

1187
01:01:48,838 --> 01:01:53,820
dr zeus books and other books that were

1188
01:01:50,730 --> 01:01:55,409
being read to her helped but she was six

1189
01:01:53,820 --> 01:01:57,930
when I first took her to a public

1190
01:01:55,409 --> 01:01:59,279
library I remember her standing in the

1191
01:01:57,929 --> 01:02:03,179
middle of a room full of books and

1192
01:01:59,280 --> 01:02:06,359
asking me two questions how many books

1193
01:02:03,179 --> 01:02:08,969
may I take home and when I've read all

1194
01:02:06,358 --> 01:02:12,630
the books in this room may I start over

1195
01:02:08,969 --> 01:02:15,449
as a teenager her main extracurricular

1196
01:02:12,630 --> 01:02:17,130
interest were in the music field Susan

1197
01:02:15,449 --> 01:02:20,098
was a percussionist in the band and a
pianist for the swing choir however in
the fall of her senior year she read in
the October 1975 Parade magazine that
they had opened the US Air Force Academy
to women and decided she wanted to apply
it was okay with her mom and dad though
somewhat of a surprise she had the
grades in the leadership skill but
according to them she really wasn't a
jock she just told us or told them that
she would need to get in shape and that
she did her father Pat who took on the
task recalls that her first mile of
running took 16 minutes that's pretty
good for me I don't know about the rest

of you

I would love to have a 16 minute mile

today but when the time arrived for the

necessary physical test in January she

was doing an eight-minute mile and that

day did her first ever pull up hearing

this story of Susan's conditioning makes

it easier for me to understand the story

told to me by her sister Nancy as the

story goes and this is a quote while

visiting her family in 2004-2005 Susan

asked if we minded if she took our dog a

beagle named radar then six years old
out for a jog of course we agreed my husband and I laughed and laughed while they were gone about whether Susan would be able to keep up with the dog about 40 minutes later Susan and radar returned from their run and we asked how it went in typical Susan fashion she said fine well apparently radar I had a different story he returned from the run and lay down on his bed radar didn't wait didn't get up for two days we had no idea that Susan was so fit she outran the dog now I personally love this story of radar and I must admit that it ended much much
better than I ever imagined as I was reading it because every time I knew

Susan she was always in really good shape and so while we were in the astronaut office together as I was reading the story I expected to read that that Susan would return holding the dog's dying body in her arms after she had run it into the ground the good thing is the story ended a lot better than that Susan with Mother's Day coming up tomorrow your mom wanted me to add how special it was when you once wished her happy mother's day from space she also says I'll cry here she also says
one of the biggest surprises of her life

was during your space walk in March on

March 11, 2001 when you paused and wished

a happy 68th birthday in her words and I

quote doesn't get any better than that

Susan continues to amaze us and we love

her dearly sister Margie Helms

carriage also reflects on what a very

talented musician you are she told me of

the day when you were kids and your dad

took the four girls to the movie Young

Susan sat down at the piano and started

to play the music from the movie by ear
I thought to myself that's just not normal she was also the piano player in the debonairs her high school musical ensemble and she loves the show Glee also Susan Janet Nancy and I are very close and in some combination have traveled quite a bit together over the years many trips to Las Vegas without the husbands and kids several trips meet trips to meet in Paris lots of trips to New York City but the first trips were with my parents traveling across the United States as dad went to helicopter training before his time in Vietnam
Dorie you will need to tell Margie that he was actually going to be 52 training just a little difference Margie continues we took our big green station wagon and drove from Massachusetts to California stayed for months in return we have many family memories along the way sister Nancy stutzman tells at the time Susan was living on the ISS when Dennis Tito the first space tourist that you've already heard about was preparing to go to space there's quite a bit of political commentary about it down here on earth as to whether it was a good
idea should the Russians be allowed to

sell seats on the saw use it was all

over the news Nancy says Susan was on

station and so she didn't have access to

the plethora of news commentary so she

asked her how she felt about Dennis Tito

coming to space Nancy says she'll never

forget Susan said while I'm living on

the space station if anybody knocks at

the door we're inviting them in

sister Janet Helms Hanson reflects and

this is a quote I just want to emphasize

how much as a family we enjoy each other

my parents instilled in us at a very

young age how important family is we
have all made an effort throughout the years to be at Susan's many accomplishments however on the flip side susan has also made efforts to be at our accomplishments as well she's a wonderful sister and a wonderful friend there's a saying that you can choose your friends but you can't choose your family I think all of us would choose each other as friends and family from talking with your family members Susan one thing is very very clear they all break how amazing a person you are most of all how amazing you make them all
feel they are to you I'll just share one

more a few more thoughts before I sit
down from one of your dear friends Lisa
Reed who has to take credit for training
both of us Lisa is here to celebrate
with you and your family this very special weekend according to Lisa Susan
was a standout even as a new ask an astronaut candidate that's the term and
and she had this reputation for coming
into training having done all her prep
work or homework and came to the and I'm gonna give you some acronyms here okay
the SST SMS SES and mdf it's the single
system trainer shuttle mission simulator

shuttle engineering simulator and the manipulator development facility get him

right she always came into those sessions armed with knowledge and lots of pointed questions the instructors appreciated her preparation but many times we were the ones who left with crew questions to answer and get back to her so it's fair to say that while she was a student her instructors ended up learning more from all the questions they researched Susan spent years off and on traveling to Russia to train for
ISS mission and learning Russian

1355
01:09:23,569 --> 01:09:27,830
language many people never saw her

1356
01:09:25,939 --> 01:09:30,048
dedication to preparation for this

1357
01:09:27,829 --> 01:09:31,670
mission the expedition to

1358
01:09:30,048 --> 01:09:34,278
training schedule was fully packed with

1359
01:09:31,670 --> 01:09:35,809
little room for studying Russian she

1360
01:09:34,279 --> 01:09:37,339
would set the alarm and get up at

1361
01:09:35,809 --> 01:09:39,949
three-thirty to get her Russian language

1362
01:09:37,338 --> 01:09:43,068
study time in by the time she flew she

1363
01:09:39,948 --> 01:09:45,769
was pretty fluent Lisa also relates that

1364
01:09:43,069 --> 01:09:49,039
Susan loved her time on the ISS but

1365
01:09:45,770 --> 01:09:51,319
being a rabid x-file fan she fretted

1366
01:09:49,039 --> 01:09:53,179
over how she was going to get to see the

1367
01:09:51,319 --> 01:09:58,489
episode she would be missing weekly

1368
01:09:53,179 --> 01:10:00,469
while on board luckily for her her
support team was able to record them and

when either a shuttle or progress

mission was there she relished the

chance to watch all the episodes at once

and then trade emails with her ex file

fans friends watching on earth this past

June January two thousand eleven is as

as John has already said Susan Helms was

promoted to lieutenant general and

assume duties as commander 14th Air

Force Air Force Space Command and

Commander joint functional component

command for space US Strategic Command

with this milestone in her life this
daughter of a career Air Force pilot

lieutenant general Helms became the

first woman and astronaut to take

command at Vandenberg Air Force Base

ladies and gentlemen

ladies and gentlemen it's my honor and

privilege to present my hero and my

friend lieutenant general Susan Helms

and now the presentation of the Hall of

Fame medal

boy Charlie you really got to be there

uh that is some real research and I you

know I can take you all don't know this

but there's a television that's behind
this table up front and we can see what

I know my hair is all over the place but

then I thought you know in space it was

probably appropriate I just can't

control it but in any case I'm going to

take a page from bill's book bill said

that it takes thousands to build a space

shuttle program and I'm going to tell

you that it takes thousands to build an

because there's not much more to say is

to just thank the people that basically

got me here in this point of recognition

which by the way I'm so very thankful to

the foundation and the committee for

picking me for this it truly is a

humbling honor and I admire all

of you so very much it is quite surreal

to stand up here among these giants on

the stage and the others who are part of

them that aren't here today and to be

welcomed into this it is kind of a

speechless moment really and I want to

thank all of you it's up on your

shoulders of course that we are all

standing in our in this younger

generation I'm a part of but we would
not be where we are today in space

without all of you doing what you have done so please a round of applause for

all of you

and and that was my first thank you I I will give you my next one I will name a couple of names I when I was a kid I loved math and science and i love the air force and of course you're all probably wondering joining the Air Force probably wasn't it was a no-brainer but the question was what about the astronaut part and so I would like to thank dick cubby who isn't here today
but when you think of who it was that probably got me really sparked to go ahead and put my application in for the program it was him he actually came up to me and said why don't you apply to the program and that until that moment till he said that I didn't ever think I would be competitive for the program and so because of him I really did get incentivized to go ahead and submit my application and little-known to me he was on the selection board when I when I showed up a few months later he was one of 12 he didn't have the only vote but
Charlie you were on that selection board

to if I recall it was a it was a fun

one that sort of got this ball rolling

and when we showed up the senior

astronauts by that time they were there

were a few folks left from the Apollo

program but they were primarily the

shuttle astronauts at the time I got

there in 1990 and and I have to thank

them they set basically a standard of

excellence in all that we do and nowhere

was that more evident in how they tried

to mentor us younger astronauts as we

1:14:23.289 --> 1:14:28.539
1:14:25.300 --> 1:14:31.840
1:14:28.539 --> 1:14:33.399
1:14:31.840 --> 1:14:36.369
1:14:33.399 --> 1:14:38.769
1:14:36.368 --> 1:14:40.118
1:14:38.770 --> 1:14:41.860
1:14:40.118 --> 1:14:43.750
1:14:41.859 --> 1:14:46.389
1:14:43.750 --> 1:14:48.789
1:14:46.389 --> 1:14:52.449
1:14:48.789 --> 1:14:55.510
1:14:52.448 --> 1:14:57.759
1:14:55.510 --> 1:14:59.739
1:14:57.760 --> 1:15:02.199
got ready for the shuttle flights then

01:14:59,738 --> 01:15:04,809
then to think back on my rookie flight

01:15:02,198 --> 01:15:06,399
with my crew members who are all not

01:15:04,810 --> 01:15:08,830
rookies one of whom was here today Don

01:15:06,399 --> 01:15:10,569
mcmonagle and if any of you know Don

01:15:08,829 --> 01:15:13,569
mcmonagle you'll know that he is a man

01:15:10,569 --> 01:15:15,158
of perfection and knows what the

01:15:13,569 --> 01:15:17,289
standard really is in order to do this

01:15:15,158 --> 01:15:18,609
kind of business and and so all of the

01:15:17,289 --> 01:15:21,579
astronauts who were in the office

01:15:18,609 --> 01:15:23,049
mentoring us new folks and Don you and

01:15:21,579 --> 01:15:25,210
the rest of the folks in 54 that

01:15:23,050 --> 01:15:26,949
mentored me on that's what really drove

01:15:25,210 --> 01:15:28,989
me to come into the training team and

01:15:26,948 --> 01:15:31,359
ask all those hard questions was
the astronauts behind me on my crew

saying this is the level you have to

know things and now let's see if you can

figure out if the training team knows

them too so it was a it was a great a

great dynamic to be a part of the

training teams I'll mention them that

they're part of the thousands it takes

to build an astronaut you meant you

already heard that Lisa Reed is here

today there are other folks I'm sure in

the audience that are here today the

training teams very thankless job

they're dealing with the astronaut prima
donnas that we are everybody thinks it's
all about us it's not it's about the
program and it's about the great
adventure but the the reason that we
look so good at what we do is because we
were trained that way and so the folks
who do all of the payload integration
all of the work with us to interface to
the Space Shuttle all of the training
for us they're the ones that that do
build us into what we are and make us
look good and so I want to thank all of
the folks who were a part of that I do
have to throw in a thank you to hook
Gibson he's the one that really was the impetus of me joining max Q and it and so who now I know why thought it would raise the level of the band that was what mattered but he he was he was definitely with the other max Q band members and through including Carl waltz my dear friend basically they they showed what it meant to not only work hard but to play hard and so I think max Q was one of those things in the astronaut band where that was our way of after working so very hard we just got together and we played music together
and that was playing hard to and the the

1526  
01:17:09,460 --> 01:17:16,000
by product that we were actually able to

1527  
01:17:11,439 --> 01:17:18,759
book a few gigs was was a neat byproduct

1528  
01:17:16,000 --> 01:17:21,210
but when I look back on it I think that

1529  
01:17:18,760 --> 01:17:22,930
we're when you're an all astronaut band

1530  
01:17:21,210 --> 01:17:29,409
everybody's going to tell you you're

1531  
01:17:22,930 --> 01:17:31,750
playing pretty good and so so I always

1532  
01:17:29,409 --> 01:17:33,579
wondered about that after but it was a

1533  
01:17:31,750 --> 01:17:36,489
great it was a great thing to be a part

1534  
01:17:33,579 --> 01:17:38,739
of and and of course who kind of hand in

1535  
01:17:36,489 --> 01:17:40,539
that as well as the others and and then

1536  
01:17:38,739 --> 01:17:42,819
I I do have to mention Bob Cabana

1537  
01:17:40,539 --> 01:17:44,800
because after flying several flights you

1538  
01:17:42,819 --> 01:17:47,380
know the office does the flight

1539  
01:17:44,800 --> 01:17:49,800
assignments and then this this moment
came where I was no longer a part of

amateur program at that point in the 90s
called the Space Shuttle but me and a
few others were basically identified by
Bob Cabana who was chief of the office
at that time to go do what astronauts
need to do at times which is to go and
start up a new space program a lot of
the folks you see here they were part of
the early days of the shuttle program
and the moon program and in its God's
case even earlier and and me and a few
others were selected to be a part of the
space station program and Bob made that
choice and at the time we didn't know it

but I've told him the sense it was one of the most amazing things I've ever had the chance to do which was to be a part of a space outpost in space that truly was a human adventure that has no equal and I I want to thank Bob for making that decision to put me in a few others in that position we worked hard to get that program stood up and operating in the right way and I think we succeeded but but that leads to my final thank yous and that's those folks that I basically flew with all of the
crew members that I flew with I drew

more from them than they ever drew from

me and and and frankly I think the

reason I'm standing here before you

right now was because of all the the

love and support of the fellow members

of my flights that I flew with and the

tools that basically made us all become

as as as good as we were and then that

there's course one obvious thank you i

haven't mentioned yet and that's my

family i'm debating whether to think now

thank them now after what Charlie said

but but the bottom line is every
everything that they've said has been

1583
01:19:36,420 --> 01:19:41,050
bringing me to tears just thinking about

1584
01:19:39,039 --> 01:19:43,180
it but it is true what he said certainly

1585
01:19:41,050 --> 01:19:45,940
which is that my family means everything

1586
01:19:43,180 --> 01:19:48,250
to me my mom my dad my three sisters and

1587
01:19:45,939 --> 01:19:51,599
all of my extended family

1588
01:19:48,250 --> 01:19:55,180
um and that when i was on Space Station

1589
01:19:51,600 --> 01:19:56,560
those many months and I remember

1590
01:19:55,180 --> 01:19:58,420
thinking I've got to be in one of the

1591
01:19:56,560 --> 01:20:01,060
most amazing places a human being can

1592
01:19:58,420 --> 01:20:03,579
ever be and this really grand adventure

1593
01:20:01,060 --> 01:20:08,380
looking at Earth which is so very very

1594
01:20:03,579 --> 01:20:10,119
beautiful from afar it really I it hit

1595
01:20:08,380 --> 01:20:13,720
me at that point that if you don't have

1596
01:20:10,119 --> 01:20:16,449
family and keep tied to family it really
doesn't mean all that much and so I want
to thank my family always for being
there and supporting me because truly

I'm who I am because of who you are so
thank you very much and again thanks

very much to the committee and the
foundation for honoring me it truly is a
humbling moment for me and I nothing
in the bottom of my heart nothing will
will surely be able to be said that that
tells you how much this means thank you

congratulations Susan Helms and welcome
to the United States astronaut Hall of
Fame ladies and gentlemen i am proud to
present to you the United States astronaut hall of fame class of 2011

Carol bow bobko and Susan Helms

now all the members of the United States astronaut all of faith

it's your photo op time

as you're taking your pictures it has been my pleasure to be with you today

and on behalf of the kennedy space center visitor complex and the astronaut scholarship foundation thank you for joining us for this historic ceremony

please remain standing as the Hall of Fame astronauts finished these pictures
and then make their grand exit