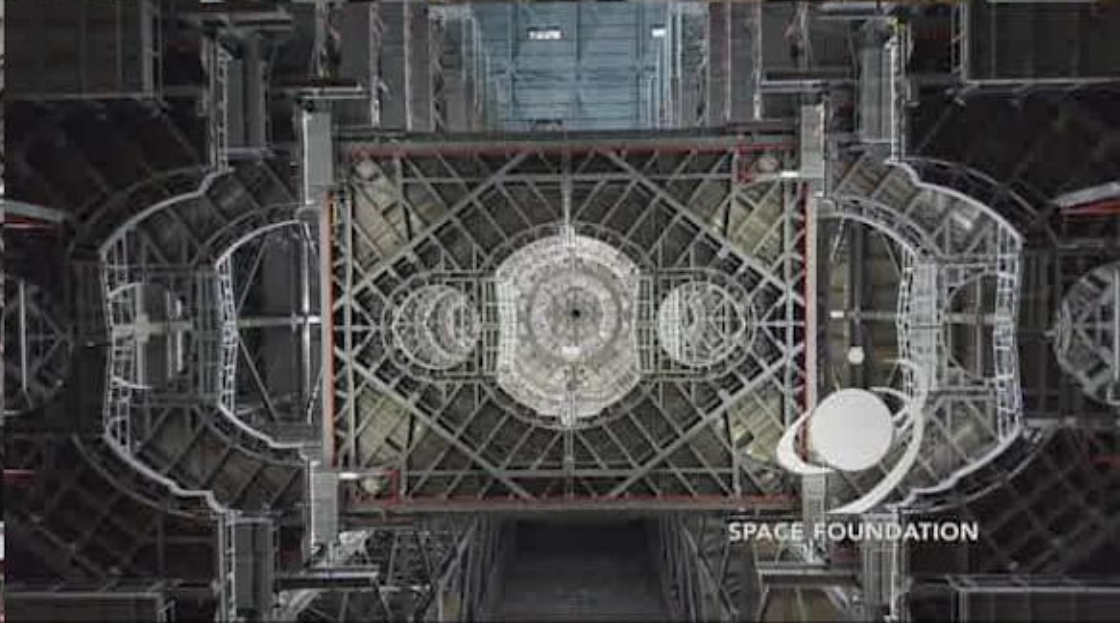


Now - VAB - 346 feet to Highest Platform

A-North installed 1.12.17



1

00:00:09,670 --> 00:00:15,180

The strong NASA presence at this year's symposium is clearly represented in our next panel,

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00:00:15,180 --> 00:00:21,580

where we have gathered six center directors who are leading NASA at a time of transition.

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00:00:21,640 --> 00:00:26,300

And to lead the discussion, we welcome Dr. David Livingston, the founder and host of

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00:00:26,310 --> 00:00:27,630

The Space Show.

5

00:00:27,630 --> 00:00:29,900

Dr. Livingston, we look forward to your panel.

6

00:00:29,900 --> 00:00:35,519

Dr. David Livingston: Thank you very much, and thank you also to the Space Foundation

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00:00:35,519 --> 00:00:37,449

for making this discussion possible.

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00:00:37,449 --> 00:00:39,360

We really appreciate it.

9

00:00:39,360 --> 00:00:45,710

And I'd like to introduce our panel members today for the center directors' discussion,

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00:00:45,710 --> 00:00:47,070

in a time of transition.

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00:00:47,070 --> 00:00:54,330

So, Robert Cabana from Kennedy Space Center, we will have a five-minute opening statement

12
00:00:54,330 --> 00:00:57,550
from each one about transition at their center.

13
00:00:57,550 --> 00:01:02,559
Robert Cabana: So the Kennedy Space Center
is the poster child for change during a time

14
00:01:02,559 --> 00:01:04,159
of transition.

15
00:01:04,159 --> 00:01:09,630
In the last six years, we have evolved to
be America's premier spaceport.

16
00:01:09,630 --> 00:01:14,890
This was KSC six years ago: One government
program, utilizing all the facilities, paying

17
00:01:14,890 --> 00:01:16,359
all the bills.

18
00:01:16,359 --> 00:01:23,119
Today it's a totally different story, as we
look at Boeing, SpaceX, Blue Origin.

19
00:01:23,119 --> 00:01:28,150
In all of history only three nations have
sent humans to space: the United States, Russia,

20
00:01:28,150 --> 00:01:29,450
and China.

21
00:01:29,450 --> 00:01:34,559
Today there are four United States companies
-- with facilities at Kennedy Space Center

22
00:01:34,559 --> 00:01:39,009
-- building hardware to send humans to space.

23
00:01:39,009 --> 00:01:44,520
If you look at Blue Origin, they're building
a huge facility in Exploration Park, a research

24
00:01:44,520 --> 00:01:49,829
and development park at the Kennedy Space
Center outside the secure perimeter, to build

25
00:01:49,829 --> 00:01:51,909
the New Glenn rocket.

26
00:01:51,909 --> 00:01:53,770
Of course we've got Boeing.

27
00:01:53,770 --> 00:02:00,130
Boeing is located in what used to be Orbiter
Processing Facility 3 and also in Orbiter

28
00:02:00,130 --> 00:02:05,409
Processing Facilities 1 and 2 with the Air
Force X-37 space plane.

29
00:02:05,409 --> 00:02:11,069
Of course Boeing's entry into the Commercial
Crew market is the CST-100 Starliner, and

30
00:02:11,069 --> 00:02:14,340
they're doing a bang-up job down there building
that.

31
00:02:14,340 --> 00:02:17,940
If you move off to SpaceX, now you've got
the Crew Dragon.

32
00:02:17,940 --> 00:02:25,100
And looking out to what is Launch Complex
39A, what used to be a shuttle and Apollo

33
00:02:25,100 --> 00:02:30,150

launch pad, we've now launched three commercial launches with SpaceX off that facility.

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00:02:30,150 --> 00:02:34,250

And that's where the crew is going to launch from on the Crew Dragon.

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00:02:34,250 --> 00:02:38,590

And then rounding it out, of course, we've got Lockheed Martin with the Orion spacecraft

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00:02:38,590 --> 00:02:43,830

being built in the Operations and Checkout Building high bay.

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00:02:43,830 --> 00:02:49,549

Partnership with the state of Florida refurbishing that to accommodate Lockheed Martin in there.

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00:02:49,549 --> 00:02:55,140

Then we look at the Ground Systems Development and Operations Program at Kennedy Space Center,

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00:02:55,140 --> 00:03:01,420

building the infrastructure to support the Space Launch System.

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00:03:01,420 --> 00:03:03,439

Tremendous progress has been made.

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00:03:03,439 --> 00:03:09,680

You know, if you look at SLS and what we're doing, six years ago, inside the Vehicle Assembly

42

00:03:09,680 --> 00:03:12,220

Building, we had the shuttle.

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00:03:12,220 --> 00:03:18,200

Today, if you look inside High Bay 3, there are 10 adjustable platforms that support this

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00:03:18,200 --> 00:03:23,080

rocket as it evolves, easily adjustable with inserts as it grows and the outer mode line

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00:03:23,080 --> 00:03:24,659

changes.

46

00:03:24,659 --> 00:03:26,409

All those platforms are installed.

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00:03:26,409 --> 00:03:27,960

It's complete.

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00:03:27,960 --> 00:03:29,040

You know the mobile launcher.

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00:03:29,040 --> 00:03:34,590

A mobile launch platform that supported shuttle -- today we have a mobile launcher supporting

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00:03:34,590 --> 00:03:38,150

SLS and a clean pad design.

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00:03:38,150 --> 00:03:41,909

Here you can see the first umbilical being installed.

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00:03:41,909 --> 00:03:45,730

All the structural work is complete, all the systems are going into it now.

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00:03:45,730 --> 00:03:49,390

This will be complete in September of this year.

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00:03:49,390 --> 00:03:53,980

The high bay will be complete in April of this year, the end of the month -- there's

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00:03:53,980 --> 00:03:55,200

still some outfitting to do.

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00:03:55,200 --> 00:04:00,620

And the launch pad, if you look out to the launch pad, it's going to be complete in August.

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00:04:00,620 --> 00:04:04,940

We're completing the flame trench right now with all of the fire brick and the new flame

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00:04:04,940 --> 00:04:06,739

deflector.

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00:04:06,739 --> 00:04:11,190

We are going to be ready when SLS arrives.

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00:04:11,190 --> 00:04:18,340

I tell my program manager, Mike Bolger, without undue pressure, that KSC will not be the reason

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00:04:18,340 --> 00:04:20,019

we don't launch on time.

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00:04:20,019 --> 00:04:21,019

[laughter]

63

00:04:21,019 --> 00:04:26,650

Cabana: You know, if you look at the Kennedy Space Center, five years ago, we had a vision.

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00:04:26,650 --> 00:04:28,370

And we've made that vision a reality.

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00:04:28,370 --> 00:04:31,090

Public-private partnerships work.

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00:04:31,090 --> 00:04:32,570

We have transformed KSC.

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00:04:32,570 --> 00:04:36,150

And it's not government programs or commercial programs.

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00:04:36,150 --> 00:04:38,750

If we are going to be successful, it's government and commercial.

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00:04:38,750 --> 00:04:39,750

We need them both.

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00:04:39,750 --> 00:04:44,770

They are fully integrated for us to be successful as a nation, and Kennedy is ready to support

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00:04:44,770 --> 00:04:45,770

the future.

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00:04:45,770 --> 00:04:47,880

And I think it's an absolutely outstanding one.

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00:04:47,880 --> 00:04:48,880

Thank you.

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00:04:48,880 --> 00:04:52,520

Livingston: Thank you to our panel and to all of you who listened and participated.

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00:04:52,520 --> 00:04:55,500

It's been an honor for me to be the moderator.

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00:04:55,500 --> 00:04:59,910

And I appreciate the Space Foundation for making all of this possible for all of us

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00:04:59,910 --> 00:05:02,250

up here and all of you in the room.

78

00:05:02,250 --> 00:05:03,770

Thank you and goodbye everyone.