



1
00:00:04,480 --> 00:00:02,410
people keep asking me this question they

2
00:00:06,579 --> 00:00:04,490
say Hank how do you feel about the end

3
00:00:08,799 --> 00:00:06,589
of manned exploration of space with the

4
00:00:10,690 --> 00:00:08,809
with the final launch of the space shot

5
00:00:13,810 --> 00:00:10,700
into those people I say how did you feel

6
00:00:15,820 --> 00:00:13,820
when sitcoms ended with the last episode

7
00:00:17,230 --> 00:00:15,830
of Seinfeld actually I think I may have

8
00:00:19,120 --> 00:00:17,240
stumbled onto a pretty good metaphor he

9
00:00:20,710 --> 00:00:19,130
signed felt like the Space Shuttle was a

10
00:00:22,840 --> 00:00:20,720
long-running and critically acclaimed

11
00:00:24,070 --> 00:00:22,850
programmed it may have just like the

12
00:00:25,359 --> 00:00:24,080
space shuttle program been the best

13
00:00:27,609 --> 00:00:25,369

program of its time it was revolutionary

14

00:00:29,439 --> 00:00:27,619

it changed everything but everything has

15

00:00:32,019 --> 00:00:29,449

a beginning and everything has an end

16

00:00:34,870 --> 00:00:32,029

and now there are no revolutionary

17

00:00:36,700 --> 00:00:34,880

sitcoms like 30 rock the office and

18

00:00:38,170 --> 00:00:36,710

Parks and Rec Seinfeld had to step aside

19

00:00:39,610 --> 00:00:38,180

and as much as it pains me to say it

20

00:00:41,950 --> 00:00:39,620

much what's happening to the Space

21

00:00:44,530 --> 00:00:41,960

Shuttle it's time it's done the question

22

00:00:46,810 --> 00:00:44,540

is what is our 30 rock here turns out

23

00:00:49,240 --> 00:00:46,820

I'm not the ideal person to answer these

24

00:00:52,600 --> 00:00:49,250

questions cuz you know I I don't work at

25

00:00:54,340 --> 00:00:52,610

NASA luckily uh these people do yes I

26
00:00:56,830 --> 00:00:54,350
got to ask some questions of people at

27
00:01:00,729 --> 00:00:56,840
NASA via video including charlie bolden

28
00:01:02,260 --> 00:01:00,739
the guy who is in charge of NASA first

29
00:01:05,200 --> 00:01:02,270
question how are we gonna get this space

30
00:01:07,270 --> 00:01:05,210
astronauts to the space station without

31
00:01:09,700 --> 00:01:07,280
the space shuttle the same way we have

32
00:01:11,679 --> 00:01:09,710
been getting there almost entirely since

33
00:01:13,480 --> 00:01:11,689
the Columbia accident we're gonna take

34
00:01:15,010 --> 00:01:13,490
them all the way to Russia down to

35
00:01:17,620 --> 00:01:15,020
Kazakhstan and they will launch out of

36
00:01:19,120 --> 00:01:17,630
Baikonur cosmodrome in Kazakhstan aboard

37
00:01:20,260 --> 00:01:19,130
a soyuz spacecraft so I think we can all

38
00:01:22,359 --> 00:01:20,270

agree that that's not particularly

39

00:01:24,130 --> 00:01:22,369

ideally the question becomes what we're

40

00:01:25,570 --> 00:01:24,140

using the Soyuz capsule now and we will

41

00:01:26,679 --> 00:01:25,580

be for the foreseeable future but what's

42

00:01:28,690 --> 00:01:26,689

the next step after they answer that

43

00:01:30,190 --> 00:01:28,700

question like this is so cool I'm going

44

00:01:32,170 --> 00:01:30,200

to kick it over to Bobby Braun NASA's

45

00:01:34,359 --> 00:01:32,180

chief technologist we're going to have a

46

00:01:37,060 --> 00:01:34,369

whole host of American vehicles

47

00:01:39,069 --> 00:01:37,070

traveling to space with American crews

48

00:01:41,230 --> 00:01:39,079

and the best part about that is that

49

00:01:43,090 --> 00:01:41,240

those systems are being designed today

50

00:01:44,830 --> 00:01:43,100

by companies all around the country I

51
00:01:46,749 --> 00:01:44,840
can't tell you exactly what system is

52
00:01:48,880 --> 00:01:46,759
going to fly because it's it's somewhat

53
00:01:51,700 --> 00:01:48,890
of a competition it's somewhat of a race

54
00:01:53,440 --> 00:01:51,710
among these American companies but I am

55
00:01:55,090 --> 00:01:53,450
looking forward to seeing their their

56
00:01:58,359 --> 00:01:55,100
vehicles in flight so with the private

57
00:01:59,770 --> 00:01:58,369
sector and Russia taking care of getting

58
00:02:01,690 --> 00:01:59,780
to low-earth orbit into the space

59
00:02:03,999 --> 00:02:01,700
station and stuff what what does NASA's

60
00:02:06,280 --> 00:02:04,009
focus become NASA's going to turn its

61
00:02:08,800 --> 00:02:06,290
attention to getting out into deep space

62
00:02:10,839 --> 00:02:08,810
to going places that we frankly haven't

63
00:02:13,350 --> 00:02:10,849

been to before not is the stuff that

64

00:02:15,930 --> 00:02:13,360

gets me going Bobby Braun

65

00:02:18,420 --> 00:02:15,940

me wrong I love low orbit low orbit is

66

00:02:20,250 --> 00:02:18,430

great it is fantastic laboratories where

67

00:02:22,290 --> 00:02:20,260

we need to be to learn about space and

68

00:02:24,900 --> 00:02:22,300

its effects on people the question is

69

00:02:27,390 --> 00:02:24,910

how do we get to those new destinations

70

00:02:29,640 --> 00:02:27,400

hey I'll tell you what the first thing i

71

00:02:31,020 --> 00:02:29,650

want is faster rockets when you talk

72

00:02:32,580 --> 00:02:31,030

about trying to get some awesome back

73

00:02:34,860 --> 00:02:32,590

into things we've got to get some

74

00:02:36,630 --> 00:02:34,870

awesome into our ability to get from

75

00:02:38,250 --> 00:02:36,640

point A to point B in space because we

76

00:02:39,540 --> 00:02:38,260

really want to get the arm lower orbit

77

00:02:41,550 --> 00:02:39,550

and do some exploring we're going to

78

00:02:44,430 --> 00:02:41,560

need a better faster way more powerful

79

00:02:46,440 --> 00:02:44,440

engines rocket engines to get us further

80

00:02:48,900 --> 00:02:46,450

out into the solar system that last

81

00:02:50,699 --> 00:02:48,910

fella was Mike Massimino an astronaut

82

00:02:52,440 --> 00:02:50,709

who coincidentally completely

83

00:02:55,170 --> 00:02:52,450

coincidentally is speaking at VidCon

84

00:02:57,180 --> 00:02:55,180

about social media and outer space I

85

00:02:58,710 --> 00:02:57,190

suppose I have a hard time expressing

86

00:03:00,479 --> 00:02:58,720

how excited I am about these things or

87

00:03:02,220 --> 00:03:00,489

even understanding why I'm so excited

88

00:03:04,020 --> 00:03:02,230

about it we're just now starting to poke

89

00:03:06,240 --> 00:03:04,030

our nose out of this pond this sphere

90

00:03:08,010 --> 00:03:06,250

that we live on it created us we were

91

00:03:10,740 --> 00:03:08,020

built for it but our instinct that we

92

00:03:13,140 --> 00:03:10,750

can't deny this push for awesome draws

93

00:03:14,400 --> 00:03:13,150

us exploration of the solar system isn't

94

00:03:16,380 --> 00:03:14,410

something that you measure in like

95

00:03:18,449 --> 00:03:16,390

fiscal quarters it's something that

96

00:03:20,039 --> 00:03:18,459

takes decades these in generations and

97

00:03:21,330 --> 00:03:20,049

that's one of the most beautiful things

98

00:03:23,460 --> 00:03:21,340

about it we're not doing this just for

99

00:03:25,280 --> 00:03:23,470

us body of work the body of science

100

00:03:28,140 --> 00:03:25,290

necessary for this undertaking is is

101
00:03:30,509 --> 00:03:28,150
massive but we do undertake it because

102
00:03:33,090 --> 00:03:30,519
while we were built for this earth we

103
00:03:35,759 --> 00:03:33,100
were also built to explore we're a slave

104
00:03:37,740 --> 00:03:35,769
to the awesome we must do it NASA's

105
00:03:40,229 --> 00:03:37,750
manned space exploration program might

106
00:03:42,270 --> 00:03:40,239
end up being one of our generations most

107
00:03:44,729 --> 00:03:42,280
significant legacies for mankind a

108
00:03:46,530 --> 00:03:44,739
beginning and a continuation of the

109
00:03:48,840 --> 00:03:46,540
great human endeavor and for vonna word

110
00:03:51,210 --> 00:03:48,850
i give you lori Garver NASA's deputy

111
00:03:53,340 --> 00:03:51,220
administrator we are very excited about