
ARMSTRONG
FLIGHT RESEARCH
CENTER
2020

1
00:00:08,950 --> 00:00:05,749
2020 is a year of perfect vision

2
00:00:10,870 --> 00:00:08,960
we've got a lot going for us this year

3
00:00:13,430 --> 00:00:10,880
the roaring 20s are here i feel like i'm

4
00:00:14,789 --> 00:00:13,440
living in a science fiction novel

5
00:00:16,310 --> 00:00:14,799
we're looking forward to supporting

6
00:00:17,269 --> 00:00:16,320
these science campaigns studying the

7
00:00:18,790 --> 00:00:17,279
earth's atmosphere

8
00:00:20,710 --> 00:00:18,800
there's nothing like getting up there

9
00:00:22,230 --> 00:00:20,720
where you can look out over the distance

10
00:00:23,109 --> 00:00:22,240
and see the curvature of the earth we

11
00:00:27,830 --> 00:00:23,119
love a challenge

12
00:00:31,109 --> 00:00:29,910
we essentially are using the moon as a

13
00:00:33,270 --> 00:00:31,119

benchmark

14
00:00:35,350 --> 00:00:33,280
so that earth observing satellites can

15
00:00:37,510 --> 00:00:35,360
turn and look at the moon

16
00:00:39,270 --> 00:00:37,520
and set the scale on the amount of light

17
00:00:42,150 --> 00:00:39,280
they're measuring from the earth 865

18
00:00:43,350 --> 00:00:42,160
increase germinate good encounter on

19
00:00:45,110 --> 00:00:43,360
that one

20
00:00:46,389 --> 00:00:45,120
it's pretty cool like we're venturing

21
00:00:48,310 --> 00:00:46,399
into newer technologies

22
00:00:50,150 --> 00:00:48,320
xbox stuff is better for the environment

23
00:00:52,310 --> 00:00:50,160
the vibration level mimics

24
00:00:53,189 --> 00:00:52,320
what the controller will see in the

25
00:00:55,350 --> 00:00:53,199
aircraft

26
00:00:57,189 --> 00:00:55,360
it shows that our design is robust

27
00:01:00,950 --> 00:00:57,199
enough to meet the standards of flight

28
00:01:18,230 --> 00:01:00,960
these are our space rated versions

29
00:01:18,240 --> 00:01:24,830
nobody in the world is doing what we're

30
00:01:24,840 --> 00:01:33,429
doing

31
00:01:36,870 --> 00:01:35,109
first off i want to thank everybody for

32
00:01:37,830 --> 00:01:36,880
the level of productivity we still

33
00:01:39,350 --> 00:01:37,840
maintain

34
00:01:43,590 --> 00:01:39,360
we're going to get over this we're tough

35
00:01:47,749 --> 00:01:45,429
there were incredible similarities

36
00:01:48,630 --> 00:01:47,759
between the oxygen we have to provide to

37
00:01:50,310 --> 00:01:48,640
a pilot

38
00:01:51,670 --> 00:01:50,320

and the oxygen we have to provide to a

39
00:01:54,550 --> 00:01:51,680
patient

40
00:01:55,830 --> 00:01:54,560
i'm extremely proud of how our engineers

41
00:01:57,429 --> 00:01:55,840
were able to

42
00:02:00,149 --> 00:01:57,439
use what they had available in their

43
00:02:01,910 --> 00:02:00,159
garage and be able to build systems that

44
00:02:04,230 --> 00:02:01,920
might help a lot of people that's what

45
00:02:06,149 --> 00:02:04,240
engineers do we solve problems

46
00:02:08,100 --> 00:02:06,159
that's who nasa is the best and the

47
00:02:20,070 --> 00:02:08,110
brightest that america has

48
00:02:21,510 --> 00:02:20,080
[Music]

49
00:02:22,869 --> 00:02:21,520
there's not that much good news and i

50
00:02:23,190 --> 00:02:22,879
think this is one of those things that

51
00:02:34,830 --> 00:02:23,200
is

52
00:02:40,070 --> 00:02:37,509
exploration

53
00:02:41,509 --> 00:02:40,080
success tipping point it's a payload

54
00:02:43,190 --> 00:02:41,519
that we've been working together between

55
00:02:44,949 --> 00:02:43,200
blue origin and nasa it's

56
00:02:47,110 --> 00:02:44,959
tied into the work that we're doing in

57
00:02:49,430 --> 00:02:47,120
terms of getting nasa and america back

58
00:02:51,430 --> 00:02:49,440
to the moon

59
00:02:53,589 --> 00:02:51,440
what we're hoping to be able to do is to

60
00:02:56,309 --> 00:02:53,599
put this collection of knowledge

61
00:02:56,869 --> 00:02:56,319
out there so that companies can start to

62
00:02:58,550 --> 00:02:56,879
understand

63
00:03:08,950 --> 00:02:58,560

how do i design an airplane to be able

64
00:03:18,620 --> 00:03:16,830
[Music]

65
00:03:30,830 --> 00:03:18,630
so

66
00:03:48,750 --> 00:03:30,840
[Music]

67
00:03:55,509 --> 00:03:50,840
[Applause]

68
00:03:59,110 --> 00:03:57,990
as i try to steer it to the left back

69
00:04:01,880 --> 00:03:59,120
towards the intruders

70
00:04:02,610 --> 00:04:01,890
it continues to avoid

71
00:04:04,610 --> 00:04:02,620
[Music]

72
00:04:09,990 --> 00:04:04,620
[Applause]

73
00:04:13,990 --> 00:04:12,470
if we can provably control flutter

74
00:04:14,630 --> 00:04:14,000
instability modes past the flutter

75
00:04:16,949 --> 00:04:14,640
boundary

76
00:04:17,749 --> 00:04:16,959
this would allow us to use lighter

77
00:04:19,749 --> 00:04:17,759
weight more

78
00:04:35,270 --> 00:04:19,759
flexible structures like those seen on

79
00:04:38,230 --> 00:04:36,629
nasa armstrong has a lot of cool

80
00:04:38,710 --> 00:04:38,240
projects i mean every day you learn