



1  
00:00:22,340 --> 00:00:20,210  
I'm Lori Meggs and I'm bill hubscher

2  
00:00:23,990 --> 00:00:22,350  
welcome to focus on Marshall for today's

3  
00:00:25,490 --> 00:00:24,000  
program we are at the activities

4  
00:00:27,470 --> 00:00:25,500  
building on the marshall center at the

5  
00:00:28,849 --> 00:00:27,480  
research and Technology Expo that's

6  
00:00:31,310 --> 00:00:28,859  
right bill in most of the time we have

7  
00:00:32,540 --> 00:00:31,320  
to go and find technologies but this is

8  
00:00:34,069 --> 00:00:32,550  
a dream come true for us all the

9  
00:00:35,750 --> 00:00:34,079  
technologies are here right in one place

10  
00:00:38,030 --> 00:00:35,760  
road how do we go see what I can find

11  
00:00:40,069 --> 00:00:38,040  
okay and while Lori gets a head start on

12  
00:00:41,360 --> 00:00:40,079  
that we are joined now by the chief

13  
00:00:43,459 --> 00:00:41,370

technologist here at the marshall center

14

00:00:44,930 --> 00:00:43,469

james bilbro first of all sir thank you

15

00:00:46,970 --> 00:00:44,940

for making time to talk to us today oh

16

00:00:49,340 --> 00:00:46,980

it's my pleasure it's a very important

17

00:00:51,920 --> 00:00:49,350

subject to me well let's get started

18

00:00:53,959 --> 00:00:51,930

with the overall the big picture tell us

19

00:00:55,639 --> 00:00:53,969

just how important technology is to the

20

00:00:59,240 --> 00:00:55,649

agency and to the vision for Space

21

00:01:02,599 --> 00:00:59,250

Exploration well you know NASA is really

22

00:01:05,000 --> 00:01:02,609

all about a cutting edge and you can't

23

00:01:07,160 --> 00:01:05,010

do the kind of research the kind of

24

00:01:09,730 --> 00:01:07,170

missions that that NASA is proposing

25

00:01:12,109 --> 00:01:09,740

particularly with respect to exploration

26  
00:01:16,160 --> 00:01:12,119  
without having technology development

27  
00:01:18,530 --> 00:01:16,170  
and so the ability to develop the

28  
00:01:21,590 --> 00:01:18,540  
technology to get the technology focus

29  
00:01:22,999 --> 00:01:21,600  
to the needs for the mission are going

30  
00:01:24,770 --> 00:01:23,009  
to be one of the most challenging and

31  
00:01:27,380 --> 00:01:24,780  
important things that the agency can do

32  
00:01:29,359 --> 00:01:27,390  
so how important though is is the

33  
00:01:31,670 --> 00:01:29,369  
marshall center into the development of

34  
00:01:33,289 --> 00:01:31,680  
technology for the agency marshall is a

35  
00:01:35,890 --> 00:01:33,299  
development center so first and foremost

36  
00:01:40,190 --> 00:01:35,900  
it's primary responsibility is

37  
00:01:43,550 --> 00:01:40,200  
developing vehicles like the the Ares

38  
00:01:44,960 --> 00:01:43,560

one on the Ares 5 the responsibility

39

00:01:48,800 --> 00:01:44,970

that we have relative to the lunar

40

00:01:50,810 --> 00:01:48,810

programs those are those are major

41

00:01:53,450 --> 00:01:50,820

what I call engineering development

42

00:01:56,359 --> 00:01:53,460

programs and yet it's critical not only

43

00:01:57,920 --> 00:01:56,369

to have technology developed in order to

44

00:02:00,440 --> 00:01:57,930

enable those missions but to actually

45

00:02:02,929 --> 00:02:00,450

understand how technology has developed

46

00:02:05,120 --> 00:02:02,939

as you incorporate them from the other

47

00:02:06,980 --> 00:02:05,130

research centers within the agency from

48

00:02:09,650 --> 00:02:06,990

other agencies from industry academia

49

00:02:12,290 --> 00:02:09,660

and so doing technology development at

50

00:02:14,270 --> 00:02:12,300

Marshall not only provides the kind of

51  
00:02:16,070 --> 00:02:14,280  
technologies that we're going to need

52  
00:02:18,440 --> 00:02:16,080  
for our future missions but it provides

53  
00:02:20,180 --> 00:02:18,450  
skills and training to the individuals

54  
00:02:22,280 --> 00:02:20,190  
and to the programs and projects to

55  
00:02:23,900 --> 00:02:22,290  
understand what is involved in

56  
00:02:25,970 --> 00:02:23,910  
technology development you don't always

57  
00:02:28,309 --> 00:02:25,980  
get from point A to point B in a

58  
00:02:29,630 --> 00:02:28,319  
straight line thanks very much again for

59  
00:02:30,830 --> 00:02:29,640  
coming to talk to us today we're going

60  
00:02:32,840 --> 00:02:30,840  
to see some of those technologies you

61  
00:02:34,280 --> 00:02:32,850  
were talking about right now here today

62  
00:02:36,110 --> 00:02:34,290  
so let's go see if we can catch up with

63  
00:02:37,520 --> 00:02:36,120

lori i'm here with fred SRAM the

64

00:02:39,170 --> 00:02:37,530

independent research and development

65

00:02:40,309 --> 00:02:39,180

program administrator for marshall and

66

00:02:42,289 --> 00:02:40,319

fred tell me about all of the things

67

00:02:44,720 --> 00:02:42,299

that we're seeing here today well what

68

00:02:46,940 --> 00:02:44,730

you actually have here is a science fair

69

00:02:49,670 --> 00:02:46,950

Hall of Fame because all the people here

70

00:02:51,710 --> 00:02:49,680

are winners at least twice first of all

71

00:02:57,259 --> 00:02:51,720

they won the research funding under our

72

00:03:00,560 --> 00:02:57,269

program competing with maybe 150 others

73

00:03:02,060 --> 00:03:00,570

for program funding maybe 20 out of 150

74

00:03:04,039 --> 00:03:02,070

might get funded so they're already

75

00:03:05,449 --> 00:03:04,049

winners in that respect and then again

76

00:03:08,449 --> 00:03:05,459

because they've actually taken their

77

00:03:13,009 --> 00:03:08,459

idea to a product or to some level of

78

00:03:15,770 --> 00:03:13,019

understanding where some program project

79

00:03:18,229 --> 00:03:15,780

or someone with additional funding that

80

00:03:21,050 --> 00:03:18,239

has a problem or a need for their

81

00:03:23,509 --> 00:03:21,060

technology can see it they can talk to

82

00:03:25,940 --> 00:03:23,519

the innovator about it and then possibly

83

00:03:28,580 --> 00:03:25,950

offer them additional funding for for a

84

00:03:31,039 --> 00:03:28,590

follow-on development effort now one of

85

00:03:33,620 --> 00:03:31,049

the examples maybe the surface mobility

86

00:03:35,270 --> 00:03:33,630

people right here you may want to talk

87

00:03:36,020 --> 00:03:35,280

to them about that all right we're going