



1
00:00:07,990 --> 00:00:04,470
good morning here is a message from all

2
00:00:10,390 --> 00:00:08,000
the children in the usa

3
00:00:13,509 --> 00:00:10,400
uh that song was the

4
00:00:17,430 --> 00:00:13,519
second place winner in the wake up music

5
00:00:23,070 --> 00:00:19,830
you give and it received

6
00:00:25,109 --> 00:00:23,080
something like over 600 000 votes so

7
00:00:26,070 --> 00:00:25,119
congratulations to

8
00:00:28,390 --> 00:00:26,080
brian

9
00:00:31,990 --> 00:00:28,400
plunkett from halfway

10
00:00:38,869 --> 00:00:34,709
mike you set a new record uh 380 days in

11
00:00:39,990 --> 00:00:38,879
space how can anybody possibly beat you

12
00:00:42,389 --> 00:00:40,000
well uh

13
00:00:45,350 --> 00:00:42,399

the uh the russians have had people in

14
00:00:47,430 --> 00:00:45,360
space for uh you know up to you know 800

15
00:00:50,470 --> 00:00:47,440
days in their career so i got a long way

16
00:00:51,990 --> 00:00:50,480
to go and uh but i'm sure there's other

17
00:00:54,150 --> 00:00:52,000
people who are going to fly in our

18
00:00:56,630 --> 00:00:54,160
office more than one long duration space

19
00:00:58,950 --> 00:00:56,640
mission and i hope my record is soon

20
00:01:00,950 --> 00:00:58,960
broken and i hope it just becomes a kind

21
00:01:03,590 --> 00:01:00,960
of a ripple in the whole scheme of

22
00:01:06,230 --> 00:01:03,600
history as humans go on americans go on

23
00:01:07,750 --> 00:01:06,240
to explore the rest of the solar system

24
00:01:10,469 --> 00:01:07,760
but in the meantime i'm glad to share

25
00:01:12,870 --> 00:01:10,479
the moments with these guys

26

00:01:15,190 --> 00:01:12,880

all right you astronauts uh are you got

27

00:01:16,870 --> 00:01:15,200

about uh 10 seconds to explain to me

28

00:01:19,030 --> 00:01:16,880

exactly what the alpha magnetic

29

00:01:20,950 --> 00:01:19,040

spectrometer does for us in trying to

30

00:01:22,310 --> 00:01:20,960

find the origins of the universe go

31

00:01:23,990 --> 00:01:22,320

ahead

32

00:01:26,230 --> 00:01:24,000

well it's you know it's there's some

33

00:01:27,670 --> 00:01:26,240

really uh amazing uh things that that

34

00:01:29,429 --> 00:01:27,680

it's trying to figure out you know

35

00:01:30,630 --> 00:01:29,439

hubble hubble for us one of the

36

00:01:32,230 --> 00:01:30,640

important things hubble figured out was

37

00:01:34,870 --> 00:01:32,240

that the universe is not only expanding

38

00:01:36,789 --> 00:01:34,880

but at an accelerated rate and our

39

00:01:38,950 --> 00:01:36,799

understanding of how that could be with

40

00:01:40,069 --> 00:01:38,960

with mass you know when mass attracts

41

00:01:43,190 --> 00:01:40,079

and should be pulling things back

42

00:01:43,910 --> 00:01:43,200

together um we clearly don't understand

43

00:01:45,830 --> 00:01:43,920

uh

44

00:01:47,590 --> 00:01:45,840

the mass that's out there and about four

45

00:01:49,350 --> 00:01:47,600

percent of the of the masses that is the

46

00:01:50,870 --> 00:01:49,360

matter that we understand and then

47

00:01:52,870 --> 00:01:50,880

there's other kinds of matter that we're

48

00:01:55,109 --> 00:01:52,880

trying to figure out and one of those we

49

00:01:57,429 --> 00:01:55,119

call dark matter because uh physicists

50

00:01:58,550 --> 00:01:57,439

don't really understand what it is and

51

00:01:59,830 --> 00:01:58,560

this is uh

52

00:02:01,830 --> 00:01:59,840

understanding what the universe is the

53

00:02:03,510 --> 00:02:01,840

universe we live in how it all got here

54

00:02:05,590 --> 00:02:03,520

how it was formed uh these are

55

00:02:07,590 --> 00:02:05,600

fundamental questions and this is what

56

00:02:09,350 --> 00:02:07,600

ams is going to be trying to understand

57

00:02:11,510 --> 00:02:09,360

for us

58

00:02:14,229 --> 00:02:11,520

my first of four space flights was his

59

00:02:15,910 --> 00:02:14,239

endeavors pilot on sts-108 in december

60

00:02:17,270 --> 00:02:15,920

2001.

61

00:02:18,869 --> 00:02:17,280

our mission is returning from the

62

00:02:21,030 --> 00:02:18,879

international space station after

63

00:02:23,670 --> 00:02:21,040

endeavour's 12th visit to the orbiting

64

00:02:26,150 --> 00:02:23,680

laboratory there people from many

65

00:02:29,510 --> 00:02:26,160

nations have served continuously in

66

00:02:31,830 --> 00:02:29,520

successive crews since november of 2000

67

00:02:34,309 --> 00:02:31,840

teaching and learning from one another

68

00:02:37,110 --> 00:02:34,319

about interactions and about how best to

69

00:02:38,390 --> 00:02:37,120

do things in this harsh environment

70

00:02:41,110 --> 00:02:38,400

if you ask me

71

00:02:43,750 --> 00:02:41,120

what i think endeavour's legacy would be

72

00:02:45,589 --> 00:02:43,760

i'd have to say well first being a part

73

00:02:48,550 --> 00:02:45,599

of the mainstay

74

00:02:50,869 --> 00:02:48,560

the workhorse of the space program

75

00:02:53,430 --> 00:02:50,879

the space shuttle for the last 30 years

76
00:02:56,070 --> 00:02:53,440
endeavor was a big part of that but also

77
00:02:58,229 --> 00:02:56,080
endeavor had the unique distinction of

78
00:03:01,110 --> 00:02:58,239
bringing up the very first piece of the

79
00:03:05,350 --> 00:03:01,120
international space station and then by

80
00:03:08,390 --> 00:03:05,360
installing the uh orbiter boom uh system

81
00:03:10,390 --> 00:03:08,400
on top for use uh for the station's arm

82
00:03:12,550 --> 00:03:10,400
to extend its robotic arm

83
00:03:15,830 --> 00:03:12,560
the uh endeavor brought up the last

84
00:03:18,470 --> 00:03:15,840
piece of the space station as well so uh

85
00:03:20,869 --> 00:03:18,480
i think endeavour his legacy would be

86
00:03:23,190 --> 00:03:20,879
that she was a very important part of

87
00:03:25,589 --> 00:03:23,200
the assembly of the space station from

88
00:03:27,030 --> 00:03:25,599

beginning to end

89

00:03:29,110 --> 00:03:27,040

and also

90

00:03:31,670 --> 00:03:29,120

to me personally because i had my first