

COLLEEN TOWNSLEY



**HUBBLE WOMEN
MAKING HISTORY**

1
00:00:00,000 --> 00:00:11,230

[Music]

2
00:00:16,310 --> 00:00:13,549

thank you

3
00:00:18,830 --> 00:00:16,320

my name is Colleen Townsley I'm part of

4
00:00:20,929 --> 00:00:18,840

the Hubble Space Telescope project I

5
00:00:22,490 --> 00:00:20,939

work as the Hubble integration and test

6
00:00:26,150 --> 00:00:22,500

team manager

7
00:00:28,370 --> 00:00:26,160

behind me is what we call the vest

8
00:00:32,089 --> 00:00:28,380

structure which is the vehicle

9
00:00:35,510 --> 00:00:32,099

electrical systems test structure

10
00:00:37,490 --> 00:00:35,520

and um inside of each of the Bays which

11
00:00:41,630 --> 00:00:37,500

correspond to The Bays that are actually

12
00:00:44,209 --> 00:00:41,640

on the Hubble telescope on orbit we have

13
00:00:47,750 --> 00:00:44,219

flight light units we have engineering

14

00:00:50,270 --> 00:00:47,760

test units we have simulators brass

15

00:00:53,209 --> 00:00:50,280

boards different things that comprise

16

00:00:55,670 --> 00:00:53,219

everything that we would need to attest

17

00:00:57,950 --> 00:00:55,680

on the ground before we would send

18

00:00:59,450 --> 00:00:57,960

something up to the spacecraft anything

19

00:01:02,209 --> 00:00:59,460

that's going to be going to the

20

00:01:03,609 --> 00:01:02,219

spacecraft like new flight software

21

00:01:07,370 --> 00:01:03,619

releases

22

00:01:09,649 --> 00:01:07,380

different procedure changes usually

23

00:01:12,770 --> 00:01:09,659

needs to be tested in this facility

24

00:01:16,910 --> 00:01:12,780

first before sending it on orbit well I

25

00:01:19,250 --> 00:01:16,920

started in October 1988 so almost 35

26

00:01:22,429 --> 00:01:19,260

years beginning with the work with

27

00:01:24,969 --> 00:01:22,439

Hubble I've been part of the actual

28

00:01:28,490 --> 00:01:24,979

integration of the Hubble on the ground

29

00:01:31,609 --> 00:01:28,500

launch of Hubble and then the subsequent

30

00:01:33,530 --> 00:01:31,619

service emissions with testing of the

31

00:01:35,149 --> 00:01:33,540

replacement hardware and of course

32

00:01:36,469 --> 00:01:35,159

subsequent maintenance of the hardware

33

00:01:39,890 --> 00:01:36,479

and all

34

00:01:42,289 --> 00:01:39,900

when I was in high school women weren't

35

00:01:43,730 --> 00:01:42,299

in these type of professions you were

36

00:01:45,469 --> 00:01:43,740

going to be a secretary or you're going

37

00:01:49,550 --> 00:01:45,479

to be a nurse you just

38

00:01:51,109 --> 00:01:49,560

didn't have that kind of like push to go

39

00:01:53,870 --> 00:01:51,119

into the scientists and things like

40

00:01:57,770 --> 00:01:53,880

zeros now thank goodness when I

41

00:02:00,410 --> 00:01:57,780

mentioned I'd started in 1988 everybody

42

00:02:03,410 --> 00:02:00,420

treated me with the same respect I still

43

00:02:06,410 --> 00:02:03,420

have to work hard to move to different

44

00:02:08,930 --> 00:02:06,420

positions and you know we work long

45

00:02:12,110 --> 00:02:08,940

hours there's an anomaly where weekends

46

00:02:14,930 --> 00:02:12,120

for holidays you know it's a lot of hard

47

00:02:17,089 --> 00:02:14,940

work but it's extremely rewarding and

48

00:02:19,729 --> 00:02:17,099

I'm always always still improving myself

49

00:02:23,410 --> 00:02:19,739

if I can inspire

50

00:02:26,170 --> 00:02:23,420

another young woman to go into the field

51

00:02:28,970 --> 00:02:26,180

any science field in fact

52

00:02:31,970 --> 00:02:28,980

that would be wonderful I mean Hubble

53

00:02:35,229 --> 00:02:31,980

still producing great science

54

00:02:38,869 --> 00:02:35,239

and we have overcome a lot of obstacles

55

00:02:42,290 --> 00:02:38,879

I mean it's a fascinating piece of

56

00:02:44,089 --> 00:02:42,300

the satellite still going strong and I