



1  
00:00:01,800 --> 00:00:03,230

>> STATION, THIS IS  
HOUSTON.

2  
00:00:03,230 --> 00:00:05,670

ARE YOU READY FOR THE EVENT?

3  
00:00:05,670 --> 00:00:11,100

>> YES, WE'RE READY FOR THE  
EVENT.

4  
00:00:11,100 --> 00:00:13,480

>> WHITE HOUSE, THIS IS MISSION  
CONTROL, HOUSTON.

5  
00:00:13,480 --> 00:00:19,240

PLEASE CALL STATION FOR A VOICE  
CHECK.

6  
00:00:19,240 --> 00:00:20,929

>> DO YOU HEAR ME?

7  
00:00:20,929 --> 00:00:28,439

>> YES, SIR, WE HAVE YOU LOUD  
AND CLEAR.

8  
00:00:28,439 --> 00:00:31,579

>> WELL, THAT'S WHAT WE LIKE.

9  
00:00:31,579 --> 00:00:35,090

GREAT AMERICAN EQUIPMENT THAT  
WORKS.

10  
00:00:35,090 --> 00:00:36,090

AND THIS ISN'T EASY.

11  
00:00:36,090 --> 00:00:42,900

>> YEAH, WE LIKE THAT TOO.

12

00:00:42,900 --> 00:00:45,170

>> IT'S VERY EXCITING TO BE  
HERE.

13

00:00:45,170 --> 00:00:47,629

VERY, VERY EXCITING.

14

00:00:47,629 --> 00:00:51,649

AND TO SPEAK TO YOU LIVE WITH  
THREE BRAVE AMERICAN ASTRONAUTS.

15

00:00:51,649 --> 00:00:53,769

THESE ARE OUR FINEST.

16

00:00:53,769 --> 00:00:57,899

THESE ARE GREAT, GREAT  
AMERICANS, GREAT PEOPLE.

17

00:00:57,899 --> 00:01:04,640

TO JOIN US FROM ORBIT ABOARD THE  
INTERNATIONAL SPACE STATION,

18

00:01:04,640 --> 00:01:09,550

COMMANDER PEGGY WHITSON AND  
COLONEL JACK FISCHER.

19

00:01:09,550 --> 00:01:12,500

PEGGY WHITSON HAS BEEN SETTING  
RECORDS.

20

00:01:12,500 --> 00:01:14,390

WE'RE GOING TO TALK ABOUT THAT  
VERY SOON.

21

00:01:14,390 --> 00:01:18,620

I'M HERE IN THE OVAL OFFICE  
ALONG WITH MY DAUGHTER IVANKA

22

00:01:18,620 --> 00:01:23,850

AND ASTRONAUT KATE RUBENS WHO  
RECENTLY RETURNED FROM SPACE AND

23

00:01:23,850 --> 00:01:25,780  
FROM THE SPACE STATION.

24

00:01:25,780 --> 00:01:32,070  
TOGETHER WE ARE BEING JOINED BY  
STUDENTS ALL ACROSS AMERICA,

25

00:01:32,070 --> 00:01:35,950  
THOUSANDS AND THOUSANDS OF  
STUDENTS WHO ARE LEARNING.

26

00:01:35,950 --> 00:01:37,960  
THEY'RE LEARNING ABOUT SPACE,  
LEARNING ABOUT A LOT OF OTHER

27

00:01:37,960 --> 00:01:39,560  
THINGS.

28

00:01:39,560 --> 00:01:43,950  
AND THEY'RE WATCHING THIS  
CONVERSATION FROM THE CLASSROOM.

29

00:01:43,950 --> 00:01:47,890  
AND ALL OVER, WE HAVE  
ASTRONAUTS, AND WE HAVE

30

00:01:47,890 --> 00:01:48,890  
EVERYBODY.

31

00:01:48,890 --> 00:01:53,950  
WE'RE FLYING RIGHT NOW, 17,000  
MILES PER HOUR.

32

00:01:53,950 --> 00:01:55,590  
THAT'S ABOUT AS FAST AS I'VE  
EVER HEARD.

33

00:01:55,590 --> 00:01:58,670

I WOULDN'T WANT TO BE FLYING  
17,000 MILES AN HOUR.

34

00:01:58,670 --> 00:01:59,970

BUT THAT'S WHAT YOU DO.

35

00:01:59,970 --> 00:02:03,540

PEGGY, JACK, AND KATE, I KNOW  
THAT AMERICAN STUDENTS ARE

36

00:02:03,540 --> 00:02:05,930

THRILLED TO HEAR FROM YOU.

37

00:02:05,930 --> 00:02:08,630

BUT FIRST I WANT TO SAY THAT  
THIS IS A VERY SPECIAL DAY IN

38

00:02:08,630 --> 00:02:12,630

THE GLORIOUS HISTORY OF AMERICAN  
SPACE FLIGHT.

39

00:02:12,630 --> 00:02:17,860

TODAY, COMMANDER WHITSON, YOU  
HAVE BROKEN THE RECORD FOR THE

40

00:02:17,860 --> 00:02:22,530

MOST TOTAL TIME SPENT IN SPACE  
BY AN AMERICAN ASTRONAUT.

41

00:02:22,530 --> 00:02:26,440

534 DAYS AND COUNTING.

42

00:02:26,440 --> 00:02:29,310

THAT'S AN INCREDIBLE RECORD TO  
BREAK.

43

00:02:29,310 --> 00:02:34,300

AND ON BEHALF OF OUR NATION AND

FRANKLY BEHALF OF THE WORLD, I

44  
00:02:34,300 --> 00:02:36,310  
WOULD LIKE TO CONGRATULATE YOU.

45  
00:02:36,310 --> 00:02:38,670  
THAT IS REALLY SOMETHING.

46  
00:02:38,670 --> 00:02:42,050  
I WOULD LIKE TO KNOW, HOW DOES  
IT FEEL TO HAVE BROKEN SUCH A

47  
00:02:42,050 --> 00:02:45,300  
BIG AND IMPORTANT RECORD?

48  
00:02:45,300 --> 00:02:50,319  
>> WELL, IT'S ACTUALLY A HUGE  
HONOR TO BREAK A RECORD LIKE

49  
00:02:50,319 --> 00:02:51,319  
THIS.

50  
00:02:51,319 --> 00:02:54,760  
BUT IT'S AN HONOR FOR ME  
BASICALLY TO BE REPRESENTING ALL

51  
00:02:54,760 --> 00:03:00,090  
THE FOLKS AT NASA WHO MAKE THIS  
SPACE FLIGHT POSSIBLE AND WHO

52  
00:03:00,090 --> 00:03:03,790  
MAKE ME SETTING THIS RECORD  
FEASIBLE.

53  
00:03:03,790 --> 00:03:07,240  
SO IT'S A VERY EXCITING TIME TO  
BE AT NASA.

54  
00:03:07,240 --> 00:03:11,500

WE'RE ALL VERY MUCH LOOKING  
FORWARD, AS DIRECTED BY YOUR NEW

55

00:03:11,500 --> 00:03:15,680  
NASA BILL, WE'RE EXCITED ABOUT  
THE MISSIONS TO MARS IN THE

56

00:03:15,680 --> 00:03:16,920  
2030s.

57

00:03:16,920 --> 00:03:20,650  
AND SO WE ACTUALLY PHYSICALLY  
HAVE HARDWARE ON THE GROUND

58

00:03:20,650 --> 00:03:26,319  
BEING BUILT, THE ROCKETS THAT  
WILL TAKE US THERE.

59

00:03:26,319 --> 00:03:28,990  
THE HARDWARE BEING BUILT NOW  
WILL BE FOR THE TEST FLIGHTS

60

00:03:28,990 --> 00:03:31,130  
THAT WILL EVENTUALLY GET US  
THERE.

61

00:03:31,130 --> 00:03:34,790  
IT'S A VERY EXCITING TIME AND  
I'M SO PROUD OF THE TEAM.

62

00:03:34,790 --> 00:03:36,290  
>> GREAT.

63

00:03:36,290 --> 00:03:41,500  
AND WHAT ARE WE LEARNING FROM  
HAVING YOU SPENDING YOUR TIME UP

64

00:03:41,500 --> 00:03:42,500  
THERE?

65  
00:03:42,500 --> 00:03:43,500  
I KNOW SO MUCH RESEARCH IS DONE.

66  
00:03:43,500 --> 00:03:45,660  
I'M GETTING A GLIMPSE OF SOME OF  
IT RIGHT HERE IN THE OVAL

67  
00:03:45,660 --> 00:03:46,660  
OFFICE.

68  
00:03:46,660 --> 00:03:52,040  
WHAT ARE WE LEARNING BY BEING IN  
SPACE?

69  
00:03:52,040 --> 00:03:55,930  
>> I THINK PROBABLY THE  
INTERNATIONAL SPACE STATION IS

70  
00:03:55,930 --> 00:04:01,630  
PROVIDING A KEY BRIDGE FROM US  
DOING†-- LIVING ON EARTH TO

71  
00:04:01,630 --> 00:04:03,450  
GOING SOMEWHERE INTO DEEP SPACE.

72  
00:04:03,450 --> 00:04:06,459  
SO ON THOSE MARS MISSIONS, WE  
NEED TO BETTER UNDERSTAND HOW

73  
00:04:06,459 --> 00:04:11,150  
MICROGRAVITY IS REALLY AFFECTING  
OUR BODY.

74  
00:04:11,150 --> 00:04:13,840  
MANY OF THE STUDIES LOOK AT THE  
HUMAN BODY.

75  
00:04:13,840 --> 00:04:18,459  
WE'RE ALSO LOOKING AT THINGS

THAT INVOLVE OPERATIONS OF A

76

00:04:18,459 --> 00:04:22,180  
SPACE VEHICLE ON THESE LONG  
DURATION MISSIONS, AND THE

77

00:04:22,180 --> 00:04:25,330  
TECHNOLOGICAL ADVANCEMENTS THAT  
WILL BE REQUIRED.

78

00:04:25,330 --> 00:04:28,789  
FOR INSTANCE, ON A MULTI-YEAR  
MARS MISSION, WE'RE GOING TO

79

00:04:28,789 --> 00:04:32,080  
NEED TO BE ABLE TO CLOSE THE  
LIFE-SUPPORT SYSTEM.

80

00:04:32,080 --> 00:04:35,999  
THAT MEANS WE, RIGHT NOW, FOR  
INSTANCE, ARE TAKING SOLAR POWER

81

00:04:35,999 --> 00:04:40,439  
THAT WE COLLECT AND USING IT TO  
BREAK APART WATER INTO OXYGEN

82

00:04:40,439 --> 00:04:41,439  
AND HYDROGEN.

83

00:04:41,439 --> 00:04:43,419  
THE OXYGEN WE BREATHE, OF  
COURSE.

84

00:04:43,419 --> 00:04:46,830  
WE USE THE HYDROGEN, COMBINE IT  
BACK WITH THE CO<sub>2</sub> THAT WE GET

85

00:04:46,830 --> 00:04:49,990  
OUT OF THE AIR AND MAKE WATER.

86

00:04:49,990 --> 00:04:55,169

BUT WATER IS SUCH A PRECIOUS  
RESOURCE UP HERE THAT WE ALSO

87

00:04:55,169 --> 00:04:59,279

ARE CLEANING UP OUR URINE AND  
MAKING IT DRINKABLE.

88

00:04:59,279 --> 00:05:05,080

AND IT'S REALLY NOT AS BAD AS IT  
SOUNDS.

89

00:05:05,080 --> 00:05:07,449

>> THAT'S GOOD, I'M GLAD TO HEAR  
THAT.

90

00:05:07,449 --> 00:05:08,620

BETTER YOU THAN ME.

91

00:05:08,620 --> 00:05:13,919

I WILL SAY, COLONEL FISCHER, YOU  
JUST ARRIVED, HOW WAS YOUR TRIP?

92

00:05:13,919 --> 00:05:15,639

COMPLICATED, EASY?

93

00:05:15,639 --> 00:05:19,079

HOW DID IT GO?

94

00:05:19,079 --> 00:05:21,530

>> SIR, IT WAS AWESOME.

95

00:05:21,530 --> 00:05:26,780

IT MADE EVEN MY BELOVED F-22  
FEEL A LITTLE BIT UNDERPOWERED.

96

00:05:26,780 --> 00:05:31,680

YOU KNOW, I LAUNCHED IN A  
RUSSIAN VEHICLE WITH MY RUSSIAN

97

00:05:31,680 --> 00:05:37,569

FRIEND, FYODOR YURCHIKHIN FROM  
KAZAKHSTAN, GOT THE IMMEDIATE

98

00:05:37,569 --> 00:05:41,770

PERSPECTIVE CHANGE, AS WE GOT TO  
ORBIT, AND I SAW THAT FRAIL,

99

00:05:41,770 --> 00:05:44,150

THIN BLUE LINE OF LIFE AROUND  
THE EARTH.

100

00:05:44,150 --> 00:05:46,749

SIX HOURS LATER, WE'RE DOCKED TO  
THE STATION.

101

00:05:46,749 --> 00:05:51,419

THE NEXT DAY I INSTALL AN  
EXPERIMENT IN THE JAPANESE MODEL

102

00:05:51,419 --> 00:05:54,960

THAT'S GOING TO BE LOOKING AT  
NEW DRUGS AND HOW WE CAN MAKE

103

00:05:54,960 --> 00:06:01,229

THOSE DRUGS FOR MUSCULAR  
DYSTROPHY, ALZHEIMER'S, ALL

104

00:06:01,229 --> 00:06:02,240

SORTS OF THINGS.

105

00:06:02,240 --> 00:06:06,569

A COUPLE OF HOURS LATER, I  
WATCHED OUR CREWMATE, THOMAS

106

00:06:06,569 --> 00:06:11,479

PESQUET, A FRENCHMAN, DRIVE A  
CANADIAN ROBOTIC ARM TO CAPTURE

107

00:06:11,479 --> 00:06:16,449

A SPACESHIP FROM VIRGINIA  
CARRYING 3½ TONS OF CARGO AND

108

00:06:16,449 --> 00:06:20,349

SCIENCE THAT'S GOING TO KEEP US  
BUSY FOR THE NEXT FEW MONTHS,

109

00:06:20,349 --> 00:06:22,169

AND DOCKED THAT TO THE STATION.

110

00:06:22,169 --> 00:06:24,039

SIR, IT'S AMAZING.

111

00:06:24,039 --> 00:06:27,439

AND OH, NOW I'M TALKING TO THE  
PRESIDENT OF THE UNITED STATES

112

00:06:27,439 --> 00:06:30,310

WHILE HANGING FROM A WALL.

113

00:06:30,310 --> 00:06:31,479

IT'S AMAZING.

114

00:06:31,479 --> 00:06:35,639

THE INTERNATIONAL SPACE STATION  
IS BY FAR THE BEST EXAMPLE OF

115

00:06:35,639 --> 00:06:38,360

INTERNATIONAL COOPERATION AND  
WHAT WE CAN DO WHEN WE WORK

116

00:06:38,360 --> 00:06:40,740

TOGETHER IN THE HISTORY  
HUMANITY.

117

00:06:40,740 --> 00:06:45,240

I AM SO PROUD TO BE A PART OF  
IT.

118

00:06:45,240 --> 00:06:51,189

IT'S ALSO JUST COOL, LIKE  
YESTERDAY, I HAD†-- THERE YOU

119

00:06:51,189 --> 00:06:56,759

GO, THERE'S OUR RESIDENT SPACE  
NINJA DOING THE GRAVITY

120

00:06:56,759 --> 00:06:57,759

DEMONSTRATION.

121

00:06:57,759 --> 00:07:02,690

AND YESTERDAY MORNING, I HAD MY  
COFFEE IN FLOATY BALL FORM.

122

00:07:02,690 --> 00:07:05,150

AND SIR, IT WAS DELICIOUS.

123

00:07:05,150 --> 00:07:09,940

SO IT'S AWESOME.

124

00:07:09,940 --> 00:07:13,500

>> TELL ME, MARS, WHAT DO YOU  
SEE A TIMING FOR ACTUALLY

125

00:07:13,500 --> 00:07:15,449

SENDING HUMANS TO MARS?

126

00:07:15,449 --> 00:07:18,039

IS THERE A SCHEDULE?

127

00:07:18,039 --> 00:07:20,470

WHEN WOULD YOU SEE THAT  
HAPPENING?

128

00:07:20,470 --> 00:07:25,389

>> WELL, I THINK AS YOUR BILL  
DIRECTED, IT WILL BE

129

00:07:25,389 --> 00:07:27,240

APPROXIMATELY IN THE 2030s.

130

00:07:27,240 --> 00:07:31,130

AS I MENTIONED, WE ACTUALLY ARE  
BUILDING HARDWARE TO TEST THE

131

00:07:31,130 --> 00:07:32,949

NEW HEAVY LAUNCH VEHICLE.

132

00:07:32,949 --> 00:07:35,649

AND THIS VEHICLE WILL TAKE US  
FURTHER THAN WE'VE EVER BEEN

133

00:07:35,649 --> 00:07:38,150

AWAY FROM THIS PLANET.

134

00:07:38,150 --> 00:07:42,279

UNFORTUNATELY, SPACE FLIGHT  
TAKES A LOT OF TIME AND MONEY.

135

00:07:42,279 --> 00:07:46,240

SO GETTING THERE WILL REQUIRE  
SOME INTERNATIONAL COOPERATION

136

00:07:46,240 --> 00:07:51,949

TO GET IT TO BE A PLANET-WIDE  
APPROACH IN ORDER TO MAKE IT

137

00:07:51,949 --> 00:07:55,360

SUCCESSFUL, JUST BECAUSE IT IS A  
VERY EXPENSIVE ENDEAVOR.

138

00:07:55,360 --> 00:07:59,289

BUT IT IS SO WORTHWHILE DOING.

139

00:07:59,289 --> 00:08:04,069

>> WELL, WE WANT TO TRY AND DO

IT DURING MY FIRST TERM OR AT

140

00:08:04,069 --> 00:08:06,189

WORST DURING MY SECOND TERM.

141

00:08:06,189 --> 00:08:10,110

SO WE'LL HAVE TO SPEED THAT UP A  
LITTLE BIT, OKAY?

142

00:08:10,110 --> 00:08:15,489

>> WE'LL DO OUR BEST.

143

00:08:15,489 --> 00:08:16,489

>> YOU WILL.

144

00:08:16,489 --> 00:08:19,860

I HAVE GREAT RESPECT FOR YOU  
FOLKS, IT'S AMAZING WHAT YOU DO.

145

00:08:19,860 --> 00:08:22,589

I JUST WANT TO INTRODUCE ANOTHER  
GREAT ONE.

146

00:08:22,589 --> 00:08:24,610

KATE RUBENS IS WITH US TODAY.

147

00:08:24,610 --> 00:08:28,990

SHE HAS BEEN SO IMPRESSIVE AT  
RESEARCH AND SO MANY OTHER

148

00:08:28,990 --> 00:08:31,229

THINGS HAVING TO DO WITH NASA.

149

00:08:31,229 --> 00:08:35,039

AND KATE, I UNDERSTAND YOU'RE  
THE FIRST PERSON TO SEQUENCE DNA

150

00:08:35,039 --> 00:08:36,089

IN SPACE.

151

00:08:36,089 --> 00:08:37,300

CAN YOU TELL US ABOUT THAT?

152

00:08:37,300 --> 00:08:39,680

>> YES, THAT WAS ACTUALLY JUST  
THIS LAST SUMMER.

153

00:08:39,680 --> 00:08:43,659

IT'S A REAL EXAMPLE OF WHAT WE  
CAN DO WITH TECHNOLOGY AND

154

00:08:43,659 --> 00:08:44,659

INNOVATION.

155

00:08:44,659 --> 00:08:47,120

WE'VE GOTTEN A SEQUENCER DOWN TO  
THE SIZE OF YOUR CELLPHONE.

156

00:08:47,120 --> 00:08:50,319

WE WERE ABLE TO FLY THAT ON  
BOARD THE SPACE STATION AND

157

00:08:50,319 --> 00:08:51,840

SEQUENCE DNA.

158

00:08:51,840 --> 00:08:55,670

IT'S NOT JUST A TECHNOLOGY  
DEMONSTRATION, WE CAN USE IT TO

159

00:08:55,670 --> 00:08:58,769

DO THINGS LIKE DETECT MICROBES  
ON THE STATION, LOOK AT

160

00:08:58,769 --> 00:09:00,160

ASTRONAUT HEALTH.

161

00:09:00,160 --> 00:09:06,019

WE CAN LOOK FOR DISEASE

## OUTBREAKS AND DO RURAL HEALTH

162

00:09:06,019 --> 00:09:07,100

CARE AS WELL.

163

00:09:07,100 --> 00:09:08,459

>> THAT'S FANTASTIC.

164

00:09:08,459 --> 00:09:09,459

THAT IS REALLY GREAT.

165

00:09:09,459 --> 00:09:10,959

I SAW SOME OF THE WORK, AND IT'S  
INCREDIBLE.

166

00:09:10,959 --> 00:09:14,050

I'VE BEEN DEALING WITH  
POLITICIANS SO MUCH, I'M SO MUCH

167

00:09:14,050 --> 00:09:17,120

MORE IMPRESSED WITH THESE  
PEOPLE, YOU HAVE NO IDEA.

168

00:09:17,120 --> 00:09:20,080

NOW, SPEAKING OF ANOTHER  
IMPRESSIVE PERSON, IVANKA,

169

00:09:20,080 --> 00:09:23,420

YOU'VE BEEN VERY MUCH INTERESTED  
IN THIS PROGRAM.

170

00:09:23,420 --> 00:09:24,839

TELL US SOMETHING ABOUT IT.

171

00:09:24,839 --> 00:09:25,839

>> HI, DR.

172

00:09:25,839 --> 00:09:26,839

WHITSON.

173

00:09:26,839 --> 00:09:29,779

FIRST OF ALL, CONGRATULATIONS ON  
YOUR INCREDIBLE MILESTONE TODAY.

174

00:09:29,779 --> 00:09:33,100

YOU MAY KNOW THAT MY FATHER  
RECENTLY SIGNED THE INSPIRE

175

00:09:33,100 --> 00:09:37,769

WOMEN ACT TO ENCOURAGE FEMALE  
PARTICIPATION IN S.T.E.M.

176

00:09:37,769 --> 00:09:42,279

FIELDS  
ACROSS ALL AEROSPACE AREAS, AND

177

00:09:42,279 --> 00:09:44,980

REALLY WITH A FOCUS ON NASA.

178

00:09:44,980 --> 00:09:47,610

SO ENCOURAGING WOMEN AND GIRLS  
TO PURSUE S.T.E.M.

179

00:09:47,610 --> 00:09:49,920

CAREERS IS A  
MAJOR PRIORITY FOR THIS

180

00:09:49,920 --> 00:09:50,920

ADMINISTRATION.

181

00:09:50,920 --> 00:09:55,320

AND TODAY, WE ARE SITTING WITH  
AN AMAZING EXAMPLE OF THAT, DR.

182

00:09:55,320 --> 00:09:56,970

RUBENS, AND YOU, DR.

183

00:09:56,970 --> 00:09:57,970

WHITSON.

184

00:09:57,970 --> 00:10:00,720

I WOULD LOVE TO HEAR FROM YOU  
WHAT WAS THE IMPETUS FOR YOU TO

185

00:10:00,720 --> 00:10:04,439

GET INVOLVED IN THE SCIENCES.

186

00:10:04,439 --> 00:10:06,449

>> SO WHEN I WAS†--

>> ACTUALLY†--

187

00:10:06,449 --> 00:10:13,900

>> I WENT TO A CONFERENCE ON  
DNA, IT WAS SORT OF THE

188

00:10:13,900 --> 00:10:17,680

BEGINNING OF RECOMBINANT DNA AND  
UNDERSTANDING BIOLOGY.

189

00:10:17,680 --> 00:10:22,000

THE EXPOSURE TO SCIENTISTS AND  
THE KINDS OF THINGS YOU CAN DO

190

00:10:22,000 --> 00:10:25,520

WITH SCIENCE, TECHNOLOGY, AND  
INNOVATION.

191

00:10:25,520 --> 00:10:26,810

>> AMAZING.

192

00:10:26,810 --> 00:10:28,100

DR.

193

00:10:28,100 --> 00:10:29,380

WHITSON?

194

00:10:29,380 --> 00:10:32,269

>> FOR ME, IT WAS ACTUALLY THE  
APOLLO PROGRAM WAS MY

195

00:10:32,269 --> 00:10:33,629  
INSPIRATION.

196

00:10:33,629 --> 00:10:36,690  
AND THAT WHEN IT BECAME A DREAM  
TO BECOME AN ASTRONAUT.

197

00:10:36,690 --> 00:10:39,910  
I DON'T THINK IT BECAME A GOAL  
UNTIL I GRADUATED FROM HIGH

198

00:10:39,910 --> 00:10:43,000  
SCHOOL, WHEN THE FIRST FEMALE  
ASTRONAUTS WERE SELECTED.

199

00:10:43,000 --> 00:10:45,610  
AND SEEING THOSE ROLE MODELS,  
AND WITH THE ENCOURAGEMENT OF MY

200

00:10:45,610 --> 00:10:50,779  
PARENTS AND VARIOUS MENTORS IN  
COLLEGE AND GRADUATE SCHOOL, AND

201

00:10:50,779 --> 00:10:55,440  
WHEN I STARTED WORKING AT RICE,  
THAT'S WHAT MADE IT POSSIBLE TO

202

00:10:55,440 --> 00:10:57,160  
BECOME AN ASTRONAUT.

203

00:10:57,160 --> 00:11:00,329  
IT TOOK ME A LOT LONGER TO  
BECOME AN ASTRONAUT THAN I

204

00:11:00,329 --> 00:11:03,870  
REALLY WANTED IT TO TAKE, BUT I  
THINK I'M BETTER AT THE JOB

205

00:11:03,870 --> 00:11:06,600  
BECAUSE OF THE JOURNEY.

206

00:11:06,600 --> 00:11:11,190  
>> YOU'RE AN INCREDIBLE  
INSPIRATION TO US ALL.

207

00:11:11,190 --> 00:11:13,850  
I WOULD LIKE TO ASK ONE MORE  
QUESTION.

208

00:11:13,850 --> 00:11:17,630  
I'M INCREDIBLY CURIOUS, AS I'M  
SURE ALL STUDENTS ACROSS THE

209

00:11:17,630 --> 00:11:22,510  
COUNTRY ARE, TO KNOW WHAT A DAY  
IN THE LIFE OF SPACE IS LIKE.

210

00:11:22,510 --> 00:11:25,629  
COULD YOU SHARE WHAT A TIP DAY  
LOOKS LIKE, WHAT THE CHALLENGES

211

00:11:25,629 --> 00:11:29,800  
ARE, JUST ANY SPECIAL MOMENTS.

212

00:11:29,800 --> 00:11:35,819  
>> WELL, A TYPICAL DAY, WE WAKE  
UP AND LOOK AT THE MESSAGES FROM

213

00:11:35,819 --> 00:11:38,420  
THE GROUND, BECAUSE WE HAVE A  
HUGE GROUND TEAM THAT'S WORKING

214

00:11:38,420 --> 00:11:43,290  
ON OVERNIGHT TO PREPARE, YOU  
KNOW, CHANGES OR THE DETAILS OF

215

00:11:43,290 --> 00:11:45,930  
THE TESTS THAT WE'RE GOING TO BE  
PERFORMING OVER THE COURSE OF

216  
00:11:45,930 --> 00:11:46,930  
THE DAY.

217  
00:11:46,930 --> 00:11:50,470  
SO THE FIRST THING I DO IS CHECK  
THAT OUT, SEE WHAT'S CHANGED.

218  
00:11:50,470 --> 00:11:53,079  
ON ANY GIVEN DAY, IT CAN BE SO  
DRAMATICALLY DIFFERENT.

219  
00:11:53,079 --> 00:11:55,500  
ON ONE DAY WE MIGHT BE FOCUSING  
ON SCIENCE.

220  
00:11:55,500 --> 00:11:58,120  
ON ANOTHER DAY WE MIGHT BE  
REPAIRING THE CARBON DIOXIDE

221  
00:11:58,120 --> 00:12:00,750  
REMOVAL SYSTEM.

222  
00:12:00,750 --> 00:12:05,380  
SOON JACK AND I ARE GOING TO DO  
A SPACE WALK.

223  
00:12:05,380 --> 00:12:11,870  
I LOVE THE DIVERSITY OF THE  
DIFFERENT ACTIVITIES THAT WE DO.

224  
00:12:11,870 --> 00:12:15,670  
PLUS WE HAVE OVER 200  
INVESTIGATIONS ONGOING ON BOARD

225  
00:12:15,670 --> 00:12:17,000  
THE SPACE STATION.

226

00:12:17,000 --> 00:12:20,640

AND I JUST THINK THAT'S A  
PHENOMENAL PART OF THE DAY.

227

00:12:20,640 --> 00:12:25,029

THERE'S ALSO JUST THE LIVING ON  
BOARD THE SPACE STATION, IT'S

228

00:12:25,029 --> 00:12:27,920

SUCH A UNIQUE AND NOVEL  
ENVIRONMENT, NOTHING THAT WE'RE

229

00:12:27,920 --> 00:12:30,000

USED TO ON THE GROUND.

230

00:12:30,000 --> 00:12:33,699

IT'S SO SPECIAL JUST TO BE IN  
ZERO GRAVITY.

231

00:12:33,699 --> 00:12:36,970

JACK IS THE NEW GUY HERE, I  
THINK HE CAN PROBABLY GIVE YOU A

232

00:12:36,970 --> 00:12:40,380

BETTER PERSPECTIVE ON WHAT  
THAT'S LIKE.

233

00:12:40,380 --> 00:12:47,579

>> WELL, YOU KNOW, EVERYTHING  
HERE, MY DAD ALWAYS SAID THAT IF

234

00:12:47,579 --> 00:12:50,339

YOU LOVE WHAT YOU DO, YOU NEVER  
WORK A DAY IN YOUR LIFE.

235

00:12:50,339 --> 00:12:53,519

WE WORK REALLY HARD UP HERE, BUT  
IT'S NOT REALLY WORK, IT'S FUN,

236

00:12:53,519 --> 00:12:56,620

IT'S LIKE PLAYING FORT, ALMOST,  
ALTHOUGH YOU'RE CHANGING THE

237

00:12:56,620 --> 00:12:59,029

WORLD WHILE YOU DO IT.

238

00:12:59,029 --> 00:13:03,519

ON YOUR OFF TIME, THE OTHER  
MORNING I WAS WORKING OUT, AND

239

00:13:03,519 --> 00:13:08,339

ON OUR MACHINE THAT WE WORK OUT  
ON, RIGHT BELOW IT IS THE CUPOLA

240

00:13:08,339 --> 00:13:09,339

WINDOW.

241

00:13:09,339 --> 00:13:14,379

WHEN YOU'RE ON THE DEVICE WHERE  
YOU DO CRUNCHES, EVERY TIME YOU

242

00:13:14,379 --> 00:13:17,580

COME UP, HE SEE OUT THE WINDOW  
AND IT'S AWESOME, BECAUSE YOU

243

00:13:17,580 --> 00:13:21,310

GO, CRUNCH, OH, MY GOSH, THAT'S  
BEAUTIFUL, I'VE GOT TO DO THAT

244

00:13:21,310 --> 00:13:23,580

AGAIN, CRUNCH, OH, MY GOSH,  
THAT'S BEAUTIFUL.

245

00:13:23,580 --> 00:13:24,759

IT'S AWESOME.

246

00:13:24,759 --> 00:13:29,199

EVERYTHING WE DO HERE IS FUN AND

IT FEELS SO GREAT TO KNOW THAT

247

00:13:29,199 --> 00:13:31,779

WE'RE MAKING A DIFFERENCE ON THE  
GROUND AND FOR THE FUTURE OF

248

00:13:31,779 --> 00:13:34,750

HUMANITY AS WELL.

249

00:13:34,750 --> 00:13:39,070

IT'S AN INCREDIBLE, INCREDIBLE  
JOB.

250

00:13:39,070 --> 00:13:43,879

>> YOU'RE MAKING A GREAT  
DIFFERENCE, I HAVE TO SAY.

251

00:13:43,879 --> 00:13:46,730

AND THIS IS A VERY EXCITING TIME  
FOR OUR COUNTRY.

252

00:13:46,730 --> 00:13:49,689

AND YOU SEE WHAT'S HAPPENING  
WITH OUR COUNTRY IN TERMS OF

253

00:13:49,689 --> 00:13:52,680

JOB, IN TERMS OF BUSINESS.

254

00:13:52,680 --> 00:13:56,350

THERE'S SUCH EXCITEMENT AND SUCH  
ENTHUSIASM.

255

00:13:56,350 --> 00:13:59,440

MANY AMERICANS, ENTREPRENEURS  
ARE RACING INTO SPACE.

256

00:13:59,440 --> 00:14:02,930

I HAVE MANY FRIENDS SO EXCITED  
ABOUT SPACE, THEY WANT TO GET

257

00:14:02,930 --> 00:14:06,610

INVOLVED IN SPACE FROM THE AT  
SOME POINT OF ENTREPRENEURSHIP

258

00:14:06,610 --> 00:14:07,759

AND BUSINESS.

259

00:14:07,759 --> 00:14:11,819

TELL US ABOUT THE OPPORTUNITIES  
THAT COULD EXIST FOR THE NEXT

260

00:14:11,819 --> 00:14:14,630

GENERATION OF SCIENTISTS AND  
ENGINEERS.

261

00:14:14,630 --> 00:14:18,139

IS THAT SOMETHING THAT YOU THINK  
A STUDENT, BECAUSE YOU HAVE SO

262

00:14:18,139 --> 00:14:21,189

MANY STUDENTS, HUNDREDS OF  
THOUSANDS WATCHING, IS THAT

263

00:14:21,189 --> 00:14:23,850

SOMETHING THAT YOU THINK THAT  
STUDENTS SHOULD BE FOCUSING, OR

264

00:14:23,850 --> 00:14:26,129

SHOULD THEY BE THINKING ABOUT  
OTHER SUBJECTS?

265

00:14:26,129 --> 00:14:29,439

WHAT DO YOU THINK ARE THE  
OPPORTUNITIES FOR YOUNG STUDENTS

266

00:14:29,439 --> 00:14:32,720

WANTING TO BE INVOLVED IN SPACE?

267

00:14:32,720 --> 00:14:36,760

>> SIR, ABSOLUTELY.

268

00:14:36,760 --> 00:14:40,870

I THINK THAT THIS IS PROBABLY  
THE MOST EXCITING TIME IN SPACE

269

00:14:40,870 --> 00:14:42,899

EXPLORATION, CERTAINLY IN MY  
LIFETIME.

270

00:14:42,899 --> 00:14:48,449

WE ARE ABOUT TO JUST HAVE AN  
EXPLOSION OF ACTIVITY.

271

00:14:48,449 --> 00:14:52,029

THERE IS SO MUCH INVOLVEMENT ON  
THE SPACE STATION WITH

272

00:14:52,029 --> 00:14:55,490

COMMERCIAL INDUSTRIES AND  
COMMERCIAL PARTNERS.

273

00:14:55,490 --> 00:14:59,790

WE HAVE AN ENTIRE PROGRAM TO  
MANAGE THE SCIENCE.

274

00:14:59,790 --> 00:15:04,610

NASA HAS DONE A WONDERFUL JOB OF  
SEEDING A NEW INDUSTRY WITH THE

275

00:15:04,610 --> 00:15:08,430

COMMERCIAL CREW PROGRAM AND THE  
COMMERCIAL CARGO PROGRAM, SO

276

00:15:08,430 --> 00:15:10,839

THAT WE CAN BUILD THE  
INFRASTRUCTURE WE NEED FOR THE

277

00:15:10,839 --> 00:15:13,199

FUTURE EXPLORATION.

278

00:15:13,199 --> 00:15:17,069

ONE THING I LOVE ABOUT AMERICAN  
ENTREPRENEURS, ONCE YOU GET THEM

279

00:15:17,069 --> 00:15:20,300

GOING, YOU BETTER STAND OUT OF  
THEIR WAY, BECAUSE THEY'RE GOING

280

00:15:20,300 --> 00:15:21,999

TO START TRUCKING.

281

00:15:21,999 --> 00:15:23,939

WE'RE ABOUT TO THAT POINT.

282

00:15:23,939 --> 00:15:29,470

NASA IS TAKEN ON THAT EXPENSIVE,  
HARD, COMPLEX TASK OF GOING

283

00:15:29,470 --> 00:15:33,660

FURTHER AND DEEPER INTO SPACE  
WITH THE WONDERFUL NEW ROCKET

284

00:15:33,660 --> 00:15:36,569

SPACE LAUNCH SYSTEM AND ORION.

285

00:15:36,569 --> 00:15:42,180

AND THEN AS SOON AS WE BREAK  
OPEN THAT DOOR, THIS INCREDIBLE

286

00:15:42,180 --> 00:15:45,249

INFRASTRUCTURE THAT WE'VE BEEN  
BUILDING IS GOING TO BE RIGHT

287

00:15:45,249 --> 00:15:49,370

THERE TO PICK UP THE BATON AND  
CONTINUE INTO THE STARS.

288

00:15:49,370 --> 00:15:53,120

I WOULD SAY TO ALL THE STUDENTS  
THAT ARE WATCHING, THE TIME TO

289

00:15:53,120 --> 00:15:54,970  
GET EXCITED IS NOW.

290

00:15:54,970 --> 00:15:58,350  
IF YOU AREN'T STUDYING SCIENCE  
AND MATH, YOU MIGHT WANT TO

291

00:15:58,350 --> 00:16:04,790  
THINK ABOUT THAT, BECAUSE OUR  
FUTURE IN THE STARS STARTS NOW.

292

00:16:04,790 --> 00:16:08,930  
AND YOU CAN BE A PART OF THAT,  
IF, LIKE DR.

293

00:16:08,930 --> 00:16:11,319  
WHITSON, YOU CAN  
FIND THAT PASSION AND WORK

294

00:16:11,319 --> 00:16:12,790  
REALLY HARD.

295

00:16:12,790 --> 00:16:16,850  
AND WE'RE GOING TO FIND A  
PERMANENT FOOTHOLD IN THE STARS

296

00:16:16,850 --> 00:16:20,480  
FOR HUMANITY IF YOU DO THAT.

297

00:16:20,480 --> 00:16:24,350  
>> WELL, THANK YOU, SO  
WELL-SAID.

298

00:16:24,350 --> 00:16:27,519  
AND I HAVE TO SAY, THERE'S  
TREMENDOUS MILITARY APPLICATION

299

00:16:27,519 --> 00:16:29,079

IN SPACE.

300

00:16:29,079 --> 00:16:32,690

WE'RE REBUILDING OUR MILITARY  
LIKE NEVER BEFORE.

301

00:16:32,690 --> 00:16:34,230

WE'RE ORDERING EQUIPMENT.

302

00:16:34,230 --> 00:16:36,230

WE'RE GOING TO HAVE THE  
STRONGEST MILITARY THAT WE'VE

303

00:16:36,230 --> 00:16:39,829

EVER HAD, THE STRONGEST MILITARY  
THAT THE WORLD HAS EVER SEEN,

304

00:16:39,829 --> 00:16:42,649

AND THERE'S BEEN NO TIME WHEN WE  
NEED IT MORE.

305

00:16:42,649 --> 00:16:46,420

I'M SURE EVERY STUDENT WATCHING  
WANTS TO KNOW, WHAT IS NEXT FOR

306

00:16:46,420 --> 00:16:47,850

AMERICANS IN SPACE?

307

00:16:47,850 --> 00:16:53,009

I'M VERY PROUD, I JUST SIGNED A  
BILL COMMITTING NASA TO THE AIM

308

00:16:53,009 --> 00:16:55,870

OF SENDING AMERICAN ASTRONAUTS  
TO MARS.

309

00:16:55,870 --> 00:16:58,930

WE'LL DO THAT, I THINK WE'LL DO

THAT A LOT SOONER THAN WE'RE

310

00:16:58,930 --> 00:16:59,930

THINKING.

311

00:16:59,930 --> 00:17:02,079

WHICH ONE OF YOU IS READY TO GO  
TO MARS?

312

00:17:02,079 --> 00:17:03,100

ARE YOU READY?

313

00:17:03,100 --> 00:17:04,100

I THINK YOU'RE READY.

314

00:17:04,100 --> 00:17:09,030

I KNOW YOU'RE READY, SHE WOULD  
LIKE TO GO TO MARS VERY QUICKLY.

315

00:17:09,030 --> 00:17:13,440

WHO IS READY TO GO TO MARS UP  
THERE?

316

00:17:13,440 --> 00:17:15,500

>> WE ARE ABSOLUTELY READY TO GO  
TO MARS.

317

00:17:15,500 --> 00:17:19,470

IT'S GOING TO BE A FANTASTIC  
JOURNEY GETTING THERE, A VERY

318

00:17:19,470 --> 00:17:20,950

EXCITING TIME.

319

00:17:20,950 --> 00:17:22,960

ALL OF US WOULD BE HAPPY TO GO.

320

00:17:22,960 --> 00:17:27,190

I WANT ALL OUR YOUNG PEOPLE OUT

THERE TO RECOGNIZE THAT THE REAL

321

00:17:27,190 --> 00:17:29,970

STEPS ARE GOING TO BE TAKEN IN A  
FEW YEARS.

322

00:17:29,970 --> 00:17:34,400

SO BY STUDYING MATH, SCIENCE,  
ENGINEERING, ANY KIND OF

323

00:17:34,400 --> 00:17:36,720

TECHNOLOGY, YOU'RE GOING TO HAVE  
A PART IN THAT.

324

00:17:36,720 --> 00:17:41,130

THAT WILL BE VERY EXCITING.

325

00:17:41,130 --> 00:17:42,850

>> I JUST WANT TO THANK YOU VERY  
MUCH.

326

00:17:42,850 --> 00:17:44,090

AND DR.

327

00:17:44,090 --> 00:17:47,700

WHITSON,  
CONGRATULATIONS, AMAZING, WHAT

328

00:17:47,700 --> 00:17:51,670

AN AMAZING THING THAT YOU'VE  
DONE.

329

00:17:51,670 --> 00:17:56,530

EVERYBODY HERE, I KNOW YOUR  
FAMILY, EVERYBODY HERE IS PROUD

330

00:17:56,530 --> 00:17:57,910

OF THE RECORD YOU JUST BROKE.

331

00:17:57,910 --> 00:18:01,390  
I HOPE EVERY YOUNG AMERICAN  
WATCHING TODAY FINDS IN YOUR

332  
00:18:01,390 --> 00:18:05,700  
EXAMPLE A REASON TO LOVE SPACE  
AND THINK ABOUT SPACE, BECAUSE

333  
00:18:05,700 --> 00:18:09,690  
MANY GREAT THINGS ARE GOING TO  
COME OUT, TREMENDOUS DISCOVERIES

334  
00:18:09,690 --> 00:18:12,790  
IN MEDICINE AND OTHER FIELDS.

335  
00:18:12,790 --> 00:18:13,790  
THANK YOU VERY MUCH.

336  
00:18:13,790 --> 00:18:16,910  
I WANT TO SAY GOD BLESS YOU, GOD  
BLESS AMERICA.

337  
00:18:16,910 --> 00:18:20,880  
WE ARE VERY, VERY PROUD OF YOU  
AND VERY PROUD OF YOUR BRAVERY.

338  
00:18:20,880 --> 00:18:25,530  
THANK YOU VERY MUCH.

339  
00:18:25,530 --> 00:18:46,940  
>> THANK YOU, SIR.

340  
00:18:46,940 --> 00:18:47,950  
>>> THIS IS HOUSTON ACR.

341  
00:18:47,950 --> 00:18:49,460  
THAT CONCLUDES THE EVENT.

342  
00:18:49,460 --> 00:18:50,540

THANK YOU.

343

00:18:50,540 --> 00:18:51,770

>> THANK YOU, MR.

344

00:18:51,770 --> 00:18:53,610

PRESIDENT AND

ALL PARTICIPANTS ON THE WHITE

345

00:18:53,610 --> 00:18:54,610

HOUSE.

346

00:18:54,610 --> 00:18:55,610

PLEASE STAND BY.