



1  
00:00:14,540 --> 00:00:18,420  
>>> WE ARE THE UNITED STATES.  
>> THE UNITED STATES OF WOMAN.

2  
00:00:18,420 --> 00:00:25,390  
>> AND WE DO BETTER, EVERYONE

3  
00:00:25,390 --> 00:00:27,939  
DOES BETTER.  
ARE YOU WITH USISM THEN LISTEN

4  
00:00:27,939 --> 00:00:29,470  
UP.  
WE GET PAID.

5  
00:00:29,470 --> 00:00:30,990  
>> .  
DOING THE SAME JOB.

6  
00:00:30,990 --> 00:00:33,450  
>> WE WILL BE THE BOSS OF A  
COMPANY.

7  
00:00:33,450 --> 00:00:35,680  
>> OF OUR COMPANY.  
>> OF A WHOLE EMPIRE.

8  
00:00:35,680 --> 00:00:41,760  
>> SOUNDS GOOD, RIGHT?  
>> WE ARE THE UNITED STATES OF

9  
00:00:41,760 --> 00:00:49,860  
WOMAN.  
>> WE ARE MANY CHARGE OF OUR OWN

10  
00:00:49,860 --> 00:00:52,000  
BODIES.  
>> POWERFUL PART.

11

00:00:52,000 --> 00:00:55,620  
>> EVERY WHICH WAY WE WANT TO  
USE THEM.

12  
00:00:55,620 --> 00:01:02,059  
>> IT'S OUR CHOICE WHEN TO SAY  
YES AND WHEN TO SAY NO.

13  
00:01:02,059 --> 00:01:12,420  
>> WE'RE EARNING MORE COLLEGE  
DEGREES THAN EVER.

14  
00:01:12,420 --> 00:01:18,310  
>> DOING WHATEVER WE WANT.  
>> LIKE IT'S NOBODY'S BUSINESS.

15  
00:01:18,310 --> 00:01:21,970  
>> BECAUSE WE HAVE IDEAS.  
>> GAME-CHANGING IDEAS.

16  
00:01:21,970 --> 00:01:25,200  
>> WORLD-CHANGING IDEAS.  
>> THIS IS OUR MOVEMENT.

17  
00:01:25,200 --> 00:01:27,890  
>> TURNING STRUGGLES INTO  
STRENGTHS.

18  
00:01:27,890 --> 00:01:29,799  
¶  
>> WE'RE NOT DONE.

19  
00:01:29,799 --> 00:01:36,150  
WE'RE DEFINITELY NOT DONE.  
>> BUT WHEN WE STAND, STAND WITH

20  
00:01:36,150 --> 00:01:38,310  
US.  
WE ARE THE UNITED STATES WOMAN.

21

00:01:38,310 --> 00:01:42,890  
>> THE UNITED STATES OF WOMAN  
AND WE STAND STRONGER WHEN WE

22  
00:01:42,890 --> 00:01:51,420  
STAND TOGETHER.  
TODAY WILL CHANGE TOMORROW. 4

23  
00:01:51,420 --> 00:02:09,340  
TOGETHER WE GOT THIS.  
WE GOT THIS.

24  
00:02:09,340 --> 00:02:11,189  
>> WE GOT THIS.  
[ APPLAUSE ]

25  
00:02:11,189 --> 00:02:17,010  
>> WELCOME TO NASA AND A SPECIAL  
WELCOME TO THE UNITED STATE OF

26  
00:02:17,010 --> 00:02:18,791  
WOMAN.  
WE ARE GLAD OH HAVE YOU AT NASA

27  
00:02:18,791 --> 00:02:25,450  
HEADQUARTERS FOR A LOOK AT  
ENGAGING WOMAN AND GIRLS THROUGH

28  
00:02:25,450 --> 00:02:28,629  
DATA SCIENCE.  
EXAMPLES OF HOW NASA IS BRINGING

29  
00:02:28,629 --> 00:02:32,420  
NEWCOMERS, ESPECIALLY WOMAN, IN  
TO DATA SCIENCE.

30  
00:02:32,420 --> 00:02:37,250  
WE HOPE THE PRESENTATIONS AHEAD  
WILL SPARK IDEAS THAT YOU CAN

31

00:02:37,250 --> 00:02:41,060  
TAKE BACK TO YOUR COMMUNITY AND  
ORGANIZATIONS TO FURTHER ENGAGE

32  
00:02:41,060 --> 00:02:44,730  
WOMAN AND GIRLS.  
WE ALSO HOPE THAT YOU LEARN A

33  
00:02:44,730 --> 00:02:48,900  
LITTLE MORE ABOUT NASA AND OUR  
JOURNEY TO MARS.

34  
00:02:48,900 --> 00:02:50,980  
THAT WAS A TRULY INSPIRING  
VIDEO.

35  
00:02:50,980 --> 00:02:53,559  
IF THAT DOESN'T GET YOU EXCITED  
ABOUT THE DISCUSSION AHEAD, I

36  
00:02:53,559 --> 00:03:12,290  
DON'T KNOW WHAT WILL. .  
>> ON THE AGENCY SIGNS PROGRAM

37  
00:03:12,290 --> 00:03:15,799  
AND SCIENCE-RELATED.  
SHE IS PLANNING AN INVESTMENT.

38  
00:03:15,799 --> 00:03:20,569  
HER APPOINTMENT HAS TWO SCIENCES  
AND WILL RETURN TO NASA.

39  
00:03:20,569 --> 00:03:23,279  
FROM 1991-2000 SHE HAD A NUMBER  
OF SENIOR SCIENCES POSITIONS

40  
00:03:23,279 --> 00:03:27,959  
WITHIN THE AGENCY.  
SHE WAS VICE PRESIDENT OF THE

41

00:03:27,959 --> 00:03:33,349  
RESEARCH IN MARYLAND AND  
HONORARY PROFESSOR AT UNIVERSITY

42  
00:03:33,349 --> 00:03:35,270  
COLLEGE.  
WELCOME

43  
00:03:35,270 --> 00:03:46,449  
DR. ELLEN STOFAN

44  
00:03:46,449 --> 00:03:49,730  
>> THANK YOU AND WELCOME TO  
WASHINGTON, D.C.

45  
00:03:49,730 --> 00:03:54,499  
AND TO NASA HEADQUARTERS.  
IT IS WONDERFUL TO HAVE PEOPLE

46  
00:03:54,499 --> 00:04:01,469  
TALKING ABOUT A TOPIC THAT IS  
NEAR AND DEAR TO MY HEART AND

47  
00:04:01,469 --> 00:04:07,419  
GIRLS ENGAGED IN SCIENCE,  
TECHNOLOGY, ENGINEERING AND MATH 5

48  
00:04:07,419 --> 00:04:12,249  
ESPECIALLY USING DATA SCIENCE.  
I HOPE THAT THE INFORMATION YOU

49  
00:04:12,249 --> 00:04:15,769  
RECEIVED AT THE SUMMIT YESTERDAY  
WAS ENLIGHTENING AND IGNITED

50  
00:04:15,769 --> 00:04:21,870  
INTEREST IN THIS AREA.  
WASN'T YET AMAZING?

51

00:04:21,870 --> 00:04:29,540

[ APPLAUSE ]

>> I DON'T THINK I HAVE EVER

52

00:04:29,540 --> 00:04:34,070

BEEN SO MOVED BY SPEECH AS THE  
ONE FROM THE VICE PRESIDENT.

53

00:04:34,070 --> 00:04:39,191

IT THE WHOLE EVENT IT MADE ME  
REFLECT IN THE PROGRESS THAT WE

54

00:04:39,191 --> 00:04:43,310

MADE.  
THE CHALLENGES THAT WE FACE NOW

55

00:04:43,310 --> 00:04:48,720

AND MADE ME PERSONALLY MOTIVATED  
TO PUSH FORWARD FOR ALL OF US IF

56

00:04:48,720 --> 00:04:53,570

NOT FOR MY TWO DAUGHTERS.  
ADVANCING AND OPENING DOORS FOR

57

00:04:53,570 --> 00:04:59,090

WOMAN AND GIRLS IN ALL FRONTS IS  
CRITICAL TO MAXIMIZEING OUR

58

00:04:59,090 --> 00:05:02,700

POTENTIAL AS A NATION AND AS A  
PLANET.

59

00:05:02,700 --> 00:05:05,260

WE REALIZE THE IMPORTANCE OF A  
DIVERSE AND INCLUSIVE

60

00:05:05,260 --> 00:05:08,290

ENVIRONMENT AND MAKING PROGRESS  
IN THE RIGHT DIRECTION.

61

00:05:08,290 --> 00:05:12,180  
WE ARE FORTUNATE TO HAVE  
OUTSTANDING WOMAN LEADERS AT ALL

62  
00:05:12,180 --> 00:05:14,320  
LEADERS AND IN ALL TYPES OF  
WORLDS.

63  
00:05:14,320 --> 00:05:18,000  
YESTERDAY, IF YOU WENT TO THE  
SOLUTION SEMINAR IN THE THE

64  
00:05:18,000 --> 00:05:20,341  
EDUCATION, YOU HEARD FROM  
CHRISTINA, ONE OF THE THE

65  
00:05:20,341 --> 00:05:23,160  
MEMBERS OF OUR NEWEST CLASS OF  
ASTRONAUTS.

66  
00:05:23,160 --> 00:05:27,720  
THIS CLASS OF EIGHT IS THE FIRST  
TIME WE HAD AN ASTRONAUT CLASS

67  
00:05:27,720 --> 00:05:34,870  
THAT IS 50% MEN AND 50% WOMAN  
WHICH IS AMAZING.

68  
00:05:34,870 --> 00:05:42,250  
[ APPLAUSE ]  
>> AS YOU CAN SEE FROM THIS

69  
00:05:42,250 --> 00:05:52,800  
SLIDE, NASA IS MORE -- NOT THAT  
SLIDE.

70  
00:05:52,800 --> 00:05:54,910  
NASA IS MORE THAN JUST  
ASTRONAUTS.

71

00:05:54,910 --> 00:05:58,220  
WE HAVE WOMAN ENGINEERS,  
MATHEMATICIANS, GEOLOGISTS,

72

00:05:58,220 --> 00:06:02,940  
BIOLOGISTS AND YES ROCKET  
SCIENTISTS. 6

73

00:06:02,940 --> 00:06:06,280  
WE HAVE WOMAN LEADING OUR  
CENTERS, OVERSEEING IS LAUNCHES,

74

00:06:06,280 --> 00:06:10,490  
BUILDING ROCKETS, STUDYING OUR  
EARTH, STAR, INTERPRETING DATA

75

00:06:10,490 --> 00:06:13,350  
OF ALL KINDS.  
TODAY YOU WILL HEAR FROM ALL

76

00:06:13,350 --> 00:06:19,940  
NASA WOMAN INCLUDING OUR DEPUTY  
OF ADMINISTRATOR AND THE CHIEF

77

00:06:19,940 --> 00:06:23,770  
TECHNOLOGY OF THE UNITED STATES.  
WOMAN HAVE MADE SIGNIFICANT

78

00:06:23,770 --> 00:06:28,300  
CONTRIBUTIONS TO OUR AGENCY  
SINCE ITS INCEPTION.

79

00:06:28,300 --> 00:06:32,650  
THE WOMAN YOU SEE IN THE LOWER  
RIGHT CORNER OF THE PICTURE NEXT

80

00:06:32,650 --> 00:06:39,020  
TO FORMER ASTRONAUT IS KATHERINE  
JOHNSON WHO GOT A SHOUT OUT FROM

81

00:06:39,020 --> 00:06:45,370  
THE PRESIDENT YESTERDAY.  
SHE WAS BORN IN 1918 AND WAS

82  
00:06:45,370 --> 00:06:48,620  
KNOWN AS THE GIRL WHO LIKED TO  
COUNT.

83  
00:06:48,620 --> 00:06:51,960  
BY THE TIME SHE WAS 10 YEARS  
OLD, SHE WAS A FRESHMAN IN HIGH

84  
00:06:51,960 --> 00:06:56,330  
SCHOOL.  
AN AMAZING FETE AT A TIME WHEN

85  
00:06:56,330 --> 00:06:59,090  
AFRICAN-AMERICANS STOPPED IN THE  
8th GRADE IF YOU WERE LUCKY

86  
00:06:59,090 --> 00:07:09,630  
ENOUGH TO GO TO SCHOOL AT ALL.  
SHE WENT TO WORK FOR NASA THE --

87  
00:07:09,630 --> 00:07:17,470  
NASA'S PREDECESSOR IN HAMPTON,  
VIRGINIA IT WAS CONSIDERED A

88  
00:07:17,470 --> 00:07:20,990  
TEDIOUS JOB BUT NOT FOR  
KATHERINE AND OTHER WOMAN HIRED

89  
00:07:20,990 --> 00:07:23,580  
AT THE TIME.  
SHE PUT HER MATH SCHOOLS TO

90  
00:07:23,580 --> 00:07:26,950  
WORK.  
IN THOSE DAYS THEY WERE CALLED

91

00:07:26,950 --> 00:07:30,690  
THE WOMAN COMPUTERS.  
MY FATHER ACTUALLY WORKED FOR

92  
00:07:30,690 --> 00:07:35,170  
NASA AT OUR GLEN RESEARCH CENTER  
AT THE TIME AND HE SAID WHEN YOU

93  
00:07:35,170 --> 00:07:38,400  
HAD EQUATIONS YOU TOOK ALL YOUR  
PAPERS WITH YOUR EQUATIONS

94  
00:07:38,400 --> 00:07:40,280  
WRITTEN OUT AND WALK TO THIS  
ROOM AND THERE WOULD BE THIS

95  
00:07:40,280 --> 00:07:43,950  
ROOM FULL OF WOMAN AT A DESK  
WITH SLIDE RULES THE WHICH THE

96  
00:07:43,950 --> 00:07:47,010  
YOUNGER PEOPLE IN THE THE UNITED  
STATES DON'T KNOW WHAT THAT IS

97  
00:07:47,010 --> 00:07:53,850  
AND THE WOMAN WOULD FUNCTION AS  
A GIANT HUMAN COMPUTER. 7

98  
00:07:53,850 --> 00:08:02,060  
KATHERINE CALCULATED THE SPACE  
FOR ALLEN SHEPHERD.

99  
00:08:02,060 --> 00:08:05,680  
JOHN GLENN ASKED THAT SHE  
RECHECK THE CALCULATIONS MADE BY

100  
00:08:05,680 --> 00:08:10,230  
THE NEW COMPUTERS ABOARD THE  
FIRST FLIGHT.

101

00:08:10,230 --> 00:08:12,961  
THAT'S HOW VALUABLE SHE WAS.  
SHE WAS ONE OF THE

102  
00:08:12,961 --> 00:08:19,900  
AFRICAN-AMERICAN HEROES OF OUR  
COUNTRY WHO DIDN'T JUST CARRY

103  
00:08:19,900 --> 00:08:21,960  
ON.  
SHE HELPED CARRY THE NATION'S

104  
00:08:21,960 --> 00:08:26,610  
SPACE PROGRAM DESPITE WHAT SHE  
HAD TO DEAL WITH LIVING AT THAT

105  
00:08:26,610 --> 00:08:30,490  
TIME IN THIS PLACE.  
SHE WENT TO MEETINGS WHERE SHE

106  
00:08:30,490 --> 00:08:34,589  
WASN'T INVITED AND NOT TOTALLY  
WELCOME BECAUSE SHE KNEW SHE

107  
00:08:34,589 --> 00:08:39,539  
BELONGED AND THAT HER SKILLS  
WERE RELEVANT AND NEEDED.

108  
00:08:39,539 --> 00:08:42,890  
IT'S NOT ABOUT DIVERSITY, IT'S  
ABOUT INCLUSION.

109  
00:08:42,890 --> 00:08:47,790  
WE HAVE TO BRING EVERYONE IN THE  
ROOM AND MAKE SURE THEY'RE

110  
00:08:47,790 --> 00:08:51,680  
WELCOME.  
KATHERINE RECEIVED THE NATION'S

111

00:08:51,680 --> 00:08:55,809  
HIGHEST AWARD, THE PRESIDENTIAL  
MEDAL OF FREEDOM FROM PRESIDENT

112  
00:08:55,809 --> 00:09:00,899  
OBAMA.  
SO AMAZING.

113  
00:09:00,899 --> 00:09:05,529  
[ APPLAUSE ]  
>> OUR GOAL TODAY IS TO TALK

114  
00:09:05,529 --> 00:09:11,490  
ABOUT THE GOAL OF DATA SCIENCE.  
HIGHLIGHT SOME OF THE WAYS WE

115  
00:09:11,490 --> 00:09:15,930  
HAVE BEEN ABLE TO BRING WOMAN  
AND GIRLS HERE AT NASA.

116  
00:09:15,930 --> 00:09:18,670  
OUR HOPE IS THAT THESE  
DISCUSSIONS WILL SPARK IDEAS

117  
00:09:18,670 --> 00:09:24,350  
THAT YOU CAN TAKE BACK TO YOUR  
ORGANIZATIONS AND COMMUNITIES.

118  
00:09:24,350 --> 00:09:28,389  
TO HELP US FIND WAYSS TO REALLY  
INSPIRE AND DEVELOP WHAT WE LIKE

119  
00:09:28,389 --> 00:09:32,430  
TO CALL THE MARS GENERATION  
BECAUSE THAT'S WHERE WE'RE

120  
00:09:32,430 --> 00:09:36,019  
HEADED AND WE NEED WOMAN AND  
GIRLS TO KNOW THEY ARE NEEDED

121

00:09:36,019 --> 00:09:39,540  
AND WANTED ON THIS JOURNEY WITH  
NASA.

122  
00:09:39,540 --> 00:09:42,751  
I LOVE DATA BECAUSE AFTER  
ANALYZING IT, I'M ABLE TO DRAW 8

123  
00:09:42,751 --> 00:09:46,190  
CONCLUSIONS THAT INCREASE OUR  
KNOWLEDGE AND UNDERSTANDING.

124  
00:09:46,190 --> 00:09:48,940  
THE REASON WE LAUNCHED THE  
HUBBLE SPACE TELESCOPE AND THE

125  
00:09:48,940 --> 00:09:53,759  
REASON WE WILL LAUNCH THE  
TELESCOPE IN 2018 WHICH WILL

126  
00:09:53,759 --> 00:09:57,920  
ALLOW US TO SEE THE FIRST LIGHT  
OF THE UNIVERSE WAY BACK AT A

127  
00:09:57,920 --> 00:10:02,330  
TIME NEARLY THE BIG BANG.  
IT WILL HELP U US GET THIS DATA

128  
00:10:02,330 --> 00:10:07,730  
THAT WILL TRULY BE ABLE TO TO  
HELP US UNDERSTAND OUR SOLAR

129  
00:10:07,730 --> 00:10:11,420  
SYSTEMS FORM, HOW PLANETARYRY  
SYSTEMS FORM.

130  
00:10:11,420 --> 00:10:15,339  
RECENT DATA FROM OUR SPACE  
TELESCOPE HAS CONFIRMED OVER

131

00:10:15,339 --> 00:10:22,100  
2,000 PLANETS JUST LOOKING AT AN  
AREA OF THE SKY THAT YOU COULD

132  
00:10:22,100 --> 00:10:25,529  
HAVE COVER UP WITH YOUR THUMB IF  
YOU WENT OUTSIDE TONIGHT AND PUT

133  
00:10:25,529 --> 00:10:29,389  
IT UP IN THE SKY.  
2 ,000 NEW PLANETS.

134  
00:10:29,389 --> 00:10:31,550  
WHEN I WAS KID, WE HAD NINE  
PLANETS.

135  
00:10:31,550 --> 00:10:37,490  
THEN WE WENT DOWN TO EIGHT,  
SORRY ABOUT PLUTO BUT OUR FUTURE

136  
00:10:37,490 --> 00:10:40,819  
SOLAR SYSTEM SCIENTISTS, SOME OF  
WHOM I HOPEFULLY SEE IN THIS

137  
00:10:40,819 --> 00:10:44,829  
ROOM ARE GOING TO HAVE THOUSANDS  
OF PLANETS TO STUDY.

138  
00:10:44,829 --> 00:10:47,431  
THAT'S GOING TO CHANGE THE WAY  
WE LOOK AT OUR SOLAR SYSTEM, OUR

139  
00:10:47,431 --> 00:10:50,730  
UNIVERSE AND ESPECIALLY THE  
PLANET THAT WE LIVE ON.

140  
00:10:50,730 --> 00:10:54,439  
AS NASA'S CHIEF SCIENTISTS I'M  
RESPONSIBILITY FOR ADVISING THE

141

00:10:54,439 --> 00:10:58,860  
ADMINISTRATOR ON SCIENCE  
PROGRAMS AND STRATEGIC PLANNING

142  
00:10:58,860 --> 00:11:02,220  
AND INVESTMENTS AND I USE A LOT  
OF DATA TO HELP ME FORM THOSE

143  
00:11:02,220 --> 00:11:05,189  
RECK PH\*EB MENATIONS.  
-- RECOMMENDATIONS.

144  
00:11:05,189 --> 00:11:11,059  
THEY ARE ASSURING THAT THEY ARE  
LINED WITH AND FULFILL THE

145  
00:11:11,059 --> 00:11:15,680  
SCIENTIFIC OBJECTIVE.  
I WORK TO PROMOTE AND PRESERVE

146  
00:11:15,680 --> 00:11:19,569  
THE INTEGRITY OF OUR SCIENTIFIC  
RESEARCH PROGRAM ACROSS THE

147  
00:11:19,569 --> 00:11:25,269  
AGENCY SO THAT WE REMAIN A  
CREDIBLE SOURCE OF DATA AND ONLY 9

148  
00:11:25,269 --> 00:11:27,600  
CONTENT.  
IT WASN'T MY DREAM TO BECOME THE

149  
00:11:27,600 --> 00:11:31,290  
CHIEF SCIENTIST OF NASA.  
WHEN I WAS GROWING UP I LIKED

150  
00:11:31,290 --> 00:11:34,089  
PICKING UP ROCKS.  
I HAD A HUGE COLLECTION ALL OVER

151

00:11:34,089 --> 00:11:37,560  
THE HOUSE AND I STILL DO WHICH  
MY HUSBAND IS NOT TOTALLY CRAZY

152  
00:11:37,560 --> 00:11:40,629  
ABOUT.  
BUT I WAS ALWAYS SURROUNDED BY

153  
00:11:40,629 --> 00:11:44,300  
STEM ROLE MODELS.  
MY FATHER WORKED FOR NASA AND MY

154  
00:11:44,300 --> 00:11:49,110  
MOTHER WAS SCIENCE TEACHER.  
AS I WAS U GROWING UP THAT

155  
00:11:49,110 --> 00:11:52,350  
PEOPLE GET PAID FOR PICKING UP  
ROCKS AND ANALYZING AND AT THAT

156  
00:11:52,350 --> 00:11:56,000  
POINT I E THOUGHT THAT IS THE  
CAREER FOR ME.

157  
00:11:56,000 --> 00:11:59,759  
SO I FOLLOWED MY DREAMS AND WENT  
TO COLLEGE TO STUDY GEOLOGY AND

158  
00:11:59,759 --> 00:12:04,040  
WENT ON THE BECOME A PLANETARY  
TRY GEOLOGISTS.

159  
00:12:04,040 --> 00:12:08,199  
I HAD AN OPPORTUNITY TO WORK AND  
LEAD SEVERAL NASA MISSIONS AND

160  
00:12:08,199 --> 00:12:12,910  
SCIENCE PROGRAMS.  
I WORKED ON VENUS, MARS, A

161

00:12:12,910 --> 00:12:18,740  
SATURN AND THE EARTH.  
YOU CAN IMAGINE HOW I USED MY

162  
00:12:18,740 --> 00:12:24,999  
DATA TO HAVE FINDINGS.  
MOST OF THE WORK WE USE HERE AT

163  
00:12:24,999 --> 00:12:29,870  
NASA INVOLVES DATA.  
WE INCREASE OUR UNDERSTANDING

164  
00:12:29,870 --> 00:12:32,480  
AND MAKE IMPROVEMENTS ALL AROUND  
US.

165  
00:12:32,480 --> 00:12:35,649  
WE RECEIVED DATA FROM SOME OF  
THE MOST COMPLEX AREAS ON EARTH

166  
00:12:35,649 --> 00:12:41,019  
AND ACROSS THE SOLAR SYSTEM AND  
BEYOND TO BE USED IN MANY WAYS.

167  
00:12:41,019 --> 00:12:44,459  
THE RESEARCH THAT WE DO IS THE  
RESULT OF YEARS OR DECADES OF

168  
00:12:44,459 --> 00:12:49,050  
PLANNING AND DATA ANALYSIS BUT U  
THE RESULTS ARE ENLIGHTENING AND

169  
00:12:49,050 --> 00:12:53,649  
OFTEN AWE INSPIRING.  
MANY OF THESE DISCOVERIES MADE

170  
00:12:53,649 --> 00:12:59,120  
LIFE BETTER HERE ON THIS PLANET.  
NASA'S EARTH ORBITING SATELLITES

171

00:12:59,120 --> 00:13:03,519  
ARE PROVIDING REAL-TIME DATA ON  
RISING SEA LEVELS, RECORD

172  
00:13:03,519 --> 00:13:07,760  
TEMPERATURES AND INCREASING  
SEVERE WEATHER HAPPENING ALL 10

173  
00:13:07,760 --> 00:13:10,249  
AROUND US U.  
HERE'S ONE OF THE THE WAYS WE

174  
00:13:10,249 --> 00:13:12,760  
USE DATA.  
THIS SHOWS ACTUAL DATA THAT WE

175  
00:13:12,760 --> 00:13:19,869  
COLLECTED, NOT A MODEL OF GLOBAL  
TEMPERATURE SINCE 1884 WITH THE

176  
00:13:19,869 --> 00:13:25,519  
BLUE COLORS BEING COOLER AND THE  
ORANGE BEING WARMER AREAS.

177  
00:13:25,519 --> 00:13:29,209  
AS YOU CAN SEE, THE GLOBAL  
TEMPERATURES ARE RISING OVER

178  
00:13:29,209 --> 00:13:31,649  
TIME.  
WE USE DATA LIKE THESE TO

179  
00:13:31,649 --> 00:13:35,629  
DEVELOP MODELS TO PROJECT THE  
FUTURE EFFECTS OF OUR CHANGING

180  
00:13:35,629 --> 00:13:38,959  
CLIMATE.  
SOME OF THESE EFFECTS WILL OCCUR

181

00:13:38,959 --> 00:13:43,279  
NO MATTER WHAT WE DO WITH CARBON  
EMISSIONS BUT OUR MODELS

182  
00:13:43,279 --> 00:13:46,380  
CERTAINLY SHOW THE GROOM EFFECTS  
THAT WILL OCCUR IF WE DO

183  
00:13:46,380 --> 00:13:49,570  
NOTHING.  
JUST THIS PAST YEAR, SCIENTISTS

184  
00:13:49,570 --> 00:13:53,050  
REPORTED THE EXECELLERATEING ICE  
MELTING IN GREEN LAND AND IN THE

185  
00:13:53,050 --> 00:13:56,449  
ARCTIC AND THE SHIFT SEEN IN  
AGRICULTURE.

186  
00:13:56,449 --> 00:13:59,740  
CLIMATE CHANGE IS HAPPENING  
TODAY.

187  
00:13:59,740 --> 00:14:02,839  
THIS IS NOT JUST OUR PROBLEM  
ALONE, BUT IT'S A WORLD-WIDE

188  
00:14:02,839 --> 00:14:05,300  
PROGRAM PROBLEM.  
SO WE ARE DEVELOPING

189  
00:14:05,300 --> 00:14:08,499  
PARTNERSHIPS WITH OTHER  
COUNTRIES TO COMBAT THESE

190  
00:14:08,499 --> 00:14:10,929  
CHALLENGES.  
THESE SCIENCE DATA ARE BEING USE

191

00:14:10,929 --> 00:14:13,720  
BID SCIENTISTS TO UNDER STAND  
AND BETTER PREDICT CLIMATE

192  
00:14:13,720 --> 00:14:17,910  
EXPECTS.  
WERE WORK OHING WITH

193  
00:14:17,910 --> 00:14:22,889  
INTERNATIONAL PARTNERS TO TURN  
THE DATA INTO INFORMATION THAT

194  
00:14:22,889 --> 00:14:26,730  
WE CAN USE TO HELP THIS COUNTRY  
AND COUNTRIES AROUND THE WORLD

195  
00:14:26,730 --> 00:14:32,129  
BECOME MORE RESILIENT TO THE  
EFFECTS OF CLIMATE CHANGE.

196  
00:14:32,129 --> 00:14:34,980  
NASA HAS A GOAL TO EBG TEND  
HUMAN PRESENCE TO THE SURFACE OF

197  
00:14:34,980 --> 00:14:39,259  
MARS BY THE 2030s.  
THERE'S A LOT WE CAN LEARN ABOUT 11

198  
00:14:39,259 --> 00:14:42,300  
EARTH PAST AND FUTURE BY  
EXPLORING MARS.

199  
00:14:42,300 --> 00:14:46,350  
OUR ROBOTIC EXPLORERS HAVE GIVE  
-P US ENOUGH DATA AND PICTURES

200  
00:14:46,350 --> 00:14:50,829  
TO SPARK MORE QUESTIONS IN THE  
SCIENCE COMMUNITY THAN ANSWERS.

201

00:14:50,829 --> 00:14:54,801  
WE HAVE FOUND THAT MARS HISTORY  
WAS COMPARABLE TO EARTH AND THAT

202  
00:14:54,801 --> 00:14:59,389  
THE CONDITIONS EARLY IN MAR'S  
HISTORY WERE LIKELY SUITABLE FOR

203  
00:14:59,389 --> 00:15:04,929  
THE EVOLUTION OF LIFE AND RECENT  
EVIDENCE HAS PROVIDED GOOD

204  
00:15:04,929 --> 00:15:08,889  
EVIDENCE THAT WE SEE RUNNING  
WATER ON THE SURFACE OF MARS.

205  
00:15:08,889 --> 00:15:13,709  
IT MAKES US ASK THE QUESTION,  
"COULD THERE STILL BE LIFE ON

206  
00:15:13,709 --> 00:15:18,170  
MARS?"  
IN 2020, A MARS ROVER THE SIZE

207  
00:15:18,170 --> 00:15:23,759  
OF A CAR WILL LAUNCH TOWARDS  
MARS TO BUILD ON OUR CURIOSITY

208  
00:15:23,759 --> 00:15:27,660  
ROVER IN ADDRESSING THESE  
QUESTIONS ACT THE POTENTIAL FOR

209  
00:15:27,660 --> 00:15:31,209  
LIFE ON MARS IN THE PAST OR  
RIGHT NOW.

210  
00:15:31,209 --> 00:15:34,759  
AND TO DISCOVER KHAL CHALLENGES  
FOR FUTURE HUMAN EXPLORATION.

211

00:15:34,759 --> 00:15:39,699  
WE ARE SCOPING TOUT SCENE AND  
LOOKING FOR POTENTIAL ENTRY TIES

212  
00:15:39,699 --> 00:15:44,750  
LOU A SUCCESSFUL HUMAN MISSION  
TO MARS IN THE 2030s.

213  
00:15:44,750 --> 00:15:48,269  
THESE ROBOTIC EXPLORERS PROVIDE  
US WITH A LOT OF DATA BUT NEED

214  
00:15:48,269 --> 00:15:53,629  
HUMANS ON THE GROUND BREAKING  
OPEN, ANALYZING MAR'S ROCKS AND

215  
00:15:53,629 --> 00:15:57,269  
DIRT TO FIND MORE CLUES AND  
ANSWERS TO GIVE US THAT QUESTION

216  
00:15:57,269 --> 00:16:01,679  
OF WHETHER LIFE EVOLVED.  
WE ARE DEVELOPING THE MARS

217  
00:16:01,679 --> 00:16:05,639  
GENERATION AND WE NEED YOUR HELP  
BRINGING IN WOMAN AND GIRLS IN

218  
00:16:05,639 --> 00:16:10,529  
THE STEM FIELDS TO CONTRIBUTE TO  
THIS JOURNEY AND MAYBE BE ONE OF

219  
00:16:10,529 --> 00:16:14,339  
THOSE FIRST ASTRONAUT, FIRST  
SCIENTISTS TO WALK ON THE

220  
00:16:14,339 --> 00:16:17,459  
SURFACE OF MARS.  
THERE ARE MANY WAYS YOU CAN

221

00:16:17,459 --> 00:16:23,119  
PARTICIPATION IN OUR MISSION AND  
ONE IS THROUGH CITIZEN

222  
00:16:23,119 --> 00:16:26,989  
SCIENTISTS.  
THEY PROVIDE VITAL DATA TO THE 12

223  
00:16:26,989 --> 00:16:31,019  
SCIENCE COMMUNITY AND MAKING  
ACTUAL DISCOVERS WHETHER IT'S

224  
00:16:31,019 --> 00:16:34,589  
HELPING US FIND PLANETS AROUND  
OTHER STARS OR HELPING US MAP

225  
00:16:34,589 --> 00:16:37,949  
THE SURFACE OF MARS.  
NASA DOESN'T KNOW ALL THERE IS

226  
00:16:37,949 --> 00:16:41,790  
TO KNOW NOR DO WE HAVE THE  
RESOURCES TO FIND ANSWERS TO ALL

227  
00:16:41,790 --> 00:16:45,069  
OUR QUESTIONS SO WE ARE LIVE  
LEVERAGEING THE SCALES OF THE

228  
00:16:45,069 --> 00:16:50,269  
PUBLIC.  
MORE INFORMATION CAN BE FOUND A

229  
00:16:50,269 --> 00:16:56,989  
AT SCIENCE.NASA.GOV/CITIZEN  
SCIENTISTS.

230  
00:16:56,989 --> 00:17:01,529  
YOU CAN ENGAGE WOMAN AND GIRLS  
TO EXTEND THROUGH DISEASE

231

00:17:01,529 --> 00:17:06,000

SCIENCE.

I -- I AM HOPING THAT THESE YOU

232

00:17:06,000 --> 00:17:09,890

TAKE BACK TO YOUR ORG STKAEUGS  
AND TO YOUR COMMUNITIES AS YOU

233

00:17:09,890 --> 00:17:15,100

PLAY YOUR PART.  
THANK YOU FOR ALL THE WORK YOU

234

00:17:15,100 --> 00:17:19,400

ARE DOING IN YOUR ORGANIZATIONS  
AND COMMUNITIES TO ENGAGE WOMAN

235

00:17:19,400 --> 00:17:23,100

AND GIRLS IN SCIENCE,  
TECHNOLOGY, EDUCATION AND

236

00:17:23,100 --> 00:17:27,480

ENGINEERING AND MATH.  
THANK YOU.

237

00:17:27,480 --> 00:17:39,330

[ APPLAUSE ]  
>> THANK YOU DR. STOFAN.

238

00:17:39,330 --> 00:17:50,790

LET'S TAKE A MOMENT TO HEAR FROM  
SOME OTHER

239

00:17:50,790 --> 00:17:55,400

WOMAN OF NASA.  
>> OUR UNDERSTANDING OF THE

240

00:17:55,400 --> 00:18:02,220

UNIVERSE.  
THE LEADING ROLE IN SPACE EBG

241

00:18:02,220 --> 00:18:05,160  
EBG PHROR RATION.  
THE CHARGE OF AMERICA'S SPACE

242  
00:18:05,160 --> 00:18:08,370  
PROGRAM.  
PROVIDES LEADERSHIP PLANNING AND

243  
00:18:08,370 --> 00:18:15,559  
POLICY DIRECTIONS FOR NASA'S  
PROGRAMS AND FUNCTIONS.

244  
00:18:15,559 --> 00:18:17,141  
.  
PERFECTING NEW STATE OF THE THE

245  
00:18:17,141 --> 00:18:24,500  
ART SPACE SUITS.  
LEARN MORE AT NASA.GOV. .

246  
00:18:24,500 --> 00:18:30,290  
>> NOW, IT IS MY HONOR TO  
INTRODUCE NASA DEPUTY

247  
00:18:30,290 --> 00:18:33,410  
ADMINISTRATOR DR. DAVA NEWMAN  
AND U.S. CHIEF TECHNOLOGY

248  
00:18:33,410 --> 00:18:46,020  
OFFICER, MEGAN SMITH. 13  
>> I DO IT BUT I EARNED MY SUIT.

249  
00:18:46,020 --> 00:18:52,330  
SO GOOD TO BE HERE.  
>> YEAH.

250  
00:18:52,330 --> 00:18:55,510  
>> THANK YOU FOR JOINING US.  
HOW IS EVERYONE?

251

00:18:55,510 --> 00:19:00,290  
I MISSED YESTERDAY.  
BUT BE KNOWN, I WENT ONLINE AND

252  
00:19:00,290 --> 00:19:04,350  
STAYED UP TO 3 A.M. LONDON TIME  
JUST TO GET A PEEK.

253  
00:19:04,350 --> 00:19:08,480  
I WASN'T GOING TO MISS THIS FOR  
THE WORLD.

254  
00:19:08,480 --> 00:19:13,670  
THIS IS JUST TOO IMPORTANT.  
SO, WE HAVE THE U.S. CHIEF

255  
00:19:13,670 --> 00:19:20,680  
TECHNOLOGIST HERE.  
MEGAN IS A GREAT FRIEND.

256  
00:19:20,680 --> 00:19:30,600  
NO ONE MORE QUALIFIED TO TALK TO  
US ABOUT WOMAN AND DATA.

257  
00:19:30,600 --> 00:19:32,840  
WE HAVE HUGE GOALS FOR THE  
FUTURE.

258  
00:19:32,840 --> 00:19:37,410  
THANK YOU THR-FPLT STOFAN.  
WE ARE RECRUITING THE GENERATION

259  
00:19:37,410 --> 00:19:44,610  
AND WE NEED MORE SO WE CAN GO  
PAST, PRESENT OR FUTURE OR LET

260  
00:19:44,610 --> 00:19:47,280  
YOU TALK ABOUT THE PROJECT  
YOU'VE BEEN WORKING ON.

261

00:19:47,280 --> 00:19:52,640

>> RIGHT.

WE HAVE BEEN WORKING ON A BUNCH

262

00:19:52,640 --> 00:19:58,980

OF THESE -- WE ARE REALLY  
LOOKING AT THE CAPABILITIES AND

263

00:19:58,980 --> 00:20:01,980

TALENT AND HOW DO WE UNLOCK THE  
TALENT OF THE AMERICAN PEOPLE

264

00:20:01,980 --> 00:20:04,630

AND THE PEOPLE IN THE WORLD.  
IT'S SO AWESOME TO BE HERE AT

265

00:20:04,630 --> 00:20:09,450

NASA.  
YOU ARE JUST DRIVING SO MUCH TO

266

00:20:09,450 --> 00:20:14,930

LIGHT AND ENGAGEMENT WITH WHAT  
EVERYBODY IS FOLLOWING YOU.

267

00:20:14,930 --> 00:20:17,930

I THINK EVERY WEEK, EVERY DAY  
THERE'S SOMETHING THAT NASA IS

268

00:20:17,930 --> 00:20:22,380

DOING WHETHER YOU ARE LOOKING  
OUT AND ADVENTURING THE WAY YOU

269

00:20:22,380 --> 00:20:26,070

DO OR RATHER LOOKING DOWN AT THE  
PLANET AND FIGURING OUT WHAT WE

270

00:20:26,070 --> 00:20:31,500

NEED TO DO HERE AT HOME WITH  
DATA SCIENCE.

271

00:20:31,500 --> 00:20:37,450  
YOU JUST MENTIONED KATHERINE, SO  
MANY PEOPLE HAVE BEEN PART OF

272  
00:20:37,450 --> 00:20:41,210  
CREATING WHAT'S GOING ON.  
WE HAD A LITTLE IMAGE -- I DON'T

273  
00:20:41,210 --> 00:20:47,670  
KNOW IF THEY CAN BRING IT UP. 14  
IT'S A BEAUTIFUL MASS IMAGE.

274  
00:20:47,670 --> 00:20:51,580  
>> THIS PHOTO WAS TAKEN BY  
ASTRONAUT KATY COLEMAN WHEN SHE

275  
00:20:51,580 --> 00:20:54,690  
WAS RECEIVING A DELIVERY.  
WHAT WAS REALLY SURPRISING TO

276  
00:20:54,690 --> 00:21:02,880  
ME, CAN YOU SEE NEW YORK CITY?  
IT IS LOOKING DOWN ON SENECA

277  
00:21:02,880 --> 00:21:09,020  
FALLS.  
IT SEEMS SO APPROPRIATE TO BRING

278  
00:21:09,020 --> 00:21:11,800  
THEM UP.  
I THOUGHT THEY COULD NEVER HAVE

279  
00:21:11,800 --> 00:21:18,320  
IMAGINED WHEN THEY WERE MEETING  
AT THE FIRST EVER WOMAN'S

280  
00:21:18,320 --> 00:21:24,730  
CONVENTION.  
IT IS A DOCUMENT WE HAVE THE

281

00:21:24,730 --> 00:21:26,630  
CONTENT.  
SOMEBODY IS HANDING IT OUT.

282  
00:21:26,630 --> 00:21:31,600  
IF YOU ARE LISTENING ONLINE OR  
ON TV YOU CAN SEARCH FOR THE

283  
00:21:31,600 --> 00:21:34,560  
DECLARATION.  
WHEN THEY WERE WRITING A

284  
00:21:34,560 --> 00:21:38,220  
MEETING, THEY HAD NO IDEA THAT  
UP ABOVE THEM WHATEVER A HUNDRED

285  
00:21:38,220 --> 00:21:41,580  
SOMETHING YEARS LATER, WOULD BE  
KATY, A WOMAN, CATCHING THIS

286  
00:21:41,580 --> 00:21:45,770  
DELIVERY ON THE SPACE STATION.  
THE SENTIMENTS ARE IMPORTANT TO

287  
00:21:45,770 --> 00:21:47,910  
READ BECAUSE IT'S ONE OH THE  
MOST COMPREHENSIVE DOCUMENTS

288  
00:21:47,910 --> 00:21:54,640  
EVER WRITTEN ACT WOMAN'S  
EQUALITY.

289  
00:21:54,640 --> 00:21:58,370  
NO ONE HAD ACCESS TO EDUCATION  
AND EVEN TODAY IF YOU WERE TO

290  
00:21:58,370 --> 00:22:01,980  
RED LINE OR WRITE UP, WHAT'S  
TRUE IN THIS SENTIMENT THAT THEY

291

00:22:01,980 --> 00:22:05,730  
ASK FOR -- HOW FAR HAVE WE COME?  
WE HAVE COME FAR IN THE UNITED

292  
00:22:05,730 --> 00:22:08,370  
STATES BUT OTHER PLACESS  
HAVEN'T.

293  
00:22:08,370 --> 00:22:12,940  
I WAS ABLE TO WORK CLOSE BEFORE  
I CAME TO GOVERNMENT AND A LOT

294  
00:22:12,940 --> 00:22:15,130  
OF PEOPLE DON'T KNOW THAT HER  
FAVORITE SUBJECT IS PHYSICS.

295  
00:22:15,130 --> 00:22:21,100  
WE WERE TALKING ACT THAT  
YESTERDAY BUT THE ACCESS OF

296  
00:22:21,100 --> 00:22:23,410  
EDUCATION THAT THEY SO  
DESPERATELY WANTED AND DIDN'T

297  
00:22:23,410 --> 00:22:33,300  
HAVE IT AND LOOK AT US NOW.  
SO, IT SPOKE TO ME FROM 1848 IS

298  
00:22:33,300 --> 00:22:37,020  
THE LAST SENTIMENT ABOUT 15  
CONFIDENCE.

299  
00:22:37,020 --> 00:22:42,880  
HOW IMPORTANT CONFIDENCE IS.  
SO THIS IDEA OF CREATIVE

300  
00:22:42,880 --> 00:22:47,480  
CONFIDENCE AND THAT EVERYONE  
WOULD BE ABLE TO DO THEIR THING

301

00:22:47,480 --> 00:22:51,120  
IS REALLY IMPORTANT AND WHATEVER  
IT IS YOUR PASSION IS THAT YOU

302  
00:22:51,120 --> 00:22:53,220  
WOULD BRING WE NEED THAT FOR  
THIS THE WORLD.

303  
00:22:53,220 --> 00:22:55,860  
WE NEED THAT FOR ALL THE THE  
CHALLENGES THAT WE HAVE.

304  
00:22:55,860 --> 00:22:58,500  
IT AO REALLY IMPORTANT TO  
REMEMBER OUR PAST.

305  
00:22:58,500 --> 00:23:03,750  
THERE'S ANOTHER IMAGE AROUND  
DATA -- I DON'T KNOW IF THEY CAN

306  
00:23:03,750 --> 00:23:07,782  
SEE THE NEXT ONE.  
THIS IS SOMETHING THAT WE FOUND

307  
00:23:07,782 --> 00:23:09,640  
ON THE WEB.  
IT'S A LITTLE CRAFT.

308  
00:23:09,640 --> 00:23:16,120  
THIS IS NOT OUR WORK.  
IF YOU CLICK ON IT, THE STUFF

309  
00:23:16,120 --> 00:23:23,190  
THEY DID THEY LISTED IT ON A  
SCREEN PLAY.

310  
00:23:23,190 --> 00:23:29,600  
THESE ARE ALL MALE CAST AND  
FEMALE CAST AND IT'S INTERESTING

311

00:23:29,600 --> 00:23:33,880  
WHO GETS TO SPEAK ON FILM.  
WE VOICE IT.

312  
00:23:33,880 --> 00:23:39,710  
EVERY TIME WE WATCH ON TV, MEN  
ARE LEARNING NOT TO LISTEN TO

313  
00:23:39,710 --> 00:23:41,810  
WOMAN.  
THAT'S WHAT'S HAPPENING TO US IN

314  
00:23:41,810 --> 00:23:44,090  
MEETINGS.  
THIS IS A GREAT EXAMPLE OF USING

315  
00:23:44,090 --> 00:23:47,330  
DATA SCIENCE TO HELP OURSELVES.  
NO ONE CREATED THIS.

316  
00:23:47,330 --> 00:23:53,360  
OVER HERE IN THE CORNER YOU U  
CAN SEE CHILDREN'S TELEVISION.

317  
00:23:53,360 --> 00:24:01,660  
IT'S THE MALE/FEMALE LINES.  
EVEN THE FILM, "FROZEN" WHICH IS

318  
00:24:01,660 --> 00:24:08,580  
SO A AWESOME.  
WE COULD NEVER KNOW THIS IN

319  
00:24:08,580 --> 00:24:11,750  
ORDER TO FIX IT IF WE DIDN'T  
MEASURE IT.

320  
00:24:11,750 --> 00:24:17,410  
SO, DAVA AND I WERE TALKING.  
IT IS JUST CROWD SOURCE.

321

00:24:17,410 --> 00:24:23,160  
WE CAN LEARN SO MUCH BY SHARING  
AND COLLABORATION AND SHARE IT

322

00:24:23,160 --> 00:24:25,410  
WITH US.

>> WORKING WITH NASA AND OUR

323

00:24:25,410 --> 00:24:30,080  
NATIONAL ACADEMIES CALLED THE 16  
SCIENCE EXCHANGE.

324

00:24:30,080 --> 00:24:33,720  
THEY HAVE SCIENTISTS AND  
ENGINEERS THAT WORK WITH THE

325

00:24:33,720 --> 00:24:36,250  
HOLLYWOOD FOLKS.  
THEY WANT TO GET IT RIGHT.

326

00:24:36,250 --> 00:24:40,850  
THEY ARE BUSY AND DISCIPLINED.  
SO TOMORROW LAND, I HAD NEVER

327

00:24:40,850 --> 00:24:47,470  
SEEN IT BUT IT'S FANTASTIC.  
THE LITTLE SISTER IS A ROCK

328

00:24:47,470 --> 00:24:52,510  
STAR, NO, THE BIG SISTER.  
SASCHA IS THE WRITER FOR DISNEY

329

00:24:52,510 --> 00:24:58,120  
COME TO US.  
WE WANT TO GET THIS WORK.

330

00:24:58,120 --> 00:25:01,380  
THE MARTIAN.  
THEY GOT THE SCIENCE RIGHT.

331

00:25:01,380 --> 00:25:10,600  
THEY SIGNED THE EFF OUT OF US. .  
>> MY FRIEND CAME OUT OF

332  
00:25:10,600 --> 00:25:17,450  
"MARTIAN" AND SAID, "MOM, SOME  
DAY MARS IS JUST GOING TO BE

333  
00:25:17,450 --> 00:25:22,220  
LIKE CANADA AND THE UH, I THINK  
THE EARTH WILL BE LIKE ETHIOPIA

334  
00:25:22,220 --> 00:25:24,790  
WHERE EVERYONE CAME FROM."  
>> ABSOLUTELY.

335  
00:25:24,790 --> 00:25:36,790  
MY ONLY PICKS ARE THREE THINGS.  
I DO IT BUT FOR NOT FOR HUMANS.

336  
00:25:36,790 --> 00:25:39,840  
WIND ON MARS IS LIKE A LITTLE  
FEATHER.

337  
00:25:39,840 --> 00:25:45,710  
HE KNEW THAT.  
NO ONE WILL READ A BOOK OR SEE

338  
00:25:45,710 --> 00:25:49,750  
THAT.  
>> WE JUST WERE OVER AT THE

339  
00:25:49,750 --> 00:25:57,670  
NATIONAL ACADEMY.  
WE WERE SHOWING THIS IMAGE HERE

340  
00:25:57,670 --> 00:26:01,450  
AND SO WE WERE TALKING ABOUT  
BIAS IN CLASSROOMS, WHAT'S ON

341

00:26:01,450 --> 00:26:08,050  
THE WALLS MAKE YOU FEEL IF YOU  
BELONG.

342  
00:26:08,050 --> 00:26:14,970  
WHO ARE WE CELEBRATING?  
WHO'S IN PUBLIC SPACES.

343  
00:26:14,970 --> 00:26:17,940  
ADD A FEMALE STATUE EVERYWHERE.  
WHO CAN WE CELEBRATE?

344  
00:26:17,940 --> 00:26:24,710  
SUE SUSAN B.ANTHONY AND TALK  
ABOUT THE GALAXY OF WOMAN.

345  
00:26:24,710 --> 00:26:32,090  
YOU ARE DOING THE WORKSHOP  
AROUND IT.

346  
00:26:32,090 --> 00:26:40,600  
WITH THE "MARTIAN" SOME CASTING  
DIRECTORS, MENTIONED THAT JUST A

347  
00:26:40,600 --> 00:26:44,940  
SUGGSUGGESTION TO BRING  
DIFFERENT KINDS OF ACTORS.

348  
00:26:44,940 --> 00:26:50,390  
. 17  
IN THE STAR TREK REALLY HAPPENED

349  
00:26:50,390 --> 00:26:55,130  
AND WE WANT TO CELEBRATE THAT.  
>> ABSOLUTELY.

350  
00:26:55,130 --> 00:26:58,960  
SO WE CELEBRATE A LITTLE SUCCESS  
BUT WHEN YOU LOOK AT THE DATA AS

351

00:26:58,960 --> 00:27:01,520

WELL.

HERE AT NASA WE HAVE A THIRD OF

352

00:27:01,520 --> 00:27:06,360

WOMAN OVER ALL AND ENGINEERS WE  
ARE OVER 20%.

353

00:27:06,360 --> 00:27:11,010

THAT'S NOT GOOD ENOUGH FROM  
WHERE I COME FROM.

354

00:27:11,010 --> 00:27:15,500

WHAT'S THE GOAL?  
THE GOAL FOR ME IS PARITY, 50%.

355

00:27:15,500 --> 00:27:21,780

WOMAN SCIENTISTS IN NASA WE ARE  
UNDER 30%.

356

00:27:21,780 --> 00:27:28,940

WE HAVE TO CALL IT WHAT IT IS.  
IN TERMS OF WE LOOK AT GIRLS IN

357

00:27:28,940 --> 00:27:33,660

COMPUTER SCIENCE.  
TEN STATES OF LESS THAN TEN

358

00:27:33,660 --> 00:27:36,160

PEOPLE TAKING IT.  
PEOPLE, GIRLS AND BOYS.

359

00:27:36,160 --> 00:27:41,660

MY HOME STATE OF MONTANA, NOT A  
SINGLE GIRL AND NOT A SINGLE

360

00:27:41,660 --> 00:27:44,470

BOY.  
MISSISSIPPI DOESN'T HAVE A GIRL

361

00:27:44,470 --> 00:27:51,980  
TAKING AP SO, WE ARE DOING  
BETTER, WE HAD 18% TAKE IT.

362  
00:27:51,980 --> 00:27:59,050  
FROM 2014-2015.  
ANOTHER 1% INCREASE.

363  
00:27:59,050 --> 00:28:03,500  
PEOPLE ON MARS ARE IN THE 2030.  
WE'RE NOT GOING TO CLOSE THE

364  
00:28:03,500 --> 00:28:07,800  
GIRLS TAKING THE AP COMPUTER  
SIGNS EXAM.

365  
00:28:07,800 --> 00:28:14,260  
LY HAVE PEOPLE IN MARS BEFORE I  
GET 50% OF THE THE GIRLS TAKE

366  
00:28:14,260 --> 00:28:19,720  
THE COMPUTER SCIENCE.  
WE ARE ALL IN THIS TOGETHER BUT

367  
00:28:19,720 --> 00:28:23,460  
I THINK THE DATA DOES SPEAK TO  
US.

368  
00:28:23,460 --> 00:28:28,220  
>> YOU HAVE TO -- I THINK THE  
WORK IS REALLY IMPORTANT.

369  
00:28:28,220 --> 00:28:30,670  
WE HAVE THESE IDEAS OF WHO OH  
DOES WHAT.

370  
00:28:30,670 --> 00:28:38,030  
IF YOU LOOK AT THE JOBS WE THERE  
ARE 5.5 MILLION JOBS.

371

00:28:38,030 --> 00:28:41,930  
SO 600,000 JOBS OPENED ACROSS  
THE WHOLE COUNTRY IN TECHNOLOGY

372  
00:28:41,930 --> 00:28:45,600  
AND IT TAKES 50% MORE THAN THE  
AVERAGE AMERICAN SALARIES.

373  
00:28:45,600 --> 00:28:52,890  
PEOPLE DON'T GO FOR IT. 18  
THEY DON'T SEE IT ON TV.

374  
00:28:52,890 --> 00:28:54,970  
IT'S 15-1.  
IT'S WORSE FOR PEOPLE OF COLOR.

375  
00:28:54,970 --> 00:28:58,080  
WE NEED TO FEEL THE WHOLE  
AMERICAN TEAM NOT JUST A

376  
00:28:58,080 --> 00:29:00,400  
PORTION.  
WE WENT THEM ALL IN.

377  
00:29:00,400 --> 00:29:03,600  
THERE'S A LOT OF GREAT STUFF TO  
DO AND IT'S A HUGE OPPORTUNITY

378  
00:29:03,600 --> 00:29:07,210  
FOR OUR COUNTRY.  
WE STARTED TECH HIRE WHICH ARE

379  
00:29:07,210 --> 00:29:13,550  
SHORT COURSE BOOT CAMPS.  
IN A COUPLE MONTHS HE CAN GET IN

380  
00:29:13,550 --> 00:29:18,270  
AND THEY ARE REALLY PULLING IN  
AND THEY WILL TAKE AS MANY

381

00:29:18,270 --> 00:29:21,590  
TWO-YEAR AND FOUR-YEAR DEGREES  
AND THEY WANT MORE.

382  
00:29:21,590 --> 00:29:25,770  
THE ACADEMY, WE ARE SEEING GREAT  
BREAKS BECAUSE PEOPLE ARE

383  
00:29:25,770 --> 00:29:29,010  
CHANGING HOW THEY'RE TEACHING SO  
THEY'RE MAKING IT MORE ACTIVE.

384  
00:29:29,010 --> 00:29:36,890  
NINE OUT OF TEN PARENTS WANT  
CODING.

385  
00:29:36,890 --> 00:29:42,000  
SO THERE'S MONEY COMING IN FROM  
THE CORPORATION FROM NATIONAL

386  
00:29:42,000 --> 00:29:45,250  
COMMUNITY SERVICE.  
REQUESTING CONGRESS IN THE

387  
00:29:45,250 --> 00:29:48,830  
BUDGET TO HELP TRAIN ALL THE  
TEACHERS SO WE CAN TEACH

388  
00:29:48,830 --> 00:29:52,501  
COMPUTATIONAL THINKING.  
WOULDN'T IT BE FUN IF YOU WERE

389  
00:29:52,501 --> 00:30:02,480  
IN THIRD GRADE AND DOING  
MYSTERIES AND HAD TO DO CRIPTA.

390  
00:30:02,480 --> 00:30:06,500  
IN THE MIDDLE OF WRITING THE DA  
VINCI CODE.

391

00:30:06,500 --> 00:30:13,800  
HOW DO WE MAKE PEOPLE FEEL LIKE  
THERE'S NASA PEOPLE.

392  
00:30:13,800 --> 00:30:16,430  
IT'S NOT TRUE.  
THERE WERE FABULOUS KIDS ON

393  
00:30:16,430 --> 00:30:23,970  
STAGE YESTERDAY.  
THEY HAD THEIR VIDEO AND DOING

394  
00:30:23,970 --> 00:30:28,840  
COMBINATIONS IN A SILENT MOVIE  
VIDEO THAT THEY WERE ONE OF THE

395  
00:30:28,840 --> 00:30:32,710  
FINALISTS FOR MS. COUNT BUT HOW  
DO WE KEEP IT THAT WAY?

396  
00:30:32,710 --> 00:30:43,140  
>> IT'S TEACHING AND EMERSION.  
I DEDICATED MY ENTIRE LIFE TO

397  
00:30:43,140 --> 00:30:49,690  
TEACHING.  
WE ARE ON OUR JOURNEY TO MARS.

398  
00:30:49,690 --> 00:30:53,480  
WE NEED THE ARTIST, WE NEED 19  
THE STORY TELLERS.

399  
00:30:53,480 --> 00:30:57,410  
THOSE ARE THE VISIONARIES.  
THEY TELL OUR STORIES.

400  
00:30:57,410 --> 00:30:59,350  
IN THIS JOB I PUT A "D" ON THE  
END.

401

00:30:59,350 --> 00:31:03,310  
VERY INTENTIONALLY.  
WERE NOT MAKING MUCH MORE

402  
00:31:03,310 --> 00:31:14,380  
PROGRESS MUCH MORE QUICKLY.  
WE HAVE A 3-D GENERATION OUT

403  
00:31:14,380 --> 00:31:15,790  
THERE.  
>> YEAH.

404  
00:31:15,790 --> 00:31:18,520  
AND ADREANA.  
WE NEED -- AND THERE'S

405  
00:31:18,520 --> 00:31:21,370  
TECHNOLOGY AND SHE SEES  
TECHNOLOGY EVERY DAY.

406  
00:31:21,370 --> 00:31:25,390  
I SEE THE NASA TECHNOLOGY EVERY  
DAY WHICH IS COOL.

407  
00:31:25,390 --> 00:31:28,940  
>> IT'S BOARD THAT COMES ON TOUR  
CELL PHONE.

408  
00:31:28,940 --> 00:31:31,690  
THESE ARE \$5 THAT YOU ARE  
TEACHING IN SECOND GRADE AND

409  
00:31:31,690 --> 00:31:37,190  
THOUSAND DO DO THIS.  
AND ON TO FAIRS AND INTERNET AND

410  
00:31:37,190 --> 00:31:40,960  
THINGS.  
SO, HOW DO WE GET OUR CHILDREN

411

00:31:40,960 --> 00:31:46,220  
TO FEEL LIKE NOT JUST USERS OF  
TECH BUT CREATORS AT ALL LEVELS.

412  
00:31:46,220 --> 00:31:48,200  
THINGS THAT THEY ARE PASSIONATE  
ABOUT.

413  
00:31:48,200 --> 00:31:50,510  
WHETHER THEY WANT TO DO FILM  
MAKING LIKE KIDS WITH THEIR MASK

414  
00:31:50,510 --> 00:31:55,330  
FILMS OR HELP CONTRIBUTE TO  
CITIZEN'S SCIENCE.

415  
00:31:55,330 --> 00:31:59,320  
>> CHANGING THE WORLD.  
THINK ABOUT THAT.

416  
00:31:59,320 --> 00:32:03,050  
THE NAGAL ACADEMY OF  
ENGINEERING -- THE NATIONAL

417  
00:32:03,050 --> 00:32:06,260  
ACADEMY OF ENGINEERING, THAT WAS  
NEVER TAUGHT BY A FEMALE.

418  
00:32:06,260 --> 00:32:11,640  
I NEVER MET A FEMALE ENGINEER.  
IF YOU CAN'T SEE YOURSELF, THEN

419  
00:32:11,640 --> 00:32:15,000  
THE IT IT'S HARD.  
BUT WHAT ABOUT THIS, WE USED TO

420  
00:32:15,000 --> 00:32:20,680  
SAY OUR GENERATION YOU HAD TO BE  
THE BEST IN PHYSICSS, THE BEST

421

00:32:20,680 --> 00:32:23,780  
IN MATH, CHEMISTRY, HOW  
INTIMIDATING IS THAT?

422

00:32:23,780 --> 00:32:27,320  
YOU FILTER PEOPLE OUT.  
YOU NEED TO FILTER PEOPLE IN.

423

00:32:27,320 --> 00:32:30,140  
WHAT DO YOU LOVE. 20  
WHAT'S YOUR PASSION?

424

00:32:30,140 --> 00:32:36,390  
BUILD UP ROCKETS.  
WHO GOES TO MARS.

425

00:32:36,390 --> 00:32:39,810  
WHO ARE THESE INCREDIBLE  
HISTORICAL WOMAN CALLED

426

00:32:39,810 --> 00:32:43,280  
COMPUTERS.  
YOUR IPHONE IS A COMPUTER.

427

00:32:43,280 --> 00:32:46,180  
>> UNBELIEVABLE SMART  
MATHEMATICIANS BUT YOU NEED TO

428

00:32:46,180 --> 00:32:51,690  
CHANGE THE IMAGEING.  
YOU HAVE TO SEE YOURSELF.

429

00:32:51,690 --> 00:32:54,330  
>> YOU KNOW WHAT IT'S FOR AND  
YOU ARE ENCOURAGED AND YOU

430

00:32:54,330 --> 00:32:59,060  
ACTUALLY TRY IT.  
IT MAY FEEL LIKE GYM CLASS, OR

431

00:32:59,060 --> 00:33:04,770  
MUSIC CLASS, EXPLORE TOGETHER  
AND NOT MAKE PEOPLE BORED OR TIN

432  
00:33:04,770 --> 00:33:08,770  
TIM INTIMATED.  
>> OR TEAM WORK.

433  
00:33:08,770 --> 00:33:11,350  
I DON'T WANT TO WORK WITH PEOPLE  
LIKE ME.

434  
00:33:11,350 --> 00:33:14,600  
HOW BORING IS THAT?  
I NEED COMPUTER SCIENCE.

435  
00:33:14,600 --> 00:33:18,010  
I NEED GEOLOGISTS.  
NIECE ARE THE FRIENDS I WANT.

436  
00:33:18,010 --> 00:33:22,100  
I KNOW WE WILL SERVE MORE WORLD  
PROBLEMS IF WE GET THE DIVERSITY

437  
00:33:22,100 --> 00:33:25,070  
IN.  
THAT'S STANDARD.

438  
00:33:25,070 --> 00:33:28,600  
THAT'S RACIAL DIVERSITY.  
WALK IN SOMEONE EL'S ELSE'S

439  
00:33:28,600 --> 00:33:32,270  
SHOES.  
I HAVE TO SEE HOW SOMEONE ELSE

440  
00:33:32,270 --> 00:33:37,960  
THINKS.  
>> YES, THESE ARE THE

441

00:33:37,960 --> 00:33:41,950  
SUSTAINABLE DEVELOPMENT GOALS.  
>> IN FROM THE UNITED NATIONS.

442  
00:33:41,950 --> 00:33:46,510  
>> SO THE UNITED NATIONS ARE  
CALL.

443  
00:33:46,510 --> 00:33:48,650  
IT'S SO INCREDIBLE TO WORK  
ACROSS ALL THE DIFFERENT

444  
00:33:48,650 --> 00:33:55,280  
COUNTRIES TOGETHER.  
SO, THE SUSTAINABLE DEVELOPMENT

445  
00:33:55,280 --> 00:33:59,370  
GOALS ARE A GROUP OF GOALS THAT  
WERE DEVELOPED BY THE COUNTRIES

446  
00:33:59,370 --> 00:34:01,670  
THAT CIVIL SOCIETY AND  
SCIENTISTS AND EVERYONE

447  
00:34:01,670 --> 00:34:06,000  
COLLABORATING TO TAKE THE GOALS.  
THIS IS IN THE NEXT THE 15

448  
00:34:06,000 --> 00:34:08,899  
YEARS. 21  
WHAT DO WE NEED TO DO?

449  
00:34:08,899 --> 00:34:13,889  
IT'S INCREDIBLY COMPREHENSIVE.  
WHETHER YOU LOOK AT EQUALITY,

450  
00:34:13,889 --> 00:34:19,330  
LIFE ON WATER, LIFE ON LAND,  
JUSTICE AND PEACE.

451

00:34:19,330 --> 00:34:22,869  
WATER AND CONSUMPTION IN A  
SUSTAINABLE WAY.

452  
00:34:22,869 --> 00:34:27,200  
SMART CITIES AND WHAT ARE THE  
SKY OR MARS THEIR BEYOND THE

453  
00:34:27,200 --> 00:34:31,340  
LIMITS AS FAR AS WHAT DO WE DO  
TO BRING EVERYBODY ALONG.

454  
00:34:31,340 --> 00:34:36,750  
IT'S UNLIKE THE TALENT.  
WE HAVE A CLAP COLLABORATION

455  
00:34:36,750 --> 00:34:43,179  
WHERE WE ASKED THE U.N. AND WE  
MET.

456  
00:34:43,179 --> 00:34:46,230  
PEOPLE ALREADY HAD SOLUTIONS TO  
THESE.

457  
00:34:46,230 --> 00:34:49,389  
THEY RECOMMEND PEOPLE.  
GO FIND THESE INCREDIBLE

458  
00:34:49,389 --> 00:34:52,280  
ENTREPRENEURS IN YOUR  
COMMUNITIES AND ASK THEM TO TELL

459  
00:34:52,280 --> 00:34:59,930  
YOU WHAT THEY ARE DOING.  
THEY PUT UP THIS WEB FORM AND

460  
00:34:59,930 --> 00:35:04,040  
THE SCIENCE MINISTRIES AND  
ACROSS THE WORLD.

461

00:35:04,040 --> 00:35:08,790  
THERE WERE 800 SUBMISSIONS FROM  
A HUNDRED COUNTRIES DOING

462  
00:35:08,790 --> 00:35:13,310  
EXTRAORDINARY TEAMS.  
THIS IS A FLYING DRONE TEAM.

463  
00:35:13,310 --> 00:35:19,190  
THEIR GOAL IS TO PLANT TREES IN  
A PROGRAM.

464  
00:35:19,190 --> 00:35:24,830  
CHEMICAL ENGINEER OUTDOING SOLAR  
LIGHTING AND MICROENTERPRISE AND

465  
00:35:24,830 --> 00:35:28,200  
THIS MISSION WITH AN ADVANCED  
SOLUTION UP IN THE CORNER.

466  
00:35:28,200 --> 00:35:34,160  
THE TEAM HERE IS MANY PEOPLE  
DON'T HAVE REPRESENTATION IN

467  
00:35:34,160 --> 00:35:37,540  
PRISON.  
SO THEY DON'T HAVE ENOUGH.

468  
00:35:37,540 --> 00:35:41,470  
SO PEOPLE TEACHING LAW IN THE  
PRISON AND PEOPLE ARE

469  
00:35:41,470 --> 00:35:44,780  
REPRESENTING THEMSELVES.  
A WOMAN GOT HER OFF DEATH ROW

470  
00:35:44,780 --> 00:35:50,310  
FROM CAPITOL PUNISHMENT.  
EVERYONE IS AWESOME ON THIS

471

00:35:50,310 --> 00:35:51,371

PLANET.

HOW DO WE HELP THEM TO HAVE THE

472

00:35:51,371 --> 00:35:58,250

CON CONFIDENCE TO DO THEIR  
THING.

473

00:35:58,250 --> 00:36:04,119

IT WOULD REPRESENT TO GET MOVING 22  
AND THAT HAPPENED.

474

00:36:04,119 --> 00:36:07,120

ONE OF MY FAVORITES IS A  
MECHANICAL ENGINEER AS WE GO IN

475

00:36:07,120 --> 00:36:10,460

THE WEEK OF MAKING IS THIS  
BEAUTIFUL AM AND HERE.

476

00:36:10,460 --> 00:36:14,730

IT IS THIS BEAUTIFUL IMAGE HERE.  
THEY ARE RUNNING IN A LAB.

477

00:36:14,730 --> 00:36:18,530

THERE ARE HUNDREDS OF LABS  
AROUND THE PLANET.

478

00:36:18,530 --> 00:36:22,920

IT'S LIKE THE SHOP, HOME-EC AND  
ART ROOM IT'S A PLACE WHERE

479

00:36:22,920 --> 00:36:26,040

PEOPLE CAN HELP YOU MAKE  
ANYTHING.

480

00:36:26,040 --> 00:36:29,140

CAN YOU IMAGINE THE AMAZON.  
THE TALENT THERE WITH DIVERSITY

481

00:36:29,140 --> 00:36:35,510  
AND KNOWLEDGE.  
PEOPLE WOULD GET UP THERE IF

482  
00:36:35,510 --> 00:36:37,661  
THEY HAD 3-D PRINTING AND  
CAPABILITIES.

483  
00:36:37,661 --> 00:36:39,290  
IT WOULD BE AVAILABLE TO  
EVERYONE.

484  
00:36:39,290 --> 00:36:45,030  
THERE IS A TEAM, A BRAZILIAN  
TEAM BUILDING THIS IDEA.

485  
00:36:45,030 --> 00:36:48,210  
WE HOPE THAT ALL AMERICAN KIDS  
AND KIDS AROUND WORLD WILL HAVE

486  
00:36:48,210 --> 00:36:50,470  
ACCESS.  
IF YOU KNOW ABOUT THE NAGAL WEEK

487  
00:36:50,470 --> 00:36:53,570  
OF MAKING, -- IF YOU KNOW ABOUT  
THE NATIONAL WEEK OF MAKING.

488  
00:36:53,570 --> 00:36:59,400  
IF YOU DON'T, GO LOOK ONLINE.  
I WAS THINKING OF THIS LITTLE

489  
00:36:59,400 --> 00:37:04,650  
BOARD, STEVE JOBS HAD A BOARD  
AND IT WAS LITTLE BIGGER.

490  
00:37:04,650 --> 00:37:07,690  
THEY PLAYED AROUND WITH THESE  
IDEAS AND WHAT CAME OUT OF THAT?

491

00:37:07,690 --> 00:37:09,902  
THE APPLE COMPUTER.  
>> THEY HAD THE MOSTDY SRAOERS

492  
00:37:09,902 --> 00:37:10,902  
TEAM.  
-- THEY HAD THE MOST DIVERSE

493  
00:37:10,902 --> 00:37:14,470  
TEAM.  
THERE WERE SOME DESIGNER,

494  
00:37:14,470 --> 00:37:22,370  
ENGINEERS AND THEY PUT TOGETHER  
PEOPLE WHO ACTUALLY LOVED IT.

495  
00:37:22,370 --> 00:37:26,610  
IT WAS INSANELY GREAT.  
THAT IS A CLEAR MISSION I.

496  
00:37:26,610 --> 00:37:30,980  
INSANELY GREAT.  
YOU JUST WANT TO BE EBG LENT.

497  
00:37:30,980 --> 00:37:36,670  
WE -- EXCELLENT.  
WE WANT TO LIFT HUMANITY AND

498  
00:37:36,670 --> 00:37:39,690  
OBTAIN -- IF IT'S POSSIBLE, THEN 23  
WE ARE IN.

499  
00:37:39,690 --> 00:37:42,910  
IT U NEEDS TO SEEM IMPOSSIBLE  
BECAUSE THAT'S WHEN YOU BRING

500  
00:37:42,910 --> 00:37:46,030  
THE BEST IN.  
>> YES, COLLECT ALL THESE

501

00:37:46,030 --> 00:37:52,800

PEOPLE.

YOU MENTIONED THE TEAM THAT

502

00:37:52,800 --> 00:37:56,500

HAD -- A LOT OF TIMES, IF YOU GO  
ONLINE AND LOOK UP THE HISTORIC

503

00:37:56,500 --> 00:38:00,330

PHOTOS OF THE THE MACINTOSH TEAM  
THERE'S LOTS OF MEN AND WOMAN

504

00:38:00,330 --> 00:38:03,910

TOGETHER IN THOSE PHOTOSS.  
FOR SOME REASON YOU KEEP

505

00:38:03,910 --> 00:38:10,550

WRITING -- SUSAN WAS JUST IN THE  
WHITE HOUSE AND A LOT USING A

506

00:38:10,550 --> 00:38:16,060

LOT OF HER INTERFACE DESIGN.  
SHE IS A PERSON WHO CAN TAKE

507

00:38:16,060 --> 00:38:20,850

THOSE IDEASS AND MAKE THEM WORK  
IN THIS TINY MEMORY FOOTPRINT

508

00:38:20,850 --> 00:38:25,990

THE CHICAGO FONT.  
SHE SAID YOU THINK THIS IS

509

00:38:25,990 --> 00:38:30,430

AWESOME AND SHE POPPED UP A  
PICTURE OF PYRO.

510

00:38:30,430 --> 00:38:40,369

WOMAN LIKE HERSELF HAVE  
EXTRAORDINARY ART TO YOUR POINT

511

00:38:40,369 --> 00:38:43,940  
ON ALL OF US AND HOW WE INTERACT  
WITH OUR DEVICES AND THE

512  
00:38:43,940 --> 00:38:46,800  
BEAUTIFUL GRAPHICS AND SHE KICKS  
US OFF IN THIS DIGITAL CENTURY

513  
00:38:46,800 --> 00:38:53,360  
THAT WE LIVE IN.  
>> MEGAN AND I TALK ABOUT THIS,

514  
00:38:53,360 --> 00:38:57,590  
WRITING HISTORY.  
WRITING OUR OWN HISTORY.

515  
00:38:57,590 --> 00:39:00,680  
WOMAN ARE NOT IN.  
HOW MANY PEOPLE KNOW ABOUT

516  
00:39:00,680 --> 00:39:06,390  
KATHERINE JOHNSON.  
YOU NEED TO WRITE OUR OWN

517  
00:39:06,390 --> 00:39:07,570  
HISTORY BECAUSE WE HAVE  
PIONEERS.

518  
00:39:07,570 --> 00:39:11,000  
WE NEED TO PUT UP A BLOG JUST  
FOR FUN.

519  
00:39:11,000 --> 00:39:13,940  
THERE'S TEN NASA WOMAN THAT WE  
DON'T THINK EVEN NASA WOMAN KNOW

520  
00:39:13,940 --> 00:39:16,560  
ABOUT IT.  
WE WILL CELEBRATE THESE

521

00:39:16,560 --> 00:39:19,830

PIONEERS.

IT IS ON OUR WATCH TO WRITE

522

00:39:19,830 --> 00:39:22,690

HISTORY AS WE SEE IT.

THESE HOW HISTORY IS WRITTEN.

523

00:39:22,690 --> 00:39:26,170

IF YOU DON'T WRITE IT, YOU'RE 24

NOT IN IT.

524

00:39:26,170 --> 00:39:29,430

>> A DATA RELATES TO SOMETHING I

WANT TO GIVE YOU.

525

00:39:29,430 --> 00:39:34,760

THIS IS A PIN.

IT WAS DESIGNED BY ALICE.

526

00:39:34,760 --> 00:39:40,010

WE MENTIONED HER YESTERDAY.

MOST PEOPLE DON'T KNOW ABOUT

527

00:39:40,010 --> 00:39:45,630

ALICE.

WHEN SUSAN B.ANTHONY DIED, ALICE

528

00:39:45,630 --> 00:39:52,670

BECAME THE FIFTH YEAR LEADER.

SHE CAME MANY TO WASHINGTON.

529

00:39:52,670 --> 00:39:56,570

SHE ORGANIZEED A PARADE DOWN

PENNSYLVANIA AVENUE RIGHT OUT

530

00:39:56,570 --> 00:39:58,650

HERE FROM CONGRESS TO THE

TREASURY STEPS.

531

00:39:58,650 --> 00:40:05,550  
THAT IS THE DESIGN.  
THE PARADE OF ELIZABETH AND HER

532  
00:40:05,550 --> 00:40:08,880  
TROOPS.  
SO THEY WILL BE ON IT.

533  
00:40:08,880 --> 00:40:13,280  
SO IN THAT PARADE, WAS ONE OF  
OUR GREATEST AMERICAN DATA

534  
00:40:13,280 --> 00:40:20,140  
SCIENTISTS IDAB.WELLS.  
SHE IS AN INCREDIBLE JOURNAL IS

535  
00:40:20,140 --> 00:40:21,869  
IN THE 1800s.  
SHE REALLY SOCIAL CHANGED.

536  
00:40:21,869 --> 00:40:24,751  
SHE USED DATA SCIENCE TO  
COMMUNICATE TO AMERICAN WHAT WE

537  
00:40:24,751 --> 00:40:32,800  
WERE DOING WITH LYNCHNESS.  
SHE CHANGED THE PEOPLE'S HEARTS

538  
00:40:32,800 --> 00:40:37,400  
AND MINDS.  
THERE WAS AN IDEA THAT SHE WOULD

539  
00:40:37,400 --> 00:40:39,650  
MARCH WITH THE ILLINOIS  
CONTINGENT AND THE

540  
00:40:39,650 --> 00:40:42,140  
AFRICAN-AMERICAN PEOPLE WOULD  
MARCH IN THE BACK.

541

00:40:42,140 --> 00:40:47,110  
IT IT WAS FIRST PUBLIC EVENT.  
HELEN KELLER WAS IN THIS MARCH.

542  
00:40:47,110 --> 00:40:55,720  
THERE'S A WONDERFUL SET UP THAT  
WAS ON THE COVER OF THE CHICAGO

543  
00:40:55,720 --> 00:40:58,100  
TRIBUNE.  
LET'S THINK ABOUT IDA AND DATA

544  
00:40:58,100 --> 00:41:03,980  
SCIENCE AND SOCIAL CHANGE AND  
WHAT KIND OF PEACE ABOUT

545  
00:41:03,980 --> 00:41:08,240  
JUSTICE.  
LOOKING AT DATA SCIENCE EARLIER

546  
00:41:08,240 --> 00:41:11,920  
THIS WEEK, SO WE CAN SOLVE SO  
MANY PROBLEMS.

547  
00:41:11,920 --> 00:41:14,290  
ENVIRONMENTAL PROBLEMS,  
EXPLORATION PROBLEMS.

548  
00:41:14,290 --> 00:41:17,089  
>> WORKING TOGETHER. 25  
>> THIS IS FOR YOU.

549  
00:41:17,089 --> 00:41:19,980  
>> THANK YOU.  
>> THIS IS WHAT ALICE DESIGNED

550  
00:41:19,980 --> 00:41:24,290  
TO THE WOMAN WHO WENT TO JAIL  
STANDING ON THE WHITE HOUSE

551

00:41:24,290 --> 00:41:27,690

FENCE.

THE FIRST IN THE HISTORY OF THE

552

00:41:27,690 --> 00:41:32,200

UNITED STATES WITH 2 ,000 WOMAN

ACROSS TWO YEARS FROM 1917-1919

553

00:41:32,200 --> 00:41:36,320

TOGETHER.

IF YOU WENT, YOU GOT ONE OF

554

00:41:36,320 --> 00:41:44,270

THESE PINS.

THE NEW MONUMENT IS NEXT TO

555

00:41:44,270 --> 00:41:48,700

CONGRESS NOW IS DEDICATED BY THE

PRESIDENT ABOUT A MONTH AGO.

556

00:41:48,700 --> 00:41:51,210

SO PEOPLE SHOULD VISIT AND LEARN

THAT HISTORY.

557

00:41:51,210 --> 00:41:54,550

>> WE WILL THANK YOU, MEGAN.

WE WILL KEEP YOU TALKING.

558

00:41:54,550 --> 00:41:57,460

THERE ARE TOO MANY PEOPLE OUT

THERE THAT WE WANT TO TALK TO.

559

00:41:57,460 --> 00:42:05,430

WE WILL OPEN IT UP TO Q&A.

HOW ABOUT COMING TO GOVERNMENT.

560

00:42:05,430 --> 00:42:10,590

WHAT ABOUT THE OPPORTUNITIES IN

GOVERNMENT AND WE WILL WALK

561

00:42:10,590 --> 00:42:13,000  
AROUND AND GET SOME OF YOUR  
QUESTIONS.

562  
00:42:13,000 --> 00:42:16,040  
PERFECT.  
>> I WILL TAKE ADVANTAGE OF

563  
00:42:16,040 --> 00:42:18,670  
BEING THE MODERATOR TO ASK THE  
FIRST QUESTION.

564  
00:42:18,670 --> 00:42:22,910  
THAT QUESTION IS, ONE OF THE  
OBJECTIVES TODAY IS HOW TO

565  
00:42:22,910 --> 00:42:28,350  
ENGAGE IN THE NEWCOMERS.  
YOU ARE EXPERIENCEED IN BEING

566  
00:42:28,350 --> 00:42:35,560  
RECRUITED TO STEM.  
HOW WERE YOU ATTRACTED TO A STEM

567  
00:42:35,560 --> 00:42:38,080  
FIELD?  
>> I THINK ALMOST EVERYBODY

568  
00:42:38,080 --> 00:42:44,690  
WHO -- WHATEVER PASSION OR  
CAREER YOU FOLLOW YOU CAN POINT

569  
00:42:44,690 --> 00:42:49,810  
TO A MOMENT WHEN YOU GOT  
ENGAGED.

570  
00:42:49,810 --> 00:42:53,410  
THE MOMENT FOR ME ARE EXAMPLES  
THAT IN NASA RESEARCH

571

00:42:53,410 --> 00:42:56,590  
UNDERSTANDING WHAT IT'S FOR AND  
HAVING CONFIDENCE THAT YOU CAN

572  
00:42:56,590 --> 00:43:00,380  
DO IT.  
BEING ENCOURAGED AND FOR ME IT

573  
00:43:00,380 --> 00:43:04,609  
WAS PRESIDENT CARTER PUTTING 26  
SOLAR PANELS ON THE WHITE HOUSE.

574  
00:43:04,609 --> 00:43:12,100  
MY SCHOOL REQUIRING MAKING SURE  
THAT WE HAD EXPERIENCES THAT ALL

575  
00:43:12,100 --> 00:43:16,580  
KIDS, NOT -- THEY WOULD BE  
DEGRUDGING ME.

576  
00:43:16,580 --> 00:43:24,040  
IT'S THE SCIENCE FAIR.  
SO, I DID ALL MY PROJECTS WITH

577  
00:43:24,040 --> 00:43:29,480  
WIND AND SOLAR AND OTHER TYPES  
OF THINGS THROUGHOUT HIGH SCHOOL

578  
00:43:29,480 --> 00:43:33,980  
AND I BECAME A MECHANICAL  
ENGINEER BECAUSE OF THOSE

579  
00:43:33,980 --> 00:43:35,080  
TECHNOLOGIESS.  
>> INTERESTING.

580  
00:43:35,080 --> 00:43:39,950  
IT FOR ME IT WAS PROBABLY  
PRESIDENT REAGAN.

581

00:43:39,950 --> 00:43:45,990  
I WANTED TO BE A LAWYER.  
NO ONE HAD GIVEN ME THAT

582  
00:43:45,990 --> 00:43:49,480  
MENTORING AND I HADN'T MET MANY  
ENGINEERS.

583  
00:43:49,480 --> 00:43:53,050  
I HAD ONE UNCLE WHO BECAME A  
BIO-MEDICAL ENGINEER.

584  
00:43:53,050 --> 00:44:02,890  
YOU NEED NEED ONE.  
GOING BACK TO

585  
00:44:02,890 --> 00:44:06,220  
IF THE REAGAN, I  
WAS A COLLEGE STUDENT.

586  
00:44:06,220 --> 00:44:08,340  
I SAID WE NEED TO GET THIS  
RIGHT.

587  
00:44:08,340 --> 00:44:13,300  
LET'S EXPLORE.  
I WAS HONORED YESTERDAY TO BE

588  
00:44:13,300 --> 00:44:16,859  
ABLE TO GIVE A SPEECH AT THE  
U.N. ON THE COMMITTEE ON THE

589  
00:44:16,859 --> 00:44:20,140  
USES OF OUTER SPACE.  
IT TAKES FULL CIRCLE.

590  
00:44:20,140 --> 00:44:22,250  
HOW DO YOU DO THAT?  
MECHANICAL?

591

00:44:22,250 --> 00:44:31,180  
I COULDN'T EVEN FIX MY CAR.  
NOW, I LOVE TO FLY AND THE

592  
00:44:31,180 --> 00:44:35,660  
"APOLLO" PROGRAM.  
I WAS YOUNG GIRL GROWING UP IN

593  
00:44:35,660 --> 00:44:39,000  
THE '60s.  
THAT MAKES YOU DREAM BIG.

594  
00:44:39,000 --> 00:44:45,420  
WE SENT MEN TO THE MOON.  
A FEW THINGS.

595  
00:44:45,420 --> 00:44:53,380  
THERE WERE PROJECTS BUT ALSO THE  
APOLLO PROGRAM IS THE REASON WHY

596  
00:44:53,380 --> 00:44:57,170  
I'M FLYING HERE TODAY.  
>> YES THAT CONNECTION IS PULL

597  
00:44:57,170 --> 00:45:03,230  
SOMETHING THAT MATTERS.  
YOU HAVE AN ENERGY CRISIS.

598  
00:45:03,230 --> 00:45:08,829  
YOU HAVE A PART OF IT. IT IS IN  
THAT WAY. 27

599  
00:45:08,829 --> 00:45:12,650  
>> ISSUES, THE PROBLEMS, THAT WE  
DO WANT AND TAKE A PICTURE AND

600  
00:45:12,650 --> 00:45:15,220  
DREAM AND MAKE IT BETTER.  
ALL OF OUR EXPLOREING, I --

601

00:45:15,220 --> 00:45:21,850  
EXPLOREING, I STILL CONTINUE  
PLUTO AS A DWARF PLANET.

602  
00:45:21,850 --> 00:45:25,760  
>> I COUNT IT.  
>> SO ALL OF OUR STORIES GOING

603  
00:45:25,760 --> 00:45:39,710  
TO JUPITER AND COME WITH US.  
WE CAN MAYBE GET SOME OF THIS

604  
00:45:39,710 --> 00:45:45,080  
RIGHT.  
>> I JUST FLASHED ON GALILEO AND

605  
00:45:45,080 --> 00:45:49,750  
HOW AMAZING THE TEAM.  
THERE'S A GREAT CLIP ON IT.

606  
00:45:49,750 --> 00:45:52,690  
>> IF YOU HAVEN'T SEEN GALILEO'S  
DAUGHTER.

607  
00:45:52,690 --> 00:45:57,650  
IT'S GREAT.  
>> I SECOND THAT.

608  
00:45:57,650 --> 00:46:03,240  
I LOVE THAT BOOK.  
IF YOU HAVE A QUESTION -- WE

609  
00:46:03,240 --> 00:46:06,520  
HAVE A QUESTION.  
PEOPLE WAY IN THE BACK.

610  
00:46:06,520 --> 00:46:10,420  
>> HI, LADIES.  
I AM A CO-FOUNDER THAT IS

611

00:46:10,420 --> 00:46:14,100  
DEDICATED THE TRANSFORMING  
GIVING LANDSCAPE THROUGH THE USE

612  
00:46:14,100 --> 00:46:19,109  
OF TECHNOLOGY.  
AS A WOMAN, I'M VERY IMPRESSED

613  
00:46:19,109 --> 00:46:22,660  
AND EMPOWERED BY WHAT YOU ARE  
SHARING WITH US HERE TODAY.

614  
00:46:22,660 --> 00:46:28,359  
MY QUESTION FOR YOU, CAME FROM  
THE PRIVATE SECTOR, GOOGLE, A

615  
00:46:28,359 --> 00:46:31,500  
DISRUPTIVE COMPANY, THE TRUTH  
HOW YOU'RE BRINGING DESTRUCTION

616  
00:46:31,500 --> 00:46:40,800  
TO THE U.S. GOVERNMENT AND HOW  
YOU WILL CREATE A CHANGE.

617  
00:46:40,800 --> 00:46:43,850  
>> IT'S AN HONOR TO BE HERE  
WORKING FOR PRESIDENT AND

618  
00:46:43,850 --> 00:46:48,130  
WORKING FOR THE COUNTRY AND IN  
THESE POSITIONS.

619  
00:46:48,130 --> 00:46:51,140  
WE HAVE SO MUCH RESOURCE IN THE  
U.S. GOVERNMENT AND SO MUCH

620  
00:46:51,140 --> 00:46:55,060  
TALENT THAT MY COLLEGE FOUND  
AMAZING.

621

00:46:55,060 --> 00:47:02,850  
THEY KNOW EXTRAORDINARY THINGS.  
SO, WE HAVEN'T HAD -- IN THE

622  
00:47:02,850 --> 00:47:05,810  
CASE OF THE THE CTO, HE CREATED  
THIS POSITION.

623  
00:47:05,810 --> 00:47:10,751  
IT'S A SCIENCE ADVISOR.  
WE ALWAYS HAD AMAZING SCIENCE 28

624  
00:47:10,751 --> 00:47:16,330  
AND TECHNOLOGY IN OUR COUNTRY.  
PRESIDENT WASHINGTON STARTED

625  
00:47:16,330 --> 00:47:23,400  
BEFORE THE COUNTRY WAS FOUNDED.  
SO MANY GREAT IN SCIENCE AND

626  
00:47:23,400 --> 00:47:26,859  
TECH AND NASA IS SO MUCH PART OF  
THAT HERITAGE.

627  
00:47:26,859 --> 00:47:32,400  
RIGHT NOW MORE OF OUR DIGITAL  
TECHY AMERICANS.

628  
00:47:32,400 --> 00:47:38,520  
HE WAS AT THE SOUTH BY SOUTHWEST  
CONFERENCE.

629  
00:47:38,520 --> 00:47:48,160  
WE WERE IN THE ART SIDE AND OUR  
DESIGNERS AND CODERS.

630  
00:47:48,160 --> 00:47:51,810  
I NEED YOU TO COME IN TO  
GOVERNMENT IN ROTATION LIKE THE

631

00:47:51,810 --> 00:47:58,210  
SURGEON GENERAL, LIKE OUR  
LAWYER, LIKE OUR SCIENTISTS AND

632  
00:47:58,210 --> 00:48:01,690  
ECONOMISTS AND I NEED YOU TO THE  
COME.

633  
00:48:01,690 --> 00:48:06,070  
I NEED YOU TO HELP ME.  
>> SO, MODERNIZING THE

634  
00:48:06,070 --> 00:48:11,160  
GOVERNMENT.  
WE WERE ADDING TO THEM.

635  
00:48:11,160 --> 00:48:16,970  
THE U.S. CIVIL SERVICE AT GSA,  
PRESIDENTIAL INVASION -- ALSO

636  
00:48:16,970 --> 00:48:20,330  
TECHNICAL CIOs.  
PROBABLY NOT -- THE PRESIDENT

637  
00:48:20,330 --> 00:48:30,260  
WAS ALSO ASKING, COME AND COME  
SOLVE THESE HARDER PROBLEMS

638  
00:48:30,260 --> 00:48:33,849  
BECAUSE WE NEED YOUR SKILL MIXED  
WITH THE OTHERS.

639  
00:48:33,849 --> 00:48:39,070  
WORLD POVERTY, CLIMATE CHANGE,  
ALL THESE ISSUES SO WE NEED ALL

640  
00:48:39,070 --> 00:48:42,270  
AMERICANS IN.  
SO HE'S COLLECTING THAT GROUP

641

00:48:42,270 --> 00:48:44,910  
NOW AND IT'S BEEN AN HONOR TO DO  
IT.

642  
00:48:44,910 --> 00:48:49,910  
OUR TEAM IS ABOUT THE CUT LIKE  
IQ AND EQ AND TQ.

643  
00:48:49,910 --> 00:48:55,991  
MAKING SURE THERE'S TQ.  
PEOPLE IN THE ROOM SO WE ARE NOT

644  
00:48:55,991 --> 00:48:59,330  
LEAVING THAT OUT BUT THE  
ARCHITECTURE IS BEING

645  
00:48:59,330 --> 00:49:05,760  
INFLUENCED.  
WE ARE DOING AWESOME DATA PLANS

646  
00:49:05,760 --> 00:49:11,070  
AND OTHER SYSTEMS.  
ALSO TO CAPACITY BUILT -- THE

647  
00:49:11,070 --> 00:49:13,960  
GOVERNMENT ITSELF AND WE ARE IN  
THE MIDDLE.

648  
00:49:13,960 --> 00:49:21,900  
BUILD THE  
AMERICAN PEOPLE.

649  
00:49:21,900 --> 00:49:27,990  
TECH HIRE IS AN EXAMPLE OF 29  
MAKERS USING DATA SCIENCE.

650  
00:49:27,990 --> 00:49:32,359  
ALL OF THOSE PIECES -- I WAS  
RECENTLY LOOKING AT WE DON'T

651

00:49:32,359 --> 00:49:36,190  
COMMENT ON THE ELECTION BUT I E  
WAS WATCHING SOME OF THE

652  
00:49:36,190 --> 00:49:39,960  
CANDIDATES IN WEST VIRGINIA AND  
THEY ENDED UP IN A SOUTHERN

653  
00:49:39,960 --> 00:49:45,070  
COUNTY AND I REMEMBERED THAT MY  
FRIEND HOMER WHO WROTE "ROCKET

654  
00:49:45,070 --> 00:49:48,460  
BOY."  
WAS FROM THERE.

655  
00:49:48,460 --> 00:49:52,840  
THE CAPACITY BUILDING AND I READ  
SOME OF THE LINES OF PEOPLE

656  
00:49:52,840 --> 00:49:55,420  
TALKING ABOUT POVERTY IN THAT  
COUNTY.

657  
00:49:55,420 --> 00:50:00,641  
35% UNEMPLOYMENT PERSISTENT.  
I WENT TO GO LOOK AT IF IT WAS

658  
00:50:00,641 --> 00:50:05,350  
THE SAME COUNTY.  
THAT'S WHERE HE GREW UP.

659  
00:50:05,350 --> 00:50:10,640  
AMAZING TRAINED ASTRONAUTS NOW.  
IT E HAD A PART THAT SAID 25%

660  
00:50:10,640 --> 00:50:15,570  
UNEMPLOYMENT AND I NOTICED IT  
WAS FROM PRESIDENT KENNEDY IN

661

00:50:15,570 --> 00:50:18,260

1963.

I NOTICED THAT PRESIDENT JOHNSON

662

00:50:18,260 --> 00:50:20,910

HAD BEEN AT WAR ON POVERTY  
THERE.

663

00:50:20,910 --> 00:50:25,520

IT'S INTERESTING TO SEE HOW  
HOMER HAVING COME OUT OF THAT

664

00:50:25,520 --> 00:50:29,440

AND IS THERE SOMETHING THAT  
EXACTLY WHAT WE'RE TALKING

665

00:50:29,440 --> 00:50:31,171

ABOUT.  
SPAOEURPBED PASSION THAT --

666

00:50:31,171 --> 00:50:35,470

INSPIRED PERSON THAT ANYONE IN  
THAT COUNTY COULD HAVE SO THEY

667

00:50:35,470 --> 00:50:40,510

WOULD TRANSFORM THEIR COUNTY AND  
TO THINK THOSE ACROSS THE WHOLE

668

00:50:40,510 --> 00:50:56,349

NATION BE PART OF INNOVATION  
NATION.

669

00:50:56,349 --> 00:50:58,150

PUSHING US TO GET BROAD BAND  
CONNECTTIVETIES.

670

00:50:58,150 --> 00:51:03,780

PUT IT IN CLASSROOMS.  
WE ARE IN HALF THE CLASSROOMS IN

671

00:51:03,780 --> 00:51:09,400  
HIGH SPEED BROAD BAND.  
THE FCC IS NO OH TKERP BIZING,

672  
00:51:09,400 --> 00:51:12,220  
THERE'S -- MODERNIZING AND  
THERE'S GREAT STUFF GOING ALONG

673  
00:51:12,220 --> 00:51:19,500  
GETTING AMERICANS BACK ON HIGH  
SPEED WITH THE HELP.

674  
00:51:19,500 --> 00:51:22,840  
>> YOU DISCUSSED WOMAN PIONEERS 30  
AND TOUCHED A BIT IN YOUR LAST

675  
00:51:22,840 --> 00:51:26,520  
ANSWER TO THIS QUESTION AS WELL.  
I WOULD LIKE TO HEAR YOU A BIT

676  
00:51:26,520 --> 00:51:31,400  
MORE, WHAT ARE THE NEXT  
FRONTIERS FOR WOMAN INTO NASA

677  
00:51:31,400 --> 00:51:37,710  
AND IN STEM WEAR BROADLY?  
>> OH, REALLY.

678  
00:51:37,710 --> 00:51:40,770  
WITH A HUNDRED SCIENCE ISSUES  
GOING ON.

679  
00:51:40,770 --> 00:51:45,520  
JUPITER IS NEXT.  
OUR FRONTIER IS BOOM, BOOM,

680  
00:51:45,520 --> 00:51:47,410  
BOOM.  
I WANT TO GIVE A SHOUT OUT TO

681

00:51:47,410 --> 00:51:53,200  
ALL THE NASA HERE AND ALL THE  
CIVIL SERVANTS THAT ARE HERE.

682  
00:51:53,200 --> 00:51:58,740  
[ APPLAUSE ]  
>> THESE ARE THE UNSUNG HEROES.

683  
00:51:58,740 --> 00:52:01,820  
EVERY DAY THE LAST QUESTION,  
TOO.

684  
00:52:01,820 --> 00:52:06,099  
SO PARTNERING AND JOINING FORCES  
AND JUST KNOWING HOW HONORABLE

685  
00:52:06,099 --> 00:52:10,880  
IT IS AND THE MOST HUMBLE PEOPLE  
AND WONDERFUL WOMAN AND MEN THAT

686  
00:52:10,880 --> 00:52:14,920  
HAVE BEEN ABLE TO JOIN.  
SO, WE'RE ALL GOING TOGETHER.

687  
00:52:14,920 --> 00:52:16,290  
WE WANT TO TAKE THE WORLD WITH  
US.

688  
00:52:16,290 --> 00:52:21,170  
I MENTIONED JUPITER.  
WE HAVE THE CAMP THAT IS REALLY

689  
00:52:21,170 --> 00:52:27,250  
NICE ARRIVING IN JUPITER.  
OPEN UP THAT CAMP AND SAY,

690  
00:52:27,250 --> 00:52:34,810  
WORLD, WHERE YOU WANT TO POINT  
TO JUPITER?

691

00:52:34,810 --> 00:52:41,540  
BEYOND THAT WE ARE DEVELOPING  
OUR SYSTEM THAT GETS US TO EARTH

692  
00:52:41,540 --> 00:52:43,640  
IN 2020.  
THOSE ARE OUR EXPLORATION

693  
00:52:43,640 --> 00:52:46,640  
MISSIONS AND IN 2030 WE GET TO  
MARS.

694  
00:52:46,640 --> 00:52:53,970  
AND "VOYAGEER" I CAN'T BELIEVE  
HOW FAR IT IS OUT.

695  
00:52:53,970 --> 00:53:03,260  
IT'S AMAZING.  
TWENTY YEARS AGO, THERE'S A

696  
00:53:03,260 --> 00:53:09,119  
WHOLE NEW DISCIPLINE OUT THERE.  
THEY WILL GET IT RIGHT.

697  
00:53:09,119 --> 00:53:16,089  
WE ARE FINDING ALL THESE NEW  
ECHO PLANETS.

698  
00:53:16,089 --> 00:53:21,911  
>> THE  
PRESIDENT HAS US U

699  
00:53:21,911 --> 00:53:23,601  
LOOKING AT ARTIFICIAL  
INTELLIGENCE AND MACHINE 31

700  
00:53:23,601 --> 00:53:26,820  
LEARNING AND CREATING PUBLIC  
ENGAGEMENTS.

701

00:53:26,820 --> 00:53:31,980  
WE JUST POSTED HERE IN D.C.,  
THEY ARE IN PARTNERSHIP WITH ALL

702  
00:53:31,980 --> 00:53:35,940  
KINDS OF DIFFERENT PARTNERS, THE  
UNIVERSITY OF WASHINGTON LOOKED

703  
00:53:35,940 --> 00:53:41,109  
AT AI FOR THE POLICY.  
SO GETTING MORE PEOPLE INVOLVED

704  
00:53:41,109 --> 00:53:45,020  
IN CODING AND DATA SCIENCE WORK  
AS WE ARE DOING TODAY AND

705  
00:53:45,020 --> 00:53:49,000  
LOOKING AT WHAT KIND OF  
SOLUTIONS WE WITH LOOK AND SEE

706  
00:53:49,000 --> 00:53:53,220  
IN THIS DATA.  
THE INCREDIBLE WORK THAT NASA

707  
00:53:53,220 --> 00:53:55,791  
DOES TO ENGAGE EVERYONE.  
THE CITIZEN'S WORK THAT WE WERE

708  
00:53:55,791 --> 00:54:02,369  
JUST MENTIONING ACROSS ALL OF US  
WORKING TOGETHER WHERE THEY WILL

709  
00:54:02,369 --> 00:54:06,420  
SURROUND SENSORS AND GATHERING  
INFORMATION ON OUR OWN PLANET TO

710  
00:54:06,420 --> 00:54:10,520  
KNOW ABOUT WATER QUALITY AND  
WHAT'S GOING ON IN THE OCEANS

711

00:54:10,520 --> 00:54:14,160  
AND ANYWHERE IN THE WORLD AND  
ALSO OUT THERE.

712  
00:54:14,160 --> 00:54:15,720  
>> WE MAY HAVE TIME FOR ONE MORE  
QUESTION.

713  
00:54:15,720 --> 00:54:19,990  
>> IT LOOKS LIKE WE HAVE A HAND  
UP HERE.

714  
00:54:19,990 --> 00:54:25,150  
THANK YOU.  
>> THANK YOU FOR TAKING THE TIME

715  
00:54:25,150 --> 00:54:29,130  
TO BE HERE AND INSPIRING THE  
PEOPLE IF THIS ROOM.

716  
00:54:29,130 --> 00:54:32,210  
FROM A STORY TELLING PERSPECTIVE  
YOU SPEAK ABOUT THE IMPORTANCE

717  
00:54:32,210 --> 00:54:35,510  
OF TELLING PEOPLE ABOUT THINGS  
THAT THEY WOULDN'T OTHERWISE

718  
00:54:35,510 --> 00:54:39,701  
KNOW, IN TERMS OF THE PEOPLE  
SITTING THIS ROOM, WHAT ARE SOME

719  
00:54:39,701 --> 00:54:43,470  
WAYS WE CAN DO THAT AND REALLY  
CELEBRATE THE PEOPLE THAT ARE

720  
00:54:43,470 --> 00:54:45,660  
NOT NECESSARILY SEEN DOING  
AMAZING THINGS.

721

00:54:45,660 --> 00:54:51,000  
>> WE HAD THE FIRST-EVER WHITE  
HOUSE-A-THON.

722  
00:54:51,000 --> 00:54:55,690  
WE HAD THE AFRICAN-AMERICAN STEM  
HEROES.

723  
00:54:55,690 --> 00:55:00,849  
PEOPLE WERE ONLINE.  
THEY WERE DOING THEIR THING AND

724  
00:55:00,849 --> 00:55:05,930  
JUST EXPANDING PEOPLE'S PAGES  
THAT WERE TOO SHORT FOR NO GOOD 32

725  
00:55:05,930 --> 00:55:10,920  
REASON AND MAKING SURE THAT WE  
HAVE ALL THE THE STORIES.

726  
00:55:10,920 --> 00:55:16,660  
WE ALSO DID A FUN THING CALLED  
UNTOLD STORIES IN STEM.

727  
00:55:16,660 --> 00:55:23,589  
YOU FIND A HERO OF YOURS IN ANY  
SECTOR.

728  
00:55:23,589 --> 00:55:26,920  
YOU JUST RECORD WHY YOU ARE  
PASSIONATE ABOUT THIS PERSON AND

729  
00:55:26,920 --> 00:55:29,600  
THEY CAN TELL THEIR STORY AND  
TELL US AND MAKE SURE IT'S

730  
00:55:29,600 --> 00:55:32,400  
THERE.  
A LOT OF THE AUDIO CLIPS END UP

731

00:55:32,400 --> 00:55:35,090  
SO IT'S BEEN REALLY GREAT TO SEE  
THAT.

732  
00:55:35,090 --> 00:55:39,490  
>> WE DO HAVE WOMAN AT NASA AND  
WE WERE TELLING OUR STORIES AND

733  
00:55:39,490 --> 00:55:44,109  
YOU ARE ALL INVITED AND WE WILL  
DO THE MASH UPS.

734  
00:55:44,109 --> 00:55:51,859  
THEY PUT MY FACE ON HER PICTURE.  
IT GETS A LITTLE FREAKY.

735  
00:55:51,859 --> 00:55:57,270  
WE NEED TO MASH IT UP AND BE  
FUN.

736  
00:55:57,270 --> 00:55:59,690  
WE NEED MORE MUSIC.  
WE NEED MORE LAUGHTER AND THAT'S

737  
00:55:59,690 --> 00:56:08,300  
HOW WE WILL BEGIN SO HARD.  
>> AND, JUST GET UP AND DO THAT.

738  
00:56:08,300 --> 00:56:13,520  
AS YOU FIND PEOPLE, SHARE THEM  
AROUND AND TELL US AND GET THEM

739  
00:56:13,520 --> 00:56:17,570  
RECORDED AND IN THE INTERNET SO  
THE PEOPLE CAN FIND THEM.

740  
00:56:17,570 --> 00:56:20,910  
>> I WAS GOING TO SAY, LET'S  
GIVE THEM ANOTHER ROUND OF

741

00:56:20,910 --> 00:56:23,940

APPLAUSE.

>> THANK YOU. .

742

00:56:23,940 --> 00:56:31,930

NOW, WE ARE GOING IN TO OUR  
LIGHTNING TALK SESSION.

743

00:56:31,930 --> 00:56:34,920

YOU'LL HEAR FROM FIVE WOMAN  
ABOUT INITIATIVES AT NASA TO GET

744

00:56:34,920 --> 00:56:39,770

WOMAN AND DATA NEWCOMERS OH USE  
AND INTERACT WITH NASA DATA.

745

00:56:39,770 --> 00:56:43,160

FIRST UP IS BETH BECK.  
SHE IS THE OPEN INVASION PROGRAM

746

00:56:43,160 --> 00:56:46,320

MANAGER FROM THE NASA OFFICE OF  
THE CHIEF INFORMATION OFFICER.

747

00:56:46,320 --> 00:56:49,830

BETH WILL TELL U ABOUT THE  
INTERNATIONAL SPACE CHALLENGE

748

00:56:49,830 --> 00:56:53,460

DATA BOOT CAMP.  
WELCOME BACK.

749

00:56:53,460 --> 00:57:00,190

[ APPLAUSE ]

>> WE ARE SO GLAD TO HAVE YOU 33

750

00:57:00,190 --> 00:57:01,830

HERE.  
HOW MANY PEOPLE WENT THE TO THE

751

00:57:01,830 --> 00:57:05,010  
STATE EVENT YESTERDAY.  
AWESOME.

752  
00:57:05,010 --> 00:57:11,020  
WERE STILL GLOWING.  
IT WAS A GREAT, WONDERFUL,

753  
00:57:11,020 --> 00:57:13,980  
OVERWHELMING DAY.  
WE HAVE SOME UNTOLD STORYS TO

754  
00:57:13,980 --> 00:57:17,260  
TELL YOU.  
I AM THRILLED TO BE HERE FOR THE

755  
00:57:17,260 --> 00:57:22,020  
WOMAN WHO HAVE TAKEN PART FROM  
SOME OF THE THE WOMAN IN DATA

756  
00:57:22,020 --> 00:57:26,150  
INITIATIVES.  
WE HAD THREE STORIES.

757  
00:57:26,150 --> 00:57:29,450  
THE INTERNATIONAL SPACE X  
CHALLENGE, DATA BOOT CAMP AND

758  
00:57:29,450 --> 00:57:31,490  
DATA AND SO THERE ARE THREE  
INITIATIVES.

759  
00:57:31,490 --> 00:57:37,010  
THERE ARE 16-YEAR-OLD GIRLS FROM  
AMMAN, JORDON AND CAME TO THE

760  
00:57:37,010 --> 00:57:43,280  
UNITED STATES LAST SUMMER AND  
HEARD THE STORIES OF THESE THREE

761

00:57:43,280 --> 00:57:45,380

PROGRAMS.

THEY WENT BACK TO JORDAN AND

762

00:57:45,380 --> 00:57:51,450

CREATED THE FIRST-EVER SPACE-X  
CHALLENGE THIS YEAR JUST FROM

763

00:57:51,450 --> 00:57:55,589

HEARING OUR STORY.  
SO, WHAT IS IT?

764

00:57:55,589 --> 00:57:59,839

IT'S A HACK-A-THON.  
IT'S 48 HOURS.

765

00:57:59,839 --> 00:58:08,090

72 HOURS OF HACKING ON DATA BUT  
TO US IT'S OUR OPEN DATA EUPBT

766

00:58:08,090 --> 00:58:14,170

INCUBATOR.  
WE WRAP IT IN THE CONTEXT OF A

767

00:58:14,170 --> 00:58:17,280

CHALLENGE SO YOU CAN INNOVATE IN  
YOUR COMMUNITY.

768

00:58:17,280 --> 00:58:19,330

IT'S OPEN SOURCE.  
YOU CAN KEEP THE SOLUTION BUT WE

769

00:58:19,330 --> 00:58:22,220

CAN KEEP IT TOO.  
THAT'S THE COOL THING ABOUT OPEN

770

00:58:22,220 --> 00:58:24,910

DATA SOURCE.  
WHAT DOES DATA LOOK LIKE?

771

00:58:24,910 --> 00:58:31,400  
IS THIS COMPELLING FOR YOU?  
SOME PEOPLE LOVE THIS AND SOME

772  
00:58:31,400 --> 00:58:36,370  
PEOPLE ARE LIKE ME ARE NOT  
COMPELED TO JUST LOOKING AT

773  
00:58:36,370 --> 00:58:38,950  
DATA.  
SO WHAT WE DO IS WE WRAP IT IN

774  
00:58:38,950 --> 00:58:41,580  
THE CONTEXT OF THE CHALLENGE.  
THIS IS MY CHALLENGE. 34

775  
00:58:41,580 --> 00:58:47,460  
IF THE ROCKET I.T.  
CHALLENGE AND SOME PEOPLE SAY

776  
00:58:47,460 --> 00:58:54,690  
WHY WOULD YOU DO THAT, THAT IS  
DUMBING DOWN THINGS FOR GIRLS.

777  
00:58:54,690 --> 00:58:57,550  
WOMAN AND GIRLS THAT ARE ALREADY  
ENGAGED IN DATA ARE ALREADY

778  
00:58:57,550 --> 00:58:59,070  
HERE.  
LET'S REACH OUT TO THE ONES THAT

779  
00:58:59,070 --> 00:59:03,700  
MAY OR MAY NOT BE INTERESTED  
MANY DA AND THE LET'S SEE IF WE

780  
00:59:03,700 --> 00:59:05,910  
CAN BRING THEM MANY AND SEE THIS  
BRIDGE.

781

00:59:05,910 --> 00:59:10,070  
SO THIS CHALLENGE IS TO GET  
GIRLS TO ENGAGE THEIR DATA.

782  
00:59:10,070 --> 00:59:20,170  
BEFORE I SHOW YOU THIS NEXT  
VIDEO, THE WINNER SO, WE HAD

783  
00:59:20,170 --> 00:59:23,349  
FIVE GLOBAL SOLUTIONS.  
ONE OF THE WINNERS WAS A WINNER

784  
00:59:23,349 --> 00:59:26,320  
BECAUSE OF THIS CHALLENGE SO  
WHEN YOU LOOK AT THIS THE VIDEO,

785  
00:59:26,320 --> 00:59:32,690  
ALEX IN THE MIDDLE IS A DESIGNER  
AND SHE WRAPPED HERSELF WITH TWO

786  
00:59:32,690 --> 00:59:43,550  
CODERS AND THEY TOLD THIS REALLY  
AMAZING STORY AND THEY WON.

787  
00:59:43,550 --> 00:59:50,540  
>> THIS IS IN THE AIR AND OKAY  
OXYGEN LEVELS IN THE THE BLOOD.

788  
00:59:50,540 --> 00:59:55,820  
IT ALSO GIVES RESEARCHES AN  
ACCURATE PICTURE AND THINGS

789  
00:59:55,820 --> 01:00:28,130  
TECHNOLOGY.  
>> WE ADDED THIS

790  
01:00:28,130 --> 01:00:30,030  
SOCIAL  
HUMANITARIAN COMPONENT THAT

791

01:00:30,030 --> 01:00:36,230  
MAKES IT COMPELLING.  
THIS IS WHAT WE SEE WHEN WOMAN

792  
01:00:36,230 --> 01:00:45,970  
ARE PART OF TEAMS.  
THAT EXTRA POINT IS FOR THAT.

793  
01:00:45,970 --> 01:00:49,340  
SO THE SCOPIST -- THIS IS OUR  
FIFTH YEAR.

794  
01:00:49,340 --> 01:00:55,920  
WE HAD 15,000 PAR TASTE --  
PARTICIPANTS.

795  
01:00:55,920 --> 01:01:06,430  
THEY CREATED AROUND NASA DATA.  
THE COOL THING ABOUT IT IS WE

796  
01:01:06,430 --> 01:01:11,140  
CAN BE THE CHALLENGE BUT IT'S  
LOCAL CITIZENS WHO SIGN UP TO

797  
01:01:11,140 --> 01:01:13,630  
HOST THE EVENT.  
THEY ARE REALLY THE BACKBONE.

798  
01:01:13,630 --> 01:01:16,600  
THEY ARE THE ONES IN THEIR  
COMMUNITIES IN 61 COUNTRIES

799  
01:01:16,600 --> 01:01:20,030  
THAT SAY I WILL TAKE MY  
VOLUNTEER EFFORT AND HOST THIS

800  
01:01:20,030 --> 01:01:23,130  
NASA EVENT. 35  
WE DON'T PAY THEM.

801

01:01:23,130 --> 01:01:26,470  
THAT'S THE COOL THING WITH THE  
NASA BRAND.

802  
01:01:26,470 --> 01:01:30,619  
PEOPLE COME TO TO US JUST  
BECAUSE.

803  
01:01:30,619 --> 01:01:36,730  
ONE OF THE THINGS, IS NOT ONLY  
IS IT A HACK-A-THON AND OPEN

804  
01:01:36,730 --> 01:01:44,600  
INCUBATOR, IT'S AL A FOCUS GROUP  
IT TELLS US ABOUT OUR DATA.

805  
01:01:44,600 --> 01:01:55,030  
WHAT TOOLS DO WE NEED AND WHO IS  
USING THE DATA.

806  
01:01:55,030 --> 01:02:02,730  
ONLY 20% ARE WOMAN.  
WE LOOKED AT THAT AND SAID WHY.

807  
01:02:02,730 --> 01:02:06,570  
WHY ARE 80% MEN COMING IN?  
>> THE KEY STUDIES, WOMAN ARE

808  
01:02:06,570 --> 01:02:11,490  
LOOKING FOR THIS WELCOMING  
ENVIRONMENT AND AL LOOKING FOR

809  
01:02:11,490 --> 01:02:15,740  
EARLY ACCESS TO LEARNING NEW  
SKILLS OR ENGAGING IN TEAMING

810  
01:02:15,740 --> 01:02:25,180  
AND BEFORE ALL THE MEN COME IN.  
SO WE HEARD WHAT WE WERE NOT

811

01:02:25,180 --> 01:02:27,881  
DOING IN THE INTERVIEW.  
WE HAVE A ONE-DAY EVENT THAT WE

812  
01:02:27,881 --> 01:02:32,050  
HOST BEFORE.  
WE WILL NOT TEACH PEOPLE TO CODE

813  
01:02:32,050 --> 01:02:35,160  
IN ONE DAY.  
WE INTRODUCED THE CONCEPT AND

814  
01:02:35,160 --> 01:02:42,369  
THE CONCEPT IS WHAT IS CODE,  
WHAT IS DATA, YOU SAW MEGAN PULL

815  
01:02:42,369 --> 01:02:47,440  
OUT OF HER POCKET.  
WE WANT TO DEMYSTIFY.

816  
01:02:47,440 --> 01:02:51,620  
WE WANT TO GIVE SOME HANDS ON  
ABILITY TO TRY SOME THINGS OUT.

817  
01:02:51,620 --> 01:02:56,670  
THAT'S WHAT WE DID FOR THE LAST  
TWO YEARS.

818  
01:02:56,670 --> 01:02:59,620  
HERE'S AN EXAMPLE.  
IF YOU WILL WORK WITH KA DATA,

819  
01:02:59,620 --> 01:03:05,350  
YOU WILL HEAR ABOUT THE API.  
WE DON'T WANT WOMAN TO SAY I

820  
01:03:05,350 --> 01:03:09,880  
DON'T KNOW WHAT THAT MEANS.  
IT'S A WAY TO CALL YOUR DATA.

821

01:03:09,880 --> 01:03:16,050  
IT'S A CODE AND ASKING FOR THE  
ASTRONOMY PICTURE FOR THE DAY.

822  
01:03:16,050 --> 01:03:19,970  
YOU DON'T NEED TO KNOW HOW IT  
WORKS THE FIRST TIME.

823  
01:03:19,970 --> 01:03:22,310  
YOU JUST NEED TO KNOW WHAT IT IS  
SO YOU DON'T FEEL UNCOMFORTABLE

824  
01:03:22,310 --> 01:03:29,490  
AND DON'T WANT TO QUIT.  
THAT'S WHAT THE BOOT CAMP DOES.

825  
01:03:29,490 --> 01:03:33,910  
NOW IT'S A WEEKEND EVENT. 36  
THE DATA BOOT CAMP IS A ONE-DAY

826  
01:03:33,910 --> 01:03:38,810  
EVENT IT AOS A YEARLONG EVENT  
WHERE WE CAN BRING IN CITIZENS

827  
01:03:38,810 --> 01:03:42,800  
TO PRACTICE DATA SIGN SKILLS.  
FOR THE FIRST YEAR IN ORDER TO

828  
01:03:42,800 --> 01:03:44,090  
PROVIDE THIS WELCOMING  
ENVIRONMENT.

829  
01:03:44,090 --> 01:03:48,630  
WE WERE ALL IN AND WE HAD THE  
LEADERS IN THE FIELD AND WE WENT

830  
01:03:48,630 --> 01:03:52,130  
OH TO THEM AND SAID HELP US KNOW  
HOW TO CREATE THESE INITIATIVES

831

01:03:52,130 --> 01:03:57,220  
FOR YOUR COMMUNITY MEMBERS.  
WE KNOW HOW TO DO GOVERNMENT BUT

832  
01:03:57,220 --> 01:03:59,290  
YOU KNOW THOUSAND DO COMMUNITY  
SO -- BUT YOU KNOW HOW TO DO

833  
01:03:59,290 --> 01:04:04,410  
COMMUNITIES.  
THE SECOND CLASS YOU ARE ABOUT

834  
01:04:04,410 --> 01:04:07,510  
TO KICK OFF WILL BE OUR BETA  
TESTERSS.

835  
01:04:07,510 --> 01:04:10,820  
WE ARE TRYING TO FIGURE OUT  
THOUSAND GET MORE WOMAN -- WE

836  
01:04:10,820 --> 01:04:14,300  
ARE TRYING TO FIGURE OUT HOW TO  
GET MORE WOMAN IN DATA.

837  
01:04:14,300 --> 01:04:18,120  
APPLY THIS WEEK.  
GO TO OUR WEB-SITE.

838  
01:04:18,120 --> 01:04:29,780  
IF YOU LOOK AT THE TOP, THERE'S  
AN AN EXPLOYER EVENT.

839  
01:04:29,780 --> 01:04:32,900  
PLEASE SAY YOU WENT TO THE STATE  
OF THE WOMAN EVENT.

840  
01:04:32,900 --> 01:04:38,960  
THIS IS YOUR CHANCE TO COME TAKE  
PART WITH US FOR OUR SECOND

841

01:04:38,960 --> 01:04:42,070

CHANCE.

YOU WILL BE THE BETA TESTER.

842

01:04:42,070 --> 01:04:43,280

PLEASE LOWER YOUR EXPECT --  
EXPECTATIONS.

843

01:04:43,280 --> 01:05:04,260

YOU WILL HEAR MORE AND WILL TELL  
YOU THEIR STORY ALONG THE WAY.

844

01:05:04,260 --> 01:05:05,480

THANK YOU SO MUCH.

[ APPLAUSE ]

845

01:05:05,480 --> 01:05:08,730

>> OUR NEXT PRESENTATION IS FROM  
MICHELLE EASTER.

846

01:05:08,730 --> 01:05:28,730

SHE IS A NASA JPL ENGINEER.  
SHE SPOKE AT THE 2016 SPACE APP

847

01:05:28,730 --> 01:05:34,190

DATA BOOT CAMP IN PASADENA AND  
LED A POPULAR START UP STATION

848

01:05:34,190 --> 01:05:37,500

WHERE SHE TAUGHT BINARY CODE IN  
TEN MINUTES.

849

01:05:37,500 --> 01:05:41,140

WELCOME, MICHELLE.

[ APPLAUSE ]

850

01:05:41,140 --> 01:05:47,120

>> HI, EVERYONE. 37  
I'M MICHELLE EASTER.

851

01:05:47,120 --> 01:05:51,040  
I AM THE ENGINEER BUT WILL LEAD  
UP THE TO THAT STORY.

852  
01:05:51,040 --> 01:05:58,450  
I AM HONORED TO BE HERE AT THE  
NASA HEADQUARTERS.

853  
01:05:58,450 --> 01:06:06,030  
I AM NOT OVER THE SHOCK.  
I WAS ABOUT 13 YEARS AND IT WAS

854  
01:06:06,030 --> 01:06:09,710  
MY FIRST TIME EVER STEPING IN TO  
A NASA CENTER.

855  
01:06:09,710 --> 01:06:15,099  
I WAS AN AWKWARD PRETEEN.  
THAT'S OKAY.

856  
01:06:15,099 --> 01:06:24,720  
THERE'S A LITTLE FORESHADOWING.  
THAT'S ME ON THE RIGHT.

857  
01:06:24,720 --> 01:06:30,349  
I HAVE ALWAYS BEEN TWO PARTS.  
VERY MUCH SO A BIG PART OF MY

858  
01:06:30,349 --> 01:06:32,349  
MOM.  
SHE'S VERY FRIENDLY.

859  
01:06:32,349 --> 01:06:35,339  
SHE'S HERE WITH US.  
HI, MOM.

860  
01:06:35,339 --> 01:06:43,130  
ALWAYS VERY SUPPORTIVE.  
DID YOU MAKE THIS DRESS OR DID

861

01:06:43,130 --> 01:06:45,619  
GRANDMA?  
AT THE SAME TIME I GREW UP ON A

862  
01:06:45,619 --> 01:06:48,359  
FARM AND A TOTAL DADDY'S GIRL  
AND MY DAD WAS AN INDUSTRIAL

863  
01:06:48,359 --> 01:06:53,130  
MECHANIC AND A FARMER.  
I FOLLOWED HIM AND HELP HIM TAKE

864  
01:06:53,130 --> 01:06:57,630  
APART MA SCENERYS AND --  
MACHINERY AND BUILD THINGS.

865  
01:06:57,630 --> 01:07:03,610  
AS I GOT OLDER, I DIDN'T  
UNDERSTAND THAT YOU CAN HAVE

866  
01:07:03,610 --> 01:07:06,911  
BOTH PARTS OF THE PERSONALITY  
AND EXIST.

867  
01:07:06,911 --> 01:07:12,130  
SO I CHOSE ONE AND I ENDED UP  
WORKING IN A CAREER IN FASHION.

868  
01:07:12,130 --> 01:07:14,540  
SO, AFTER I KPWRAPBLG WAITED  
HIGH SCHOOL -- AFTER I GRADUATED

869  
01:07:14,540 --> 01:07:17,260  
I GOT A CONTRACT TO GO TO SOUTH  
KOREA TO MODEL.

870  
01:07:17,260 --> 01:07:21,040  
DIDN'T THINK THAT WAS A  
POSSIBILITY.

871

01:07:21,040 --> 01:07:27,270

I DID IT.

I WORKED AS A MODEL IT WAS

872

01:07:27,270 --> 01:07:30,070

INCREDIBLE IT WAS FUN.

I GOT TO TRAVEL AND MEET

873

01:07:30,070 --> 01:07:35,980

CREATIVE PEOPLE AND I GOT TO

MAKE BEAUTIFUL ART.

874

01:07:35,980 --> 01:07:38,380

THE TOP LEFT IS ME IN DUBAI

DOING THE RUNWAY.

875

01:07:38,380 --> 01:07:40,570

THE BOTTOM RIGHT THAT WAS IN 38

MILAN.

876

01:07:40,570 --> 01:07:43,349

THESE ARE EXPERIENCES THAT ARE

VALUABLE.

877

01:07:43,349 --> 01:07:50,420

AS I GOT OLDER, I STARTED TO

REALIZE THAT I WAS MISSING THIS

878

01:07:50,420 --> 01:07:55,250

OTHER PART OF ME THAT WAS

EQUALLY AS IMPORTANT TO ME AS MY

879

01:07:55,250 --> 01:07:59,190

FEMININITY SO I DECIDED TO TRY

ENGINEERING SCHOOL.

880

01:07:59,190 --> 01:08:01,930

THIS IS THE BEST GRAPHIC THAT I

CAN COME UP WITH TO DESCRIBE

881

01:08:01,930 --> 01:08:05,230  
WHAT IT E WAS LIKE TO GO TO  
ENGINEERING.

882  
01:08:05,230 --> 01:08:10,930  
I STARTED AT 26 YEARS OLD AND I  
PROMISE YOU THERE'S NOT ANYTHING

883  
01:08:10,930 --> 01:08:14,099  
ABOUT WORKING AS A FASHION MODEL  
THAT GIVES YOU AN ACADEMICALLY

884  
01:08:14,099 --> 01:08:16,440  
COMPETITIVE ADVANTAGE WHEN YOU  
ARE TRYING TO GO IN TO

885  
01:08:16,440 --> 01:08:18,380  
ENGINEERING SCHOOL.  
IT WAS EBG TRAOEPLLY

886  
01:08:18,380 --> 01:08:21,300  
CHALLENGE -- IT WAS EXTREMELY  
CHALLENGING FOR ME BUT THE MOST

887  
01:08:21,300 --> 01:08:28,130  
REWARDING THING.  
WHEN I FINALLY GRADUATED FROM

888  
01:08:28,130 --> 01:08:36,480  
COLLEGE WITH MY DEGREE AND A  
4.0GPA AT THE AGE OF 39 YEARS

889  
01:08:36,480 --> 01:08:40,039  
OLD.  
[ APPLAUSE ]

890  
01:08:40,039 --> 01:08:45,750  
>> THANK YOU.  
I NEVER THOUGHT THAT WAS GOING

891

01:08:45,750 --> 01:08:48,529  
TO HAPPEN.  
MY PARENTS PROBABLY THOUGHT THEY

892  
01:08:48,529 --> 01:08:53,100  
NEVER THOUGHT IT WOULD HAPPEN  
EITHER.

893  
01:08:53,100 --> 01:08:59,230  
FAST FORWARD, MY DEGREE GOT ME  
MORE THAN THE ATTENTION OF

894  
01:08:59,230 --> 01:09:03,900  
GETTING A DEGREE -- MY RESUME, I  
FOCUSED SO HARD THAT IT

895  
01:09:03,900 --> 01:09:06,040  
ATTRACTED THE ATTENTION OF THE  
NASA LABORATORIES.

896  
01:09:06,040 --> 01:09:10,400  
HERE IS ME WHEN I WAS  
INTERVIEWING.

897  
01:09:10,400 --> 01:09:17,150  
I HAD THAT FACE ALL THE TIME AT  
WORK.

898  
01:09:17,150 --> 01:09:20,679  
IT IS UNBELIEVABLE.  
I'M STILL IN SHOCK.

899  
01:09:20,679 --> 01:09:24,469  
IT'S CRAZY.  
I WAS SO INSPIRED BY MY OWN

900  
01:09:24,469 --> 01:09:27,569  
EXPERIENCE. 39  
I WAS SO BLOWN AWAY AT THE

901

01:09:27,569 --> 01:09:31,660  
IMPACT THAT GETTING MY EDUCATION  
HAD ON MY LIFE AND THE FUTURE

902  
01:09:31,660 --> 01:09:34,720  
THAT IT GAVE ME THAT I NEVER  
THOUGHT I COULD HAVE.

903  
01:09:34,720 --> 01:09:36,759  
PEOPLE ASK ME, "OH, YOU WORK FOR  
NASA.

904  
01:09:36,759 --> 01:09:41,480  
IS THAT A DREAM COME TRUE?"  
THE ANSWER IS, "NO."

905  
01:09:41,480 --> 01:09:45,650  
I NEVER THOUGHT IT WAS POSSIBLE.  
THAT WAS OUT OF MY SCOPE.

906  
01:09:45,650 --> 01:09:49,219  
IT IS MORE THAN A DREAM COME  
TRUE.

907  
01:09:49,219 --> 01:09:54,890  
I WAS PROMPTED TO START A  
NON-PROFIT TO ENCOURAGE THE

908  
01:09:54,890 --> 01:09:58,050  
OTHER PEOPLE TO MAKE THE SAME  
DISCOVERY OF THEMSELVES.

909  
01:09:58,050 --> 01:10:04,480  
WIND MAKERS WAS LAST YEAR WHICH  
IS A NON-PROFIT INITIATIVE.

910  
01:10:04,480 --> 01:10:09,730  
OUR GOAL IS TO MAKE ENGINEERING  
APPROACHABLE AS FOR OTHER PEOPLE

911

01:10:09,730 --> 01:10:12,940  
THAT ARE FROM UNCONVENTIONAL  
BACKGROUNDS THAT DO NOT SERVE IN

912  
01:10:12,940 --> 01:10:17,340  
THE STEM FIELD.  
WE ARE DOING IT TO WORK AS A

913  
01:10:17,340 --> 01:10:24,520  
TEAM OF ENGINEERING TO DEVELOP A  
CURRICULUM WHERE STUDENTS CAN

914  
01:10:24,520 --> 01:10:30,380  
SHOW UP AND RECEIVE MENTORSHIP  
AND WORK TOGETHER TO BUILD

915  
01:10:30,380 --> 01:10:35,360  
HARDWARE THAT PLUG IN TO A  
LARGER SCALE IN ENGINEERING

916  
01:10:35,360 --> 01:10:39,250  
EXHIBIT TO ENGAGE THE PUBLIC IN  
ENGINEERING BUT ALSO TO SHOW

917  
01:10:39,250 --> 01:10:41,940  
THEM WHO IS CAPABLE OF  
CONTRIBUTING TO THIS

918  
01:10:41,940 --> 01:10:45,190  
ENGINEERING.  
[ APPLAUSE ]

919  
01:10:45,190 --> 01:10:52,400  
>> FUR -- AFTER THE COMPLETION  
OF THE PROGRAM, WE WANT TO

920  
01:10:52,400 --> 01:10:56,760  
ENCOURAGE OUR ALUMNI TO TURN  
AROUND AND PAY THAT BACK TO THE

921

01:10:56,760 --> 01:10:58,650  
COMMUNITY.  
WE ARE ENCOURAGING THEM TO HOST

922  
01:10:58,650 --> 01:11:02,410  
WORKSHOPS WITH KIDS.  
THAT HELPS TO REAFFIRM THEIR

923  
01:11:02,410 --> 01:11:04,170  
KNOWN KNOWLEDGE.

924  
01:11:04,170 --> 01:11:17,610  
THAT ALSO SERVES TO HELP THEM  
DIRECTLY IN THEIR CLASSROOMS.

925  
01:11:17,610 --> 01:11:20,690  
>> THIS WAS LAST DECEMBER. 40  
-P THIS WAS FROM OUR TEAM.

926  
01:11:20,690 --> 01:11:23,969  
TO START THIS PROPAGATING  
EDUCATIONAL INITIATIVE, WE

927  
01:11:23,969 --> 01:11:27,199  
STARTED WITH OUR OWN TEAM.  
A LOT OF OUR OWN TEAM ARE

928  
01:11:27,199 --> 01:11:32,239  
ARTISTS AND NOT ENGINEERS BUT  
THEY CONTRIBUTE LOTS OF VALUE TO

929  
01:11:32,239 --> 01:11:35,719  
THE ORGANIZATION.  
WE TAUGHT THEM FIRST AND TAUGHT

930  
01:11:35,719 --> 01:11:39,250  
THEM HOW TO LAYOUT A CIRCUIT AND  
WE ALL MADE REMOTE CONTROL

931

01:11:39,250 --> 01:11:48,790  
L.E.D.AND BOW TIES.  
EVERYONE WAS CALLING ME.

932  
01:11:48,790 --> 01:11:52,810  
IT WAS REALLY EMPOWERING FOR  
THEM.

933  
01:11:52,810 --> 01:11:56,140  
THE NEXT STEP ARE FOR THESE  
PEOPLE WHO JEW LEARNED NEW

934  
01:11:56,140 --> 01:12:00,870  
SKILLS.  
WE ALL HELD A WORKSHOP AND TOOK

935  
01:12:00,870 --> 01:12:04,890  
A GIRL SCOUT TROOP AND TAUGHT  
THEM HOW TO MAKE THE SAME

936  
01:12:04,890 --> 01:12:09,670  
MATCHING BOW TIES THAT WE HAD.  
THIS SAUL WORKING TOGETHER.

937  
01:12:09,670 --> 01:12:13,340  
IT WAS IT WAS AWESOME.  
WE SPENT THE WHOLE DAY WITH

938  
01:12:13,340 --> 01:12:19,090  
THESE GIRLS, TALKING WITH THEM  
ABOUT OUR JOBS AND HELPING THEM

939  
01:12:19,090 --> 01:12:22,900  
GET THROUGH THIS ACTIVITY IT WAS  
REALLY INCREDIBLE.

940  
01:12:22,900 --> 01:12:35,650  
THIS IS US IN THE FINISH.  
AND TO THE WOMAN AND DA TA BOOT

941

01:12:35,650 --> 01:12:38,400

CAMP.

THEY ASKED US TO HOST A START UP

942

01:12:38,400 --> 01:12:40,830

STATION.

WHEN I SAW THE MOTION, I I

943

01:12:40,830 --> 01:12:46,130

THOUGHT IT IS OUR MISSION.

WE WANT TO ENGAGE PEOPLE AND

944

01:12:46,130 --> 01:12:50,900

MAKE THEM FEEL CONFIDENT, I CAN

GO IN THIS ARENA AND GIVE IT A

945

01:12:50,900 --> 01:12:53,300

TRY AND IT'S SOMETHING THAT I

CAN LEARN.

946

01:12:53,300 --> 01:12:56,710

WE SET UP AN EBG SIZE AND CALLED

IT A -- WE SET UP AN EXERCISE.

947

01:12:56,710 --> 01:13:03,530

WE NEED MORE HARDWARE.

SO FOR OUR START UP STATION, WE

948

01:13:03,530 --> 01:13:09,190

HAD A TEN-MINUTE LESSON IN

BIANARY.

949

01:13:09,190 --> 01:13:14,699

IT'S SUPER SIMPLE A TEN MINUTE

LESSON IN BIANARY.

950

01:13:14,699 --> 01:13:18,989

YOU CAN SIGN UP TO LEARN HOW TO 41

SAWDER.

951

01:13:18,989 --> 01:13:26,110  
THEY ARE LITTLE CIRCUITS WHERE  
EACH ROW HAS 8 LEDs.

952  
01:13:26,110 --> 01:13:30,290  
YOU CAN ENCODE ONE LETTER IN ONE  
BYTE.

953  
01:13:30,290 --> 01:13:32,650  
IF ANYBODY WANTED TO COME BACK  
WE WILL TEACH THEM HOW TO

954  
01:13:32,650 --> 01:13:37,850  
CONVERT THEIR INITIALS IN  
BIANARY.

955  
01:13:37,850 --> 01:13:41,640  
POP THE BACK OFF AND DROP IT AND  
SAUNDER THEM IN TO HAVE EACH LED

956  
01:13:41,640 --> 01:13:47,640  
IN THE CIRCUIT.  
I GUESS I U WAS SHOCKED BUT

957  
01:13:47,640 --> 01:13:49,980  
MAYBE WE SHOULDN'T BE SHOCKED.  
EVERYBODY CAME.

958  
01:13:49,980 --> 01:13:52,489  
I THOUGHT SOME PEOPLE WOULD BE  
NERVOUS.

959  
01:13:52,489 --> 01:13:58,600  
EVERYBODY WANTED TO COME.  
IT WAS INCREDIBLE.

960  
01:13:58,600 --> 01:14:17,260  
>> THIS CUTE LITTLE VIDEO.

¶

961

01:14:17,260 --> 01:14:21,699  
>> IT'S SHORT.  
THAT'S WHAT IT LOOKED LIKE.

962  
01:14:21,699 --> 01:14:24,840  
EVERYBODY COME IN ONE ROOM AND  
WE WILL WORK IT OUT.

963  
01:14:24,840 --> 01:14:27,580  
AND THE GIRL SCOUT WERE THE  
WORKSHOP.

964  
01:14:27,580 --> 01:14:34,990  
THEY TW-R -- THEY WERE THE  
LEADER. CHECK THIS OUT.

965  
01:14:34,990 --> 01:14:37,430  
THIS IS ORANGE AND GLITTER NAIL  
POLISH.

966  
01:14:37,430 --> 01:14:42,840  
THIS IS A HIGH SCHOOL TEACHING  
CAMERON DIAZ HOW TO SAUDER.

967  
01:14:42,840 --> 01:14:52,390  
THEY WILL NEVER FORGET THAT THEY  
GOT TO DO THAT IT'S SUCH AN

968  
01:14:52,390 --> 01:14:58,520  
AWESOME EXPERIENCE.  
WE GOT TO TAKE OUR MODEL AND USE

969  
01:14:58,520 --> 01:15:03,750  
THE NASA WOMAN IN DATA BOOT CAMP  
AS A PLATFORM TO EXERCISE OUR

970  
01:15:03,750 --> 01:15:05,980  
MODEL.  
WHAT IT ALLOWED US TO DO IS TO

971

01:15:05,980 --> 01:15:12,090  
REACH WOMAN, GIRLS AND ALL AGES,  
ALL DEMOGRAPHICS AND PROVIDE AN

972

01:15:12,090 --> 01:15:15,840  
OPPORTUNITY FOR PEOPLE TO BE  
LEARNERS AND LEADERS NO MATTER

973

01:15:15,840 --> 01:15:19,630  
WHAT THEIR AGE ARE.  
IT'S WHAT YOU HAVE TO KNOW AT

974

01:15:19,630 --> 01:15:28,080  
THE MOMENT AND SHARING IT.  
THESE ARE THE ALL STAR GIRLS.

975

01:15:28,080 --> 01:15:30,820  
BY WORKING TOGETHER, WE CAN ALL 42  
MAKE UP A BRIGHTER FUTURE.

976

01:15:30,820 --> 01:15:35,290  
IT'S ABOUT WORKING TOGETHER AND  
KEEPING AN OPEN MIND.

977

01:15:35,290 --> 01:15:40,070  
[ APPLAUSE ]  
>> THANK YOU.

978

01:15:40,070 --> 01:15:47,110  
MICHELLE.  
NOW, I WOULD LIKE TO INTRODUCE

979

01:15:47,110 --> 01:15:49,840  
TINA LAI.  
SHE ALSO LIVES IN PASADENA.

980

01:15:49,840 --> 01:16:04,300  
SHE PARTICIPATED IN A BOOT CAMP.  
THIS IS A FIRST TIME IN A DATA

981

01:16:04,300 --> 01:16:10,409  
HACK-A-THON.  
LET'S FIND OUT HOW THAT WORKS.

982  
01:16:10,409 --> 01:16:18,750  
>> HELLO, EVERYONE.  
I WANT TO THANK BETH.

983  
01:16:18,750 --> 01:16:32,450  
I NEVER THOUGHT THE FIRST TIME I  
WENT THAT I WOULD BE INVITED TO

984  
01:16:32,450 --> 01:16:39,810  
D.C.AND COME.  
I'M GIDDY NOW SO THANK YOU.

985  
01:16:39,810 --> 01:16:44,850  
THIS IS WHAT I DID BEFORE I  
STARTED PROGRAMMING.

986  
01:16:44,850 --> 01:16:51,530  
I GOT A DEGREE IN COLLEGE WHICH  
IS THE PICTURE ON THE LEFT.

987  
01:16:51,530 --> 01:16:54,420  
THAT'S ME PRINTING IN MY FRIEND'  
GARAGE.

988  
01:16:54,420 --> 01:17:01,160  
YOU CAN SEE THE PRINTS UP THERE.  
THAT'S WHERE I STARTED.

989  
01:17:01,160 --> 01:17:07,311  
WHEN I WAS GROWING UP, I REALLY  
LOVED DRAWING BUT BEFORE THAT, I

990  
01:17:07,311 --> 01:17:12,200  
REMEMBER WHEN YOU HAVE TO RIGHT  
THE ESSAY WHEN YOU'RE YOUNGER,

991

01:17:12,200 --> 01:17:14,600  
"WHAT YOU WANT TO BE WHEN YOU  
GROW UP?"

992  
01:17:14,600 --> 01:17:22,210  
I WANTED TO BE AN INVENTOR.  
I CAN MAKE ANYTHING UP ON A

993  
01:17:22,210 --> 01:17:27,180  
PIECE OF PAPER.  
THAT IS THE DIRECTION THAT I

994  
01:17:27,180 --> 01:17:32,949  
WENT AND I CHOSE PRINT MAKING.  
YOU CAN PRODUCE YOUR ART AND NOT

995  
01:17:32,949 --> 01:17:37,610  
JEW MAKE ONE YOU -- NOT JUST  
MAKE ONE YOU CAN MAKE SO MANY

996  
01:17:37,610 --> 01:17:42,130  
COPIES.  
YOU CAN CHANGE IT FOR OTHER

997  
01:17:42,130 --> 01:17:45,750  
PEOPLE.  
AFTER SCHOOL I EXPLORED

998  
01:17:45,750 --> 01:17:50,650  
DIFFERENT INTEREST, I LOVE  
ANIMALS SO I GOT CERTIFIED TO

999  
01:17:50,650 --> 01:17:53,480  
BECOME A ANIMAL MASSAGE  
THERAPIST.

1000  
01:17:53,480 --> 01:17:59,730  
THAT WAS ME. 43  
IT WAS FUN AND I LOVED LEARNING

1001

01:17:59,730 --> 01:18:11,270  
ABOUT ANIMALS AND THEIR  
DIFFERENT LANGUAGE AND HOW TO

1002  
01:18:11,270 --> 01:18:15,370  
COMMUNICATE.  
AFTER DOING THAT FOR A COUPLE

1003  
01:18:15,370 --> 01:18:20,710  
YEARS, IT WAS REALLY REWARDING  
IN THE SENSE THAT I'M PROVIDING

1004  
01:18:20,710 --> 01:18:25,890  
RELIEF TO THE ANIMALS BUT FOR  
MYSELF I FELT UNCHALLENGED

1005  
01:18:25,890 --> 01:18:33,860  
MENTALLY.  
THE PIVOT CAME IN 2014 BEFORE

1006  
01:18:33,860 --> 01:18:44,770  
CHRISTMAS MY MOM DIED BECAUSE  
AFTER HER SECOND CHEMO, SHE WAS

1007  
01:18:44,770 --> 01:18:49,980  
IMMUNE SYSTEM -- ANY INFECTION  
AND SHE PASSED AWAY AND THAT

1008  
01:18:49,980 --> 01:18:54,360  
WITH US THE BIG THING IN MY LIFE  
THAT LED ME QUESTIONING, WHAT AM

1009  
01:18:54,360 --> 01:18:58,940  
I EVEN DOING?  
IS ANYTHING WORTH IT.

1010  
01:18:58,940 --> 01:19:04,739  
THROUGH A FRIEND WHO GAVE ME AN  
IDEA.

1011

01:19:04,739 --> 01:19:10,750  
WHY DON'T YOU TRY PROGRAMMING?  
I NEEDED A CAREER AND FIGURE OUT

1012  
01:19:10,750 --> 01:19:16,730  
WHAT TO DO WITH MY LIFE.  
AFTER MY FRIEND GAVE ME THIS

1013  
01:19:16,730 --> 01:19:21,780  
IDEA, PROGRAMMING, WHAT IS IT.  
I WENT ONLINE AND DID SOME

1014  
01:19:21,780 --> 01:19:26,699  
CODING SCHOOL ONLINE WHICH IS  
FREE, BY THE WAY IF YOU WANTED

1015  
01:19:26,699 --> 01:19:31,410  
TO CHECK IT OUT.  
I REALIZED THAT THIS IS -- I

1016  
01:19:31,410 --> 01:19:36,000  
REALLY MISSED THE PROBLEM  
SOLVING AND DIGGING INTO

1017  
01:19:36,000 --> 01:19:41,150  
SOMETHING AND SITTING MANY FRONT  
OF THE COMPUTER AND THINKING

1018  
01:19:41,150 --> 01:19:44,340  
ABOUT SOMETHING SO LONG AND  
TRYING TO SOLVE ONE PROBLEM AND

1019  
01:19:44,340 --> 01:19:52,150  
YOU REALIZE YOU MISSPELLED  
SOMETHING.

1020  
01:19:52,150 --> 01:19:58,960  
I CAN'T DO ANYTHING -- I'M SO  
DUMB TO I'M A GENIUS I FIXED

1021

01:19:58,960 --> 01:20:07,850

THIS PROBLEM.

I THOUGHT PROGRAMMING WAS

1022

01:20:07,850 --> 01:20:10,330

CHALLENGING BECAUSE EVEN THOUGH

I LOVE MATH BEFORE I NEVER

1023

01:20:10,330 --> 01:20:16,180

WANTED TO ONLY DO MATH THROUGH

OUT THE REST OF MY LIFE, BUT

1024

01:20:16,180 --> 01:20:20,600

WHAT INSPIRED ME AND WHAT I

DIDN'T REALIZE THAT IS I WENT ON

1025

01:20:20,600 --> 01:20:25,390

DOING PROGRAMMING IS THAT I WAS 44

ABLE TO CONNECT WITH MY MOM AND

1026

01:20:25,390 --> 01:20:29,230

HAVE THE NEW RELATIONSHIP WITH

HER BECAUSE THIS IS HER ON THE

1027

01:20:29,230 --> 01:20:34,510

RIGHT -P AND IN THIS IS BACK IN

THE '80s AND SHE WAS A

1028

01:20:34,510 --> 01:20:39,270

PROGRAMMER BACK IN THE DAY AND

SHE WORKED FOR AT&T DEVELOPING

1029

01:20:39,270 --> 01:20:43,280

THE -- WHICH EVERY UP WITH USES

THE NOW.

1030

01:20:43,280 --> 01:20:49,110

THE PROGRAM FOR TRANSFERRING

CELL SIGNALS FROM TOWER TO

1031

01:20:49,110 --> 01:20:59,719

TOWER.

THIS IS PRETTY AMAZING THAT I

1032

01:20:59,719 --> 01:21:04,130

WENT ALL AROUND AND NOT WANTING  
TO DO WHAT MY MOM DID AND ENDED

1033

01:21:04,130 --> 01:21:11,730

UP DOING WHAT MY MOM DID.  
I WANT TO SAY, EVEN THOUGH MY

1034

01:21:11,730 --> 01:21:18,600

MOM DIDN'T PUSH ME TO, YOU HAVE  
TO FOLLOW ME, SHE DID TEACH ME A

1035

01:21:18,600 --> 01:21:23,190

VALUABLE LESSON.  
TY HAVE TWO BROTHERS.

1036

01:21:23,190 --> 01:21:25,989

-- I HAVE TWO BROTHERS.  
I WASN'T NEVER TREATED

1037

01:21:25,989 --> 01:21:32,100

DIFFERENTLY.  
YOU HAVE TO BE LOGICAL.

1038

01:21:32,100 --> 01:21:38,240

THERE' MATH IN EVERYTHING WE  
USED TO HATE THAT.

1039

01:21:38,240 --> 01:21:43,550

OH, MOM, AGAIN?  
THERE'S MATH IN EVERYTHING.

1040

01:21:43,550 --> 01:21:47,060

SHE SHOWED ME THROUGH HER OWN  
EXAMPLE THAT IT DOESN'T MATTER

1041

01:21:47,060 --> 01:21:52,699  
WHO YOU ARE OR IF YOU'RE A GIRL  
OR BOY YOU CAN DO WHATEVER YOU

1042  
01:21:52,699 --> 01:22:00,210  
WANT TO DO.  
SO FAST FORWARD, I WENT AFTER

1043  
01:22:00,210 --> 01:22:02,300  
LEARNING PROGRAMMING ON MY OWN I  
ACTUALLY WENT TO AN

1044  
01:22:02,300 --> 01:22:06,380  
EXCELLERATEED PROGRAM AND THIS  
IS THE FIRST HACK-A-THON WITH

1045  
01:22:06,380 --> 01:22:09,690  
THE SPACE-X CHALLENGE.  
IT WAS EXCITING.

1046  
01:22:09,690 --> 01:22:16,860  
I WAS NEAR VOW AND I LOOK -- I  
WAS NERVOUS AND I WENT UP AND

1047  
01:22:16,860 --> 01:22:20,850  
THOUGHT CAN I DO IT.  
I THOUGHT THERE'S A BOOT CAMP

1048  
01:22:20,850 --> 01:22:26,790  
THE DAY BEFORE AND SO, I WENT TO  
THAT BUT I WANTED TO INTRODUCE

1049  
01:22:26,790 --> 01:22:31,160  
MY TEAMMATE.  
THIS IS MY GIRLFRIEND EMILY IN

1050  
01:22:31,160 --> 01:22:34,600  
THE MIDDLE. 45  
WERE BOTH WENT TO THE SAME

1051

01:22:34,600 --> 01:22:36,730  
EXCELLERATEED PROGRAM.  
WE ARE VERY NEW.

1052  
01:22:36,730 --> 01:22:40,350  
WE CHANGED OUR CAREERS.  
WE ALL STUDIED DIFFERENT THINGS

1053  
01:22:40,350 --> 01:22:48,410  
BEFORE AND WENT TO THE CHALLENGE  
AND EMILY IS ACTUALLY A

1054  
01:22:48,410 --> 01:22:55,800  
BACKGROUND PAINTER AND ANIMATION  
SO SHE HAS NO IDEA ABOUT CODING.

1055  
01:22:55,800 --> 01:23:06,010  
THIS IS THE ICON IN OUR APP.  
IT DOESN'T MATTER YOUR

1056  
01:23:06,010 --> 01:23:13,320  
BACKGROUND.  
IF YOU KNOW HOW TO TELL STORIES

1057  
01:23:13,320 --> 01:23:19,170  
AND HOW TO DESIGN.  
HER DESIGNS IS THE ONE THAT

1058  
01:23:19,170 --> 01:23:23,219  
ARACKETED THE JUDGE'S --  
ATTRACTED THE JUDGES A BIT MORE.

1059  
01:23:23,219 --> 01:23:28,320  
SHE DESIGNED THEM HERSELF SO  
THAT IT'S EASY FOR ANYONE, EVEN

1060  
01:23:28,320 --> 01:23:33,900  
IF YOU DON'T SPEAK ENGLISH TO BE  
ABLE TO RECOGNIZE WHAT IT MEANS.

1061

01:23:33,900 --> 01:23:38,710  
ALSO THE OTHER CONSIDERATION IS  
FOR COLOR BLIND PEOPLE THAT EVEN

1062  
01:23:38,710 --> 01:23:42,600  
IF IT AO BLACK AND WHITE IT AO  
VERY EASY TO READ.

1063  
01:23:42,600 --> 01:23:46,969  
THAT'S SOMETHING THAT WE  
WOULDN'T NEVER THOUGHT OF AND

1064  
01:23:46,969 --> 01:23:50,360  
THAT' SOMETHING THAT I THINK  
PEOPLE WITH BACKGROUNDS CAN

1065  
01:23:50,360 --> 01:23:58,050  
BRING TO THE SPACE-X CHALLENGE.  
YOU HAVE SOMETHING TO

1066  
01:23:58,050 --> 01:24:06,870  
CONTRIBUTE.  
>> THIS IS FROM THE BOOT CAMP

1067  
01:24:06,870 --> 01:24:11,640  
AND ONE OF THE REASONS I WENT IS  
BECAUSE WHEN I U WAS RESEARCHING

1068  
01:24:11,640 --> 01:24:21,830  
THE DATA KNOTS, I LEARNED THAT  
IT HAD A LOT OF INTERACTIVE

1069  
01:24:21,830 --> 01:24:30,190  
ELECTRONIC PAPER.  
SO, IT'S PAPER, SHE PRINTED ON

1070  
01:24:30,190 --> 01:24:33,410  
IT.  
YOU CAN BE -- SHE HAS A DJ DECK

1071

01:24:33,410 --> 01:24:36,690  
YOUR CAN MIX MUSIC AND THERE'S  
DIFFERENT THINGS.

1072  
01:24:36,690 --> 01:24:39,560  
THAT, TO ME WAS LIKE OH MY GOD  
YOU ARE MY HERO.

1073  
01:24:39,560 --> 01:24:42,570  
THAT'S WHEY WANTED TO -- THAT'  
WHAT I E WANTED TO DO WITH MY

1074  
01:24:42,570 --> 01:24:43,820  
ART.  
SO, GOING BACK A LITTLE BIT AND

1075  
01:24:43,820 --> 01:24:48,830  
IN COLLEGE I TOOK AN ELECTRONIC 46  
SCULPTURE CLASS.

1076  
01:24:48,830 --> 01:24:55,980  
THAT IS THE SEED ALSO OF ME  
TRANSITIONING INTO PROGRAMMING

1077  
01:24:55,980 --> 01:25:01,860  
BECAUSE I WORKED WITH THEM AND  
LEARNED TO SAWDER AND WHAT A

1078  
01:25:01,860 --> 01:25:05,400  
CIRCUIT IS AND TAKE THINGS  
APART.

1079  
01:25:05,400 --> 01:25:08,940  
THAT'S ALWAYS BEEN WHAT I WAS  
INTERESTED IN AND I ALWAYS LIKED

1080  
01:25:08,940 --> 01:25:12,050  
TAKING DISH USED TO TAKE MY  
ALARM PART.

1081

01:25:12,050 --> 01:25:17,880  
I FIXED MY OLD CELL PHONE.  
I DON'T WANT TO PAY ANYONE TO DO

1082  
01:25:17,880 --> 01:25:24,640  
THIS SO I LOOKED IT UP ON YOU  
TUBE AND YOU TUBE HAS

1083  
01:25:24,640 --> 01:25:28,700  
EVERYTHING.  
SO, WHATEVER YOUR INTERESTS IS,

1084  
01:25:28,700 --> 01:25:33,469  
YOU CAN BRIDGE IT WITH  
TECHNOLOGY.

1085  
01:25:33,469 --> 01:25:37,030  
HERE'S MICHELLE SHOP.  
IT IS INSANELY POPULAR.

1086  
01:25:37,030 --> 01:25:43,070  
I HAPPEN TO BE IN THE DESK  
OUTSIDE BUT IT WAS AMAZING.

1087  
01:25:43,070 --> 01:25:47,800  
THOSE GIRLS ARE REALLY COOL AND  
THEY ARE SO EXCITED TO BE PART

1088  
01:25:47,800 --> 01:25:54,050  
OF IT.  
THIS IS ME ON THE DESK.

1089  
01:25:54,050 --> 01:25:59,440  
I WEPT TO A FULL CIRCLE BUT I'M  
STILL THE PERSON AND I WANT TO

1090  
01:25:59,440 --> 01:26:04,620  
BE HANDS ON AND MAKING THINGS.  
I THINK THAT EVERYBODY CAN LEARN

1091

01:26:04,620 --> 01:26:08,500

THAT, TOO.  
THANK YOU.

1092

01:26:08,500 --> 01:26:15,190

[ APPLAUSE ]  
>> THANK YOU.

1093

01:26:15,190 --> 01:26:19,580

NEXT UP IS JERELYN RODRIGUEZ.  
SHE LIVES IN NEW YORK WHERE SHE

1094

01:26:19,580 --> 01:26:22,790

IS CO-FOUNDER AND CEO OF THE  
KNOWLEDGE HOUSE.

1095

01:26:22,790 --> 01:26:26,870

A NON-PROFIT THAT ENGAGES YOUTHS  
IN THE SOUTH BRONX.

1096

01:26:26,870 --> 01:26:34,780

SHE PAR TASTETIST PATEED -- SHE  
PA\*R TEUS PATEED -- SHE PARTIES

1097

01:26:34,780 --> 01:26:39,480

TATE BATHEED.  
>> THANK YOU.

1098

01:26:39,480 --> 01:26:40,650

>>  
[ APPLAUSE ]

1099

01:26:40,650 --> 01:26:44,430

.  
>> THANK YOU SO MUCH. SO MY

1100

01:26:44,430 --> 01:26:49,949

STORY STARTS WITH KIT. 47  
IT IS A NATIONAL NETWORK OF

1101

01:26:49,949 --> 01:26:55,860  
TOPPER FORMING CHATTER SCHOOLS.  
I AM A GUINEA PIG.

1102  
01:26:55,860 --> 01:27:04,050  
THE  
SOUTH BRONX IS ONE OF THE

1103  
01:27:04,050 --> 01:27:06,989  
POOREST CONGRESSIONAL DISTRICTS  
IN THE COUNTRY SO IT WAS

1104  
01:27:06,989 --> 01:27:11,150  
IMPORTANT FOR MY MOM WHO AT THE  
TIME WAS A PUBLIC SCHOOLTEACHER

1105  
01:27:11,150 --> 01:27:14,080  
TO MAKE SURE THAT I WAS  
RECEIVING THE BEST EDUCATION

1106  
01:27:14,080 --> 01:27:19,179  
THAT MY NEIGHBORHOOD CAN OFFER.  
SO BECAUSE OF IT, I'VE HAD

1107  
01:27:19,179 --> 01:27:24,429  
ACCESS TO SO MANY OPPORTUNITIES,  
ENRICHMENT, GREAT TEACHERS, A

1108  
01:27:24,429 --> 01:27:29,370  
PATHWAY INTO COLLEGE.  
GROWING UP, I ALWAYS REALIZED

1109  
01:27:29,370 --> 01:27:33,739  
THAT I WAS RECEIVING A DIFFERENT  
EDUCATION THAN MY PEERS IN MY

1110  
01:27:33,739 --> 01:27:38,710  
NEIGHBORHOOD BUT IT WASN'T UNTIL  
I WAS TRANSITIONING INTO COLLEGE

1111

01:27:38,710 --> 01:27:42,630  
THAT I STARTED GETTING A FULL  
UNDERSTANDING OF EDUCATIONAL

1112  
01:27:42,630 --> 01:27:46,929  
DISPARITIES.  
SO, I WAS ON MY FIRST COLLEGE

1113  
01:27:46,929 --> 01:27:52,810  
INTERVIEW AND I JUST HAPPENED TO  
STUMBLE UPON A CONFERENCE ACT

1114  
01:27:52,810 --> 01:27:55,970  
THE ACHIEVEMENT GAP.  
IT WAS THE FIRST TIME THAT I

1115  
01:27:55,970 --> 01:28:02,160  
HEARD THAT 1 # 0% OF PEOPLE FROM  
LOW INCOME COMMUNITIES GRADUATE

1116  
01:28:02,160 --> 01:28:05,370  
FROM COLLEGE.  
THIS WAS STRIKING.

1117  
01:28:05,370 --> 01:28:11,610  
I WAS LIVING IN AN IMPOVERISHED  
NEIGHBORHOOD.

1118  
01:28:11,610 --> 01:28:19,429  
I LEARNED ABOUT THE NUMBERS.  
THIS STATISTIC CHANGED MY LIFE

1119  
01:28:19,429 --> 01:28:24,920  
BECAUSE FROM THAT DAY ON WHEN I  
WAS IN COLLEGE AND DURING MY

1120  
01:28:24,920 --> 01:28:31,280  
EARLY CAREER, I I WAS MOTIVATED  
DAILY TO FIGURING OUT WHAT I CAN

1121

01:28:31,280 --> 01:28:37,489  
DO TO MAKE SURE THAT THE 90% OF  
KIDS IN MY NEIGHBORHOOD THAT

1122  
01:28:37,489 --> 01:28:41,050  
WEREN'T GOING TO SUCCEED IN  
COLLEGE HAD AN ALTERNATIVE

1123  
01:28:41,050 --> 01:28:48,170  
PATHWAY.  
SO, I CO-FOUNDED A NON-PROFIT

1124  
01:28:48,170 --> 01:28:51,250  
ORGANIZATION CALLED THE  
KNOWLEDGE HOUSE.

1125  
01:28:51,250 --> 01:28:57,540  
WE PROVIDE TECH EDUCATION AND  
JOB TRAINING PRIMARILY IN THE 48

1126  
01:28:57,540 --> 01:29:01,000  
BRONX TO TO MAKE SURE THEY HAVE  
SUCCESS.

1127  
01:29:01,000 --> 01:29:05,840  
WE DO THIS BY ORGANIZING THE THE  
LOCAL INVASION ECONOMY SO THAT I

1128  
01:29:05,840 --> 01:29:10,380  
CAN CONVENE EDUCATORS, INDUSTRY  
STAKE HOLDERS AND OTHER

1129  
01:29:10,380 --> 01:29:14,719  
RESOURCES THAT WILL PROVIDE  
ALTERNATIVE PATHWAYS TO THAOE

1130  
01:29:14,719 --> 01:29:20,760  
YOUNG ADULTS. A YEAR AGO, I  
BECAME A DATA KNOT.

1131

01:29:20,760 --> 01:29:25,760  
[ APPLAUSE ]  
>> AND THIS IS ME AT THE PODIUM

1132  
01:29:25,760 --> 01:29:29,280  
AT CIVIL HALL.  
I E WAS SPEAKING AT THE THE

1133  
01:29:29,280 --> 01:29:34,910  
SPACE-X CHALLENGE AND I URGED  
THE GIRLS TO THINK OF DATA, NOT

1134  
01:29:34,910 --> 01:29:40,150  
ONLY AS ANALYZING, GRAPHS,  
ANALYZING RESEARCH BUT DATA IS

1135  
01:29:40,150 --> 01:29:44,060  
ABOUT LEARNING FROM PEOPLE,  
LISTENING AND TELLING THEIR

1136  
01:29:44,060 --> 01:29:50,260  
STORIES.  
SO, I WAS SO INSPIRED TO BE IN

1137  
01:29:50,260 --> 01:29:54,170  
THIS COMMUNITY OF DATA KNOTS.  
THEY WERE MAKERS, CORPORATE

1138  
01:29:54,170 --> 01:29:58,320  
PROFESSIONALS, THEY WERE DATA  
SCIENTISTS THAT WERE USING DATA

1139  
01:29:58,320 --> 01:30:02,030  
AND TECH FOR GOOD.  
IT REALLY MOTIVATED ME TO GO

1140  
01:30:02,030 --> 01:30:06,390  
BACK TO MY NEIGHBORHOOD AND BE  
MORE INTENTIONAL ABOUT HOW I WAS

1141

01:30:06,390 --> 01:30:11,800  
USING DATA WITH MY STUDENTS.  
SO, THESE ARE SOME OF MY

1142  
01:30:11,800 --> 01:30:16,969  
STUDENTS AND WE LITERALLY YOUED  
DATA EVERY DAY.

1143  
01:30:16,969 --> 01:30:21,450  
WHEN I WENT BACK TO THE BRONX, I  
REVISITED THIS ISSUE OF OUT OF

1144  
01:30:21,450 --> 01:30:25,320  
SCHOOL AND OUT OF WORK YOUTH.  
IN THE BRONX, WE HAVE THE

1145  
01:30:25,320 --> 01:30:30,790  
HIGHEST RATE OF 16-24-YEAR-OLDS  
THAT ARE UNEMPLOYED AND NOT IN

1146  
01:30:30,790 --> 01:30:34,280  
SCHOOL.  
THAT'S 36% SO THIS' VERY HIGH.

1147  
01:30:34,280 --> 01:30:37,890  
I ENGAGED MY YOUNG ADULTS.  
FOUR OF MY JOB TRAININGS IN

1148  
01:30:37,890 --> 01:30:43,760  
PARTICULAR AND WE STARTED  
STORMING AROUND THIS ISSUE AND I

1149  
01:30:43,760 --> 01:30:49,280  
ASKED THEM HOW DO WE RECONNECT  
AND REENGAGE THIS INTERVIEW SO

1150  
01:30:49,280 --> 01:30:53,971  
THAT THEY CAN GO BACK TO SCHOOL  
AND TAKE ADVANTAGE OF THE 49

1151

01:30:53,971 --> 01:30:55,929  
OPPORTUNITIES AND THE TECH  
SECTOR.

1152  
01:30:55,929 --> 01:31:00,679  
SO WE PARTNERED WITH THE DATA  
CONSULTANT AND WE LAUNCHED A

1153  
01:31:00,679 --> 01:31:04,640  
DESIGN CHALLENGE.  
MY FOUR STUDENTS ASKED

1154  
01:31:04,640 --> 01:31:08,429  
THEMSELVES AND THEIR PEERS WHAT  
ARE THE CHALLENGES AND

1155  
01:31:08,429 --> 01:31:16,190  
OPPORTUNITIES THAT YOUNG PEOPLE  
FACE WHEN THEY ARE SEEKING JOBS.

1156  
01:31:16,190 --> 01:31:20,440  
THIS IS THE DATA THAT THEY  
COLLECTED. SO WE CREATED A MIND

1157  
01:31:20,440 --> 01:31:25,590  
SET MAP OF THE FEELINGS AND  
BEHAVIORS THAT YOUNG PEOPLE HAVE

1158  
01:31:25,590 --> 01:31:29,690  
IN RELATION TO EDUCATIONAL  
ACHIEVEMENT AND THE JOB SEARCH

1159  
01:31:29,690 --> 01:31:33,090  
PROCESS.  
SO YOU HAVE THINGS HERE ABOUT

1160  
01:31:33,090 --> 01:31:35,690  
BEING NERVOUS.  
YOU HAVE THINGS HERE ABOUT

1161

01:31:35,690 --> 01:31:39,000  
PAYING STUDENT LOANS, NOT BEING  
ABLE TO FINISH SCHOOL BECAUSE

1162  
01:31:39,000 --> 01:31:43,420  
YOU ARE IN DEBT WITHOUT  
FINISHING COLLEGE AND WHAT'S

1163  
01:31:43,420 --> 01:31:48,520  
INTERESTING IS THEY TOOK THAT  
DATA AND THEY IDIATED THIS

1164  
01:31:48,520 --> 01:31:53,670  
PROTOE TYPE.  
SO IN FEBRUARY THEY LAUNCHED A

1165  
01:31:53,670 --> 01:31:58,340  
MENTOR APP.  
SO THIS IS THE DESIGN AND THE

1166  
01:31:58,340 --> 01:32:02,600  
APP LETS MENTEES KNOW WHAT THEIR  
GROWTH AREAS ARE, WHAT THEIR

1167  
01:32:02,600 --> 01:32:07,350  
STRENGTHS ARE IN TERMS OF CAREER  
READINESS AND IT MATCHES THEM TO

1168  
01:32:07,350 --> 01:32:11,930  
THE RIGHT MENTOR AT THE RIGHT  
TECH COMPANY.

1169  
01:32:11,930 --> 01:32:14,540  
WHAT'S EXCITING ABOUT THIS  
PRODUCT IS IT'S STILL IN

1170  
01:32:14,540 --> 01:32:19,880  
DEVELOPMENT BUT SINCE FEBRUARY,  
MY STUDENTS HAVE ALREADY SERVED

1171

01:32:19,880 --> 01:32:25,630  
60 MENTORS AND MENTEES IN  
MENTORSHIP PROGRAMS SO WE'RE ON

1172  
01:32:25,630 --> 01:32:28,220  
TRACK SO WE'RE ON TRACK TO  
LAUNCHING THIS TOOL AND SCALING

1173  
01:32:28,220 --> 01:32:34,640  
IT.  
IT'S JUST EXCITING THAT THIS

1174  
01:32:34,640 --> 01:32:39,770  
TOOL CAME FROM THE YOUNG PEOPLE.  
THAT WE INTEND TO SERVE.

1175  
01:32:39,770 --> 01:32:43,350  
THIS ISN'T THE ONLY WAY THAT  
WE'RE USING DATA. 50

1176  
01:32:43,350 --> 01:32:48,410  
AS PART OF OUR PROGRAM, WE  
MOTIVATE OUR STUDENTS WITH DATA.

1177  
01:32:48,410 --> 01:32:52,360  
DURING ORIENTATION, WE REVIEW  
POVERTY RATES, UNEMPLOYMENT

1178  
01:32:52,360 --> 01:32:57,540  
RATES, AS A COMMUNITY WE NEED TO  
UNDERSTAND HOW URGENT THESE

1179  
01:32:57,540 --> 01:33:01,290  
ISSUES ARE AND HOW, AS A  
COLLECTIVE WE CAN WORK TOGETHER

1180  
01:33:01,290 --> 01:33:05,080  
TO PROBLEM SOLVE.  
THROUGHOUT THEIR TRAINING

1181

01:33:05,080 --> 01:33:10,280  
PROGRAM, OUR STUDENTS HELP EACH  
OTHER PERSIST BECAUSE WE REVIEW

1182  
01:33:10,280 --> 01:33:14,429  
LABOR MARKET DATA ALL THE TIME.  
THEY KNOW THAT THERE WILL BE

1183  
01:33:14,429 --> 01:33:19,430  
1.4 MILLION JOBS IN JUST FOUR  
YEARS AND KNOW THAT 44 THIS% OF

1184  
01:33:19,430 --> 01:33:23,130  
THESE JOBS DON'T REQUIRE A  
COLLEGE CREDENTIAL.

1185  
01:33:23,130 --> 01:33:26,440  
AT THE END OF THE PROGRAM, OUR  
STUDENTS ARE TASKED WITH

1186  
01:33:26,440 --> 01:33:30,260  
CREATING TECH PRODUCTS THAT ARE  
ADDRESSED A USER OR COMMUNITY

1187  
01:33:30,260 --> 01:33:34,450  
NEEDS.  
SO THEY ARE TAKING DATA,

1188  
01:33:34,450 --> 01:33:39,980  
VALIDATING PROBLEMS AND IDIATING  
DATA-DRIVEN SOLUTIONS.

1189  
01:33:39,980 --> 01:33:45,929  
THIS IS ONE EXAMPLE HERE.  
ONE OF OUR TOP TECHNOLOGISTS

1190  
01:33:45,929 --> 01:33:51,230  
WAS HIRED BY NOAH TO CREATE A  
VIDEO GAME THAT RAISES AWARENESS

1191

01:33:51,230 --> 01:33:56,400  
ABOUT OCEAN AND CLIMATE DATA.  
THIS IS JUST ONE EXAMPLE.

1192  
01:33:56,400 --> 01:33:59,980  
OUR STUDENTS ARE CREATING MOBILE  
APPS THAT RAISE AWARENESS ABOUT

1193  
01:33:59,980 --> 01:34:09,740  
SCHOOL BULLYING.  
TY URGE YOU ALL TO -- I URGE YOU

1194  
01:34:09,740 --> 01:34:15,100  
ALL TO EMPOWER YOUNG PEOPLE TO  
DATA AND INFORMATION SO THEY CAN

1195  
01:34:15,100 --> 01:34:19,980  
SOLVE THEIR OWN PROBLEMS AND I  
LOOK FORWARD TO ENGAGING WITH

1196  
01:34:19,980 --> 01:34:24,730  
THE NASA COMMUNITY TO START  
TINKERING WITH NASA DATA SO IT

1197  
01:34:24,730 --> 01:34:27,610  
BECOMES MORE ACCESSIBLE TO THOSE  
COMMUNITIES THAT WE SERVE AS

1198  
01:34:27,610 --> 01:34:32,340  
WELL.  
THANK YOU.

1199  
01:34:32,340 --> 01:34:37,080  
[ APPLAUSE ]  
>> THANK YOU.

1200  
01:34:37,080 --> 01:34:45,130  
OUR LAST SPEAKER IS FROM  
DR. SHOBHANA GUPTA. 51

1201

01:34:45,130 --> 01:34:49,050  
SHE MANAGES THE HEALTH AND AIR  
QUALITY PORTFOLIO FOR THE

1202  
01:34:49,050 --> 01:34:53,390  
APPLIED THE SCIENCES PROGRAM.  
SHE WAS A FIRST TIME OWNER IN

1203  
01:34:53,390 --> 01:34:59,290  
THIS YEARS SPACE APP CHALLENGE  
AND WAS IN NEW YORK CITY.

1204  
01:34:59,290 --> 01:35:01,960  
WELCOME.  
>> THANK YOU.

1205  
01:35:01,960 --> 01:35:07,360  
>> HI, EVERYONE.  
IT HAS BEEN AN INSPIRING DAY.

1206  
01:35:07,360 --> 01:35:10,489  
THIS IS AMAZING.  
JUST LISTENING TO MY COLLEAGUES

1207  
01:35:10,489 --> 01:35:14,570  
TALK ABOUT MY WORK.  
IT'S BEEN INCREDIBLE AND I'M

1208  
01:35:14,570 --> 01:35:17,949  
SURE A LOT OF YOU ARE AS  
INSPIRED AND READY TO GO OUT AND

1209  
01:35:17,949 --> 01:35:25,030  
DO NEW THINGS LIKE I AM.  
I AM A AAA SCIENCE AND

1210  
01:35:25,030 --> 01:35:34,940  
TECHNOLOGY FELLOW HERE AT NASA.  
I GREW UP IN INDIA AND I LIVED

1211

01:35:34,940 --> 01:35:38,780  
IN NEW DHELI NULL I WAS 15 YEARS  
OLD IN MY FAMILY.

1212  
01:35:38,780 --> 01:35:47,489  
I AM OBSESSED WITH MY PHOTOS. .  
I WAS VERY FORTUNATE.

1213  
01:35:47,489 --> 01:35:52,550  
WHEN YOU HAVE CUTE BABY PHOTOS  
YOU JUST FOCUS ON THE EARLY

1214  
01:35:52,550 --> 01:35:58,320  
ONES.  
I WAS FORTUNATE TO HAVE AMAZING

1215  
01:35:58,320 --> 01:36:01,949  
PARENTS.  
THAT'S MY MOTHER UP IN THE TOP

1216  
01:36:01,949 --> 01:36:06,199  
RIGHT AND SHE USED TO READ ME  
STORIES ABOUT BRAVE WOMAN WHEN I

1217  
01:36:06,199 --> 01:36:10,739  
WAS YOUNG.  
BOTH MY PARENTS, MY DAD AND MOM

1218  
01:36:10,739 --> 01:36:17,020  
HAD SO MUCH FAITH IN ME AND SO  
MANY EXPECTATIONS, TOO.

1219  
01:36:17,020 --> 01:36:19,929  
WITH THEIR SUPPORT, AND ALSO  
WITH THAT OF A VERY AMAZING

1220  
01:36:19,929 --> 01:36:26,120  
LITTLE BROTHER, I GREW UP WITH A  
SOLID FOUNDATION AND SELF

1221

01:36:26,120 --> 01:36:31,050  
CONFIDENCE AND MEGAN MENTIONED  
SELF CONFIDENCE EARLIER TODAY.

1222  
01:36:31,050 --> 01:36:37,699  
I WANT TO SAY HOW AMAZING IT WAS  
TO HAVE THAT FROM THE VERY

1223  
01:36:37,699 --> 01:36:42,010  
BEGINNING FROM MY PARENTS.  
SO IN 1 0th GRADE, MY

1224  
01:36:42,010 --> 01:36:50,210  
PARENTS MOVED TO A SMALL TOWN  
IN

1225  
01:36:50,210 --> 01:36:55,770  
TENNESSEE.  
IT'S A REALLY SMALL TOWN.

1226  
01:36:55,770 --> 01:37:00,150  
IT WAS HARD TRANSITIONING TO A 52  
NEW PLACE.

1227  
01:37:00,150 --> 01:37:06,180  
IT'S A WONDERFUL PLACE WITH  
AMAZING, KIND AND CARING PEOPLE.

1228  
01:37:06,180 --> 01:37:18,570  
THAT MADE THE MOVE VERY EASY.  
I WAS AT THE MEDICAL SCHOOL, I

1229  
01:37:18,570 --> 01:37:23,880  
WAS THERE FOR 12 YEARS.  
I THINK I OWE THEM A FIRST BORN.

1230  
01:37:23,880 --> 01:37:30,170  
MOVING TO A NEW ENVIRONMENT  
WHETHER IT'S MOVING TO A NEW

1231

01:37:30,170 --> 01:37:42,000  
LOCATION OR GOING FROM HIGH  
SCHOOL TO COLLEGE

1232  
01:37:42,000 --> 01:37:44,960  
IS HARD.  
I WAS ABLE TO CULTIVATE

1233  
01:37:44,960 --> 01:37:54,350  
MENTORSHIPS TO ME.  
IT FORT IDENTIFIED THAT SELF

1234  
01:37:54,350 --> 01:37:57,449  
CONFIDENCE THAT MY FAMILY  
INSTILLED IN ME.

1235  
01:37:57,449 --> 01:38:01,239  
THAT BECAME VERY IMPORTANT.  
AS I MADE VARIOUS CAREER.

1236  
01:38:01,239 --> 01:38:06,120  
WHEN I MOVED FROM THE MEDICAL  
SCHOOL TO THE RESEARCH LAB.

1237  
01:38:06,120 --> 01:38:13,990  
INSTEAD OF PRACTICING, I WANTED  
TO DO RESEARCH.

1238  
01:38:13,990 --> 01:38:22,810  
THERE WAR LOT OF CHALLENGES IN  
THE SHAPE OF NEGATIVITY AND JUST

1239  
01:38:22,810 --> 01:38:26,600  
FEAR OF FAILURE AND DOUBT BUT  
IT'S THAT SELF CONFIDENCE THAT

1240  
01:38:26,600 --> 01:38:33,719  
MY FAMILY AND MY FRIENDS -- THE  
CONFIDENCE THAT THEY HAVE

1241

01:38:33,719 --> 01:38:37,940  
INSTILLED IN ME THAT ALLOWED  
KNOW CONTINUE TO STAND AND

1242  
01:38:37,940 --> 01:38:40,480  
CONTINUED TO KEEP MOVING  
FORWARD.

1243  
01:38:40,480 --> 01:38:44,199  
NO MATTER HOW MANY TIMES PEOPLE  
SAY GOOD THINGS TO YOU, EVEN ONE

1244  
01:38:44,199 --> 01:38:49,920  
NEGATIVE COMMENT CAN UNDO YEARS  
OF GOOD THINGS THAT YOU HAVE

1245  
01:38:49,920 --> 01:38:52,300  
GOING ON.  
ONE TEACHER SAYING SOMETHING

1246  
01:38:52,300 --> 01:38:57,989  
LIKE, "YOU CAN'T DO THIS "WHICH  
UNFORTUNATELY I HAD THIS.

1247  
01:38:57,989 --> 01:39:02,050  
OR WHAT YOU ARE DOING IS  
IMPORTANT ENOUGH.

1248  
01:39:02,050 --> 01:39:05,390  
THOSE CAN REALLY UNDER MINE  
YEARS OF SELF CONFIDENCE.

1249  
01:39:05,390 --> 01:39:10,449  
FIT WASN'T HAVING -- IF IT  
WASN'T HAVING A GREAT FOUNDATION

1250  
01:39:10,449 --> 01:39:19,040  
FROM MY PARENTS  
THEY WOULD HAVE

1251

01:39:19,040 --> 01:39:29,670  
ONLY ERODED A LITTLE BIT.  
SOME STUCK AROUND.

1252  
01:39:29,670 --> 01:39:33,260  
IT'S IMPORTANT WHEN WE TALK TO 53  
WOMAN, ESPECIALLY YOUNG GIRLS TO

1253  
01:39:33,260 --> 01:39:37,140  
START FROM THE VERY BEGINNING  
AND MAKE SURE WE BUILD THAT SELF

1254  
01:39:37,140 --> 01:39:41,570  
CONFIDENCE IN THEM.  
>> AFTER MEDICAL SCHOOL I

1255  
01:39:41,570 --> 01:39:48,680  
ATTENDED YALE.  
I WANTED TO BROADEN MY SCOPE OF

1256  
01:39:48,680 --> 01:39:52,940  
STUDY.  
I WANTED TO GO FROM ONE DISEASE

1257  
01:39:52,940 --> 01:39:56,840  
TO LOOKING AT THE BIGGER PICTURE  
AND HOW I CAN MAKE A DIFFERENCE

1258  
01:39:56,840 --> 01:40:00,750  
ON THE LARGER SCALE.  
I JOINED THIS GROUP KNOWN AS THE

1259  
01:40:00,750 --> 01:40:09,040  
THE YALE SIGN DIPLOMATE AND HOW  
WE CAN U USE THE SCIENCE THAT WE

1260  
01:40:09,040 --> 01:40:12,981  
HAVE IN PLACE.  
I GOT SO HOOKED WITH ALL THE THE

1261

01:40:12,981 --> 01:40:17,850  
LOCAL AND STATE AND NATIONAL  
ISSUES, THAT I WANTED TO SEE HOW

1262  
01:40:17,850 --> 01:40:21,350  
I CAN MAKE THIS THE NEXT STEP OF  
MY CAREER.

1263  
01:40:21,350 --> 01:40:26,180  
SO, I LOOKED FOR OPPORTUNITIES  
AND I HEAD ART THE AAA SCIENCE

1264  
01:40:26,180 --> 01:40:29,520  
AND TECHNOLOGY POLICY FELLOWSHIP  
WHICH I'M IN TODAY THROUGH THE

1265  
01:40:29,520 --> 01:40:33,020  
AMERICAN SOBER KWRAEUG THROUGH  
ASSOCIATION FOR SCIENCE.

1266  
01:40:33,020 --> 01:40:38,960  
HERE I AM HERE TODAY AT NASA.  
AN AWKWARD AND ROUNDABOUT WAY TO

1267  
01:40:38,960 --> 01:40:43,909  
GET HERE.  
SO, ABOUT FOUR MONTHS IN MY

1268  
01:40:43,909 --> 01:40:46,909  
FELLOWSHIP I GET AN E-MAIL FROM  
MY BOSS.

1269  
01:40:46,909 --> 01:40:51,260  
THIS IS AFTER THE HOLIDAYS.  
THERE'S A PROGRAM KNOWN AS THE

1270  
01:40:51,260 --> 01:40:54,610  
SPACE APP CHALLENGE WOULD YOU  
LIKE TO BE THE TEAM LEAD FOR THE

1271

01:40:54,610 --> 01:41:02,871  
ART T CHALLENGES CATEGORY.  
I HEARD OF SPACE APP CHALLENGE

1272  
01:41:02,871 --> 01:41:06,239  
HERE AT NASA BUT I'M NOT A  
CODER.

1273  
01:41:06,239 --> 01:41:10,050  
I AM NOT A MAKER.  
I TOOK A METAL SHOP ONCE BUT THE

1274  
01:41:10,050 --> 01:41:14,360  
ONLY THING I MADE WAS A BLOCK  
WITH SMOOTH EDGES.

1275  
01:41:14,360 --> 01:41:19,290  
I HAVE NO HARDWARE EBG  
KPWRAOERPBG -- EXPERIENCE HERE.

1276  
01:41:19,290 --> 01:41:24,040  
THIS IS A GREAT LEARNING  
OPPORTUNITY AND LET ME SEE WHAT

1277  
01:41:24,040 --> 01:41:26,449  
I CAN LEARN FROM THESE PEOPLE 54  
WHO ARE CREATING AMAZING THINGS

1278  
01:41:26,449 --> 01:41:35,480  
EVERY DAY.  
I JOINED THE TALENT BUT WANTED

1279  
01:41:35,480 --> 01:41:40,550  
TO SEE WHAT I COULD BRING TO THE  
TABLE SO I SAID OKAY I WILL DO

1280  
01:41:40,550 --> 01:41:44,680  
THE CHALLENGE BUT I WANT TO  
CREATE MY OWN CHALLENGE AND WHAT

1281

01:41:44,680 --> 01:41:48,460  
WE HAD PEOPLE DO WAS LOOK AT AIR  
QUALITY DATA AND SEE HOW WE CAN

1282  
01:41:48,460 --> 01:41:52,010  
RELATE THAT TO THINGS AND  
SYMPTOMS THAT WE SEE AND FEEL.

1283  
01:41:52,010 --> 01:41:55,140  
IF YOU SEE AIR QUALITY AND YOU  
HAVE A STUFFY NOSE OR HAVE

1284  
01:41:55,140 --> 01:42:01,260  
TROUBLE BREATHING.  
AIM PROUD TO SAY IT IT WAS MOST

1285  
01:42:01,260 --> 01:42:07,910  
POPULAR CHALLENGE THIS YEAR FROM  
ALL THE CHALLENGES, THANK YOU.

1286  
01:42:07,910 --> 01:42:14,070  
AND THIS IS ONE OF THE  
SOLUTIONS.

1287  
01:42:14,070 --> 01:42:17,050  
>> THE RISK OF PUBLIC HEALTH IS  
HIGHEST IN DEVELOPING NATIONS

1288  
01:42:17,050 --> 01:42:21,150  
WHO LACK ACCESS TO CURRENT AIR  
QUALITY AND INFORMATION.

1289  
01:42:21,150 --> 01:42:26,739  
>> WE COMPARE DATA FROM NASA AND  
THE AIR QUALITY MONITORING

1290  
01:42:26,739 --> 01:42:31,760  
STAYING ANYWHERE IN THE WORLD.  
OUR WEB PORTAL MAKES POLLUTION

1291

01:42:31,760 --> 01:42:34,679  
CON SEND TRAEUGS EASILY  
AVAILABLE TO THOSE WHO NEED IT

1292  
01:42:34,679 --> 01:42:37,199  
MOST.  
>> WE PULLED REAL TIME FROM

1293  
01:42:37,199 --> 01:42:40,409  
TWITTER AND USED MACHINE  
LEARNING TO BETTER UNDERSTAND

1294  
01:42:40,409 --> 01:42:46,159  
THE RESHRA\*EUPGS BETWEEN AIR  
QUALITY AND PUBLIC HEALTH.

1295  
01:42:46,159 --> 01:42:50,469  
>> THIS IS ONE OF THE CHALLENGES  
THAT WON THE BEST USE OF DATA

1296  
01:42:50,469 --> 01:42:59,130  
AWARD THIS YEAR.  
REALLY GREAT JOB.

1297  
01:42:59,130 --> 01:43:11,880  
AS PART OF THE THE CHALLENGE, I  
MET LAURA DOYLE.

1298  
01:43:11,880 --> 01:43:17,250  
SHE IS A 9-YEAR-OLD AND SHE LED  
HER CHALLENGE.

1299  
01:43:17,250 --> 01:43:28,220  
>> THINK HARD.  
TWO HOURS A DAY JUST TO KEEP

1300  
01:43:28,220 --> 01:43:36,310  
SAFE.  
WE ARE MAKING IT FUN.

1301

01:43:36,310 --> 01:43:45,170  
MY NAME IS LAURA DOYLE.  
I'M NINE.

1302  
01:43:45,170 --> 01:43:51,300  
OUR TEAM -- 55  
>> YEAH.

1303  
01:43:51,300 --> 01:44:01,670  
>> IF YOU WERE ONE OF THE THE  
TOP 25 SEMIFINALISTS.

1304  
01:44:01,670 --> 01:44:04,350  
IT SHOWED ME THAT ANYONE CAN DO  
THIS.

1305  
01:44:04,350 --> 01:44:10,239  
THIS IS A SAFE PLACE FOR MEN AND  
WOMAN TO COME TOGETHER AND GAIN

1306  
01:44:10,239 --> 01:44:14,350  
THE CONFIDENCE TO BECOME FUTURE  
LEADER AND INNOVATORS.

1307  
01:44:14,350 --> 01:44:20,100  
I HAVE BEEN LUCKY TO HAVE REALLY  
INSPIRING PEOPLE AND SUPPORTIVE

1308  
01:44:20,100 --> 01:44:24,030  
PEOPLE.  
THIS IS MY MOM WHO WAS AMAZING.

1309  
01:44:24,030 --> 01:44:32,929  
I AM NOW OUT LEARNING CODE.  
I AM EXCITED.

1310  
01:44:32,929 --> 01:44:35,040  
THERE ARE FREE RESORES OUT  
THERE.

1311

01:44:35,040 --> 01:44:38,969  
IF YOU WANT TO DO IT.  
I USED TO BE A TKHAPL ONFOR ALL

1312  
01:44:38,969 --> 01:44:46,690  
THINGS DATA AND NOW I CAN'T WAIT  
TO BE PART OF IT AND SO CAN YOU

1313  
01:44:46,690 --> 01:44:50,760  
SO THANK YOU.  
>> THANK YOU DR. GUPTA.

1314  
01:44:50,760 --> 01:44:56,249  
LET'S HEAR FROM SOME MORE WOMAN  
FROM NASA.

1315  
01:44:56,249 --> 01:45:01,660  
>>> IT CONTINUES INSPIRES GIRLS  
IN THE SPACE PROGRAM.

1316  
01:45:01,660 --> 01:45:07,260  
AIM SO THANKFUL TO ENGINEERS WHO  
ARE THE FIRST WOMAN TO OVERSEE

1317  
01:45:07,260 --> 01:45:12,500  
THE LAUNCH TEAM.  
>> BEING THE LAUNCH DIRECTOR IS

1318  
01:45:12,500 --> 01:45:17,310  
PRETTY EXCITING.  
WE WILL HAVE A VEHICLE THAT IS

1319  
01:45:17,310 --> 01:45:24,330  
OVER 300 FEET TALL.  
I CAN'T WAIT TO SEE THAT.

1320  
01:45:24,330 --> 01:45:27,679  
IT'S GOING TO BE AMAZING.  
YOU COUPLE THAT WITH THE STATE

1321

01:45:27,679 --> 01:45:32,250  
OR THE ART SPACECRAFT ALLIANCE.  
THE DESTINATION AND CAPABILITIES

1322  
01:45:32,250 --> 01:45:35,530  
THAT THE PEOPLE IN OUR AGENCY  
ARE.

1323  
01:45:35,530 --> 01:45:39,690  
IT'S SOMETHING AMAZING.  
BEING IN CHARGE OF THE LAUNCH

1324  
01:45:39,690 --> 01:45:43,510  
TEAM ON THE LAUNCH DAY IS  
SOMETHING THAT I AM VERY MUCH

1325  
01:45:43,510 --> 01:45:46,120  
LOOK FORWARD TO.  
I LOOK FORWARD TO SEEING OUR

1326  
01:45:46,120 --> 01:45:49,080  
TEAM IN ACTION.  
I LOOK FORWARD TO LOOKING OUT

1327  
01:45:49,080 --> 01:45:54,230  
THE WINDOW AND ENGAGED IN THAT 56  
VEHICLE AS IT STANDS READY TO

1328  
01:45:54,230 --> 01:45:56,840  
LAUNCH.  
>> LEARN MORE ABOUT HEROIC WOMAN

1329  
01:45:56,840 --> 01:46:12,580  
LIKE HER AT NASA.GOV.  
>> AND, NOW WE ARE READY TO HEAR

1330  
01:46:12,580 --> 01:46:15,510  
FROM OUR SPEAKERS FOR THE Q&A  
SESSION.

1331

01:46:15,510 --> 01:46:19,190  
I WILL TAKE ADVANTAGE OF MY  
POSITION AS MODERATOR TO KICK IT

1332  
01:46:19,190 --> 01:46:25,219  
OFF WITH A QUESTION.  
THIS IS FOR ALL OF YOU.

1333  
01:46:25,219 --> 01:46:28,900  
ONE OF OUR GOALS FOR THIS VENT  
IS TO SPARK IDEAS FOR PEOPLE TO

1334  
01:46:28,900 --> 01:46:31,250  
TAKE BACK TO THEIR OWN  
ORGANIZATIONSATIONS AND

1335  
01:46:31,250 --> 01:46:34,650  
COMMUNITIES.  
IF YOU HAVE ONE TAKE AWAY.

1336  
01:46:34,650 --> 01:46:38,110  
EVERYONE WATCHING TO TAKE BACK  
TO THEIR COMMUNITIES OR

1337  
01:46:38,110 --> 01:46:40,560  
ORGANIZATION -RGS WHAT WOULD IT  
BE?

1338  
01:46:40,560 --> 01:46:49,520  
>> WHEN HE START WITH THAT.  
>> I KNOW I ANSWERED EARLIER.

1339  
01:46:49,520 --> 01:46:53,270  
WE WANT TO KNOW ABOUT YOUR  
COMMUNITIES AND WE THINK -- IF

1340  
01:46:53,270 --> 01:46:56,449  
YOU ARE REACHING OUT TO GIRLS  
AND WOMAN YOU SHOULD KNOW ABOUT

1341

01:46:56,449 --> 01:47:00,679  
THE GIRLS AND WOMAN THAT YOU ARE  
ALSO REACHING OUT TO.

1342  
01:47:00,679 --> 01:47:08,780  
IF YOU CAN FIND A WAY TO REALLY  
TAYLOR WHATEVER YOU'RE DOING.

1343  
01:47:08,780 --> 01:47:16,130  
WE CAN SHARE THAT.  
IF WE FIGURED IT OUT, WE WILL

1344  
01:47:16,130 --> 01:47:19,180  
PUT NIT A TOOL KIT.  
THERE'S SO MUCH WE DON'T KNOW

1345  
01:47:19,180 --> 01:47:23,150  
HOW TO DO.  
YOU CAN LEARN FROM EACH OTHER.

1346  
01:47:23,150 --> 01:47:29,600  
THE BIGGEST POINT IS TO BE  
INTENTIONAL.

1347  
01:47:29,600 --> 01:47:33,330  
IF YOU ARE REACHING OUT TO THE  
LOSS, WHO EVER YOUR LOST

1348  
01:47:33,330 --> 01:47:38,640  
COMMUNITY IS, GO INTO THE  
COMMUNITY AND ASK THEM WHAT DO

1349  
01:47:38,640 --> 01:47:40,699  
THEY WANT?  
WHAT DOES IT TAKE FOR THEM TO

1350  
01:47:40,699 --> 01:47:46,929  
COME TO YOU AND THEN BUILD IT.  
WE DON'T KNOW THOUSAND GET WOMAN

1351

01:47:46,929 --> 01:47:51,949  
TO ENGAGE IN DATA.  
HELP US UNDERSTAND YOUR

1352  
01:47:51,949 --> 01:48:00,970  
COMMUNITY. 57  
IT'S FINE TO SAY I DON'T KNOW

1353  
01:48:00,970 --> 01:48:07,580  
HOW TO DO IT.  
GO FIND OUT.

1354  
01:48:07,580 --> 01:48:13,860  
AND WHEN YOU FIGURE IT OUT, TELL  
US.

1355  
01:48:13,860 --> 01:48:20,460  
>> THE NUMBER ONE THING I FEEL  
IN EVERYTHING WE HAVE DONE TO

1356  
01:48:20,460 --> 01:48:24,710  
ENGAGE GIRLS AND WOMAN.  
REMEMBER TO BE HUMAN WHEN YOU'RE

1357  
01:48:24,710 --> 01:48:30,070  
WORKING WITH THEM.  
ALLOW YOURSELF TO HAVE A

1358  
01:48:30,070 --> 01:48:35,180  
PERSONALITY AND HAVE THAT SHINE  
THROUGH SO IT'S RELATABLE AND

1359  
01:48:35,180 --> 01:48:37,870  
APPROACHABLE.  
MORE APPROPRIATELY BEING HUMAN

1360  
01:48:37,870 --> 01:48:41,590  
IS IS BEING OKAY WITH BEING  
VULNERABLE.

1361

01:48:41,590 --> 01:48:45,870  
NONE OF US ARE PERFECT.  
I AM A NASA ENGINEER.

1362  
01:48:45,870 --> 01:48:52,400  
I DON'T KNOW EVERYTHING.  
I'M OKAY THAT I'M LEARNING

1363  
01:48:52,400 --> 01:48:54,390  
THINGS.  
I THINK THAT'S AN IMPORTANT

1364  
01:48:54,390 --> 01:48:58,670  
EXAMPLE TO SET WHEN YOU TRY TO  
INSPIRE OTHER PEOPLE THE TO GET

1365  
01:48:58,670 --> 01:49:01,820  
INTO IT.  
WOW, A NASA ENGINEER CARES ABOUT

1366  
01:49:01,820 --> 01:49:07,190  
ME LEARNING BUT I'M COMFORTABLE  
TALKING TO HER AND ASKING HER

1367  
01:49:07,190 --> 01:49:11,100  
QUESTIONS BECAUSE SHE USED TO BE  
LEARNING, TOO.

1368  
01:49:11,100 --> 01:49:14,110  
JUST REMEMBER TO BRING THAT  
HUMAN ELEMENT TO THE TABLE SO

1369  
01:49:14,110 --> 01:49:19,750  
PEOPLE WILL FEEL COMFORTABLE.  
>> AND TINA?

1370  
01:49:19,750 --> 01:49:28,330  
>> I THINK FOR ME WHAT  
REPRESENTATION IT IS FOR ME WHEN

1371

01:49:28,330 --> 01:49:36,480  
GOING TO THE LEARNING TALK IN  
THE BOOT CAMP.

1372  
01:49:36,480 --> 01:49:41,949  
I SEE PEOPLE LIKE MICHELLE WHO  
HAS A DIFFERENT BACKGROUND AND I

1373  
01:49:41,949 --> 01:49:46,370  
RESONATE WITH THAT.  
WHATEVER IT IS THAT YOU ARE

1374  
01:49:46,370 --> 01:49:57,300  
TRYING TO REACH OUT TO.  
WOMAN ONLY LIKE FASHION -- I

1375  
01:49:57,300 --> 01:50:07,219  
LOVE ORANGE.  
ANYWAYS.

1376  
01:50:07,219 --> 01:50:11,560  
REPRESENT YOUR INTEREST BECAUSE  
MORE THAN LIKELY SOMEONE ELSE

1377  
01:50:11,560 --> 01:50:20,620  
WILL SHARE YOUR INTEREST. 58  
CAN I JUST ADD ONE POINT?

1378  
01:50:20,620 --> 01:50:26,960  
I HEARD ABOUT THIS BLIND GUY.  
HE DID NOT FIT IN ANY

1379  
01:50:26,960 --> 01:50:32,340  
STEREOTYPES.  
HE CAN RIDE A BIKE AND TURN

1380  
01:50:32,340 --> 01:50:37,650  
AROUND AND EVERYTHING.  
DON'T THINK WOMAN CAN'T DO THIS

1381

01:50:37,650 --> 01:50:40,450  
OR THAT.  
THAT'S ONE OF THE THINGS THAT I

1382  
01:50:40,450 --> 01:50:45,010  
WAS NEVER RESTRICTED AND THAT  
HELPED ME TRAN SEUG AND GO --

1383  
01:50:45,010 --> 01:50:50,289  
TRANSITION AND GO IN TO TECH OR  
WHATEVER YOU WANT TO GO INTO.

1384  
01:50:50,289 --> 01:50:55,610  
>> ON THAT NOTE, IF I CAN BE A  
DUMB MODEL, YOU BROKE THAT

1385  
01:50:55,610 --> 01:50:58,600  
STEREOTYPE.  
ANYBODY CAN DO THAT ANYTHING YOU

1386  
01:50:58,600 --> 01:51:04,800  
WANT YOU JUST HAVE TO WANT THE  
TRY.

1387  
01:51:04,800 --> 01:51:12,139  
>> NOW, YOU'RE A SUPER SMART  
MODEL.

1388  
01:51:12,139 --> 01:51:16,310  
>> I WOULD URGE ALLOFF AGAIN TO  
EMPOWER YOUNG PEOPLE.

1389  
01:51:16,310 --> 01:51:19,370  
LET THEM POWER OURSELVES WITH  
THE RIGHT TOOLS, INFORMATION AND

1390  
01:51:19,370 --> 01:51:24,820  
TECHNOLOGY TO BE INVEIGHTORS AND  
BE LEADERS AND SOLVING OUR OWN

1391

01:51:24,820 --> 01:51:28,270  
PROBLEMS, OUR COMMUNITY'S  
PROBLEMS.

1392  
01:51:28,270 --> 01:51:33,400  
SOCIETY IS GETTING CRAZY BUT  
THERE'S E AN EXCELLENT GROUP OF

1393  
01:51:33,400 --> 01:51:38,260  
WOMAN HERE THAT CAN TAKE MATTERS  
IN THEIR OWN HANDS AND BEST

1394  
01:51:38,260 --> 01:51:40,930  
MENTIONED EARLIER, WOMAN ARE  
MORE SOCIAL MINDED.

1395  
01:51:40,930 --> 01:51:45,270  
WE LIKE OH GIVE BACK SO IT'S  
VERY CRITICAL THAT WE START

1396  
01:51:45,270 --> 01:51:48,610  
EMPOWERING GIRLS AND WOMAN WITH  
THESE TOOLS SO WE CAN BE THE

1397  
01:51:48,610 --> 01:51:53,860  
LEAD EER TO SOLVE TOMORROW'S  
PROBLEMS BECAUSE WERE AWESOME

1398  
01:51:53,860 --> 01:52:05,060  
AND WE SHOULD DO THAT.  
IT'S IMPORTANT FOR US TO SUPPORT

1399  
01:52:05,060 --> 01:52:07,980  
EACH OTHER.  
NOT JUST WHEN PEOPLE ARE

1400  
01:52:07,980 --> 01:52:10,800  
STARTING OUT BUT THROUGH TOUGH  
TIMES.

1401

01:52:10,800 --> 01:52:16,210  
WE THINK THAT PEOPLE WHO DO DATA  
WERE BORN.

1402  
01:52:16,210 --> 01:52:23,110  
THAT'S NOT TRUE. 59  
EVERYBODY GOES THROUGH

1403  
01:52:23,110 --> 01:52:29,280  
CHALLENGES AND DIFFICULT TIMES.  
YOU WILL ALL FACE CHALLENGES

1404  
01:52:29,280 --> 01:52:32,389  
WHEN YOU TRY SOMETHING.  
IT'S OKAY.

1405  
01:52:32,389 --> 01:52:39,150  
EVERY POD DOES THIS BUT IF YOU  
KEEP WORKING HARD YOU CAN FIX ON

1406  
01:52:39,150 --> 01:52:47,950  
WHATEVER YOU PUT YOUR MIND TO.  
AS A GROUP OF WOMAN WE CAN ALL

1407  
01:52:47,950 --> 01:52:54,651  
MAKE IT THROUGH.  
>>> I WOULD LIKE TO -- IF YOU

1408  
01:52:54,651 --> 01:52:59,780  
HAVE NOTICED -- IN EACH ONE OF  
THE STORIES THEY ALL HAD PIVOTS.

1409  
01:52:59,780 --> 01:53:10,350  
THEY ARE OKAY.  
WHAT WE LEARNED IS THAT WOMAN --

1410  
01:53:10,350 --> 01:53:16,260  
I HATE DOING STEREOTYPES.  
WOMAN DON'T WANT TO BE IN TO ONE

1411

01:53:16,260 --> 01:53:18,230

THING.

AT THE DATA BOOT CAMP.

1412

01:53:18,230 --> 01:53:25,690

WE HAVE THEM TALK ABOUT OUR LIFE  
HACKS.

1413

01:53:25,690 --> 01:53:30,700

IT'S OKAY TO NOT DO ONE THING  
FOR THE REST OF YOUR LIFE.

1414

01:53:30,700 --> 01:53:39,660

MAYBE YOU STARTED AND THEN YOU  
MOVED IN TO POLICY WHICH IS THE

1415

01:53:39,660 --> 01:53:45,920

FUNNIEST ONE TO ME BUT SO GLAD.  
IT'S OKAY AND OKAY FOR YOU TO

1416

01:53:45,920 --> 01:53:50,530

ALLOW YOUR COMMUNITIES TO SAY  
YOU CAN DO THIS AND THIS.

1417

01:53:50,530 --> 01:54:06,600

IT'S NOT THIS OR THIS.  
YOU PICK UP ANOTHER SKILL THAT

1418

01:54:06,600 --> 01:54:14,850

WE HOPE IS CODING.  
>> SO ONE OF THE THE

1419

01:54:14,850 --> 01:54:20,639

STEPPINGSTONES TO ME IS GOING TO  
THE BOOT CAMP IS I READ ONE --

1420

01:54:20,639 --> 01:54:26,699

IS THAT NONE OF US KNOW WHAT WE  
ARE DOING.

1421

01:54:26,699 --> 01:54:30,800  
THAT GAVE ME THE COURAGE, I  
DON'T KNOW BUT THEY DON'T

1422  
01:54:30,800 --> 01:54:34,659  
EITHER.  
WE WILL ALL LEARN FROM EACH

1423  
01:54:34,659 --> 01:54:38,889  
OTHER.  
U JUST FROM MY EXPERIENCE IN THE

1424  
01:54:38,889 --> 01:54:46,389  
CODING SCHOOL AND WE HAVE A  
GROUP OF 23 PEOPLE AND ONLY FOUR

1425  
01:54:46,389 --> 01:54:50,739  
OF THEM ARE WOMAN BUT WE ARE  
VERY SUPPORTIVE.

1426  
01:54:50,739 --> 01:54:57,900  
PEOPLE TEND TO SAY THEY  
UNDERSTAND UNTIL WE ARE 99%

1427  
01:54:57,900 --> 01:55:01,139  
SURE. 60  
>> VERY DIFFERENT THAN A LOT OF

1428  
01:55:01,139 --> 01:55:02,830  
MEN.  
>> YEAH.

1429  
01:55:02,830 --> 01:55:11,389  
I AM LISTENING TO THEM AND HALF  
WAY THROUGH YOU HAVE NO IDEA

1430  
01:55:11,389 --> 01:55:14,670  
WHAT YOU'RE SAYING.  
I KNOW MORE THAN YOU.

1431

01:55:14,670 --> 01:55:17,800  
TRUST YOURSELF MORE AND DON'T  
LISTEN TO THE GUYS.

1432  
01:55:17,800 --> 01:55:22,800  
JUST KIDDING.  
>> IT PAYS TO SIT IN THE FRONT

1433  
01:55:22,800 --> 01:55:35,870  
ROW.  
>> YOU ARE IN OUR FAVORITE COLOR

1434  
01:55:35,870 --> 01:55:44,219  
ORANGE RIGHT HERE.  
>> THE COMMON THREAD I HEARD

1435  
01:55:44,219 --> 01:55:49,969  
RUNNING THROUGH IS CONFIDENCE.  
I KNOW A LOT OF WOMAN WHETHER

1436  
01:55:49,969 --> 01:55:53,810  
THEY ARE WOMAN OR YOUNG GIRLS  
HAVE ISSUES WITH CONFIDENCE.

1437  
01:55:53,810 --> 01:55:59,830  
THAT'S SOMETHING THAT YOUR  
BACKGROUND REALLY GAVE TO YOU

1438  
01:55:59,830 --> 01:56:03,800  
THAT HELPS YOU MOVE FORWARD.  
MY FIRST QUESTION IS WHAT IS

1439  
01:56:03,800 --> 01:56:07,909  
SOMETHING THAT YOU HELD OUT  
THERE WHO DOESN'T HAVE

1440  
01:56:07,909 --> 01:56:12,409  
CONFIDENCE TO HELP HER MOVE  
THROUGH THAT AND THEN THE SECOND

1441

01:56:12,409 --> 01:56:16,429  
ONE IS -- ARE YOU EVER TOO OLD  
TO DO THAT BECAUSE I'M A LITTLE

1442  
01:56:16,429 --> 01:56:30,719  
BIT OLDER -- AND I'M A TECHY  
GIRL.

1443  
01:56:30,719 --> 01:56:36,960  
THOSE ARE MY TWO QUESTIONS.  
>> I WANT TO ANSWER MY NUMBER

1444  
01:56:36,960 --> 01:56:41,010  
ONE.  
WHAT TO TELL GIRLS.

1445  
01:56:41,010 --> 01:56:47,610  
NO ONE KNOWS HOW TO DO LIFE.  
NO ONE KNOWS HOW TO PARENT.

1446  
01:56:47,610 --> 01:56:49,600  
NO ONE KNOWS HOW TO STUDY OR GO  
TO MARS.

1447  
01:56:49,600 --> 01:56:54,489  
WE KIND OF BUT NOT RAEPALLY.  
THE BIGGEST THING IS NO ONE

1448  
01:56:54,489 --> 01:56:58,010  
KNOWS HOW TO DO THIS THING  
CALLED LIFE.

1449  
01:56:58,010 --> 01:57:00,590  
FIGURE IT OUT AND NO ONE HAS  
THAOE ANSWERS.

1450  
01:57:00,590 --> 01:57:03,960  
THE THING IS NO ONE CAN TELL YOU  
DON'T KNOW HOW THE TO DO YOUR

1451

01:57:03,960 --> 01:57:05,770  
OWN LIFE.  
JUST DO YOUR HOMEWORK.

1452  
01:57:05,770 --> 01:57:17,480  
WOMAN DO THEIR HOMEWORK. 61  
WE STAY UP IN THE MIDDLE OF THE

1453  
01:57:17,480 --> 01:57:29,100  
NIGHT AND DO THAT THING BECAUSE  
WE WANT TO KNOW WHAT IT IS.

1454  
01:57:29,100 --> 01:57:34,990  
IT'S OKAY OH TO NOT KNOW AND ASK  
QUESTIONS.

1455  
01:57:34,990 --> 01:57:41,179  
IT'S OKAY TO BE WHO YOU ARE AND  
WE ARE GOING TO HELP YOU DO WHAT

1456  
01:57:41,179 --> 01:57:45,040  
YOU WANT TO DO AND HELP YOU  
FIGURE OUT THE RESORES TO DO

1457  
01:57:45,040 --> 01:57:49,560  
THAT THING.  
SOP THE PART ABOUT BEING TOO

1458  
01:57:49,560 --> 01:57:52,820  
OLD -- WE HAVE SEVERAL ANSWERS  
FOR THIS.

1459  
01:57:52,820 --> 01:57:59,670  
>> WHEN I FIRST STARTED COLLEGE,  
I HAD TO TAKE A BUNCH OF MATH

1460  
01:57:59,670 --> 01:58:01,330  
CLASSES OBVIOUSLY AS AN  
ENGINEER.

1461

01:58:01,330 --> 01:58:07,260  
THERE WAS THIS ONE GUY WHO SAT  
IN THE FRONT AND TOOK NOTES AND

1462  
01:58:07,260 --> 01:58:15,280  
HE ANSWERED ALL THE THE QUESTION  
RIGHT AND THAT MAN HAD TO BE THE

1463  
01:58:15,280 --> 01:58:21,440  
80 YEARS OLD.  
>> SHE WAS PROBABLY LIKE 40.

1464  
01:58:21,440 --> 01:58:25,440  
HE WAS OUT THERE.  
I DON'T KNOW IF HE WANTED A

1465  
01:58:25,440 --> 01:58:30,960  
CAREER CHANGE.  
YOU ARE NEVER TOO OLD TO LEARN.

1466  
01:58:30,960 --> 01:58:34,360  
ALTHOUGH 31 IS NOT THAT OLD FOR  
GRADUATING.

1467  
01:58:34,360 --> 01:58:38,949  
I FOUND OUT THAT GOING BACK  
LATER IN LIFE IT WASN'T ANYBODY

1468  
01:58:38,949 --> 01:58:45,030  
TELLING ME TO DO IT.  
IT WAS DECISION I MADE FOR

1469  
01:58:45,030 --> 01:58:49,850  
MYSELF.  
I WAS SO MUCH MORE MOTIVATED AND

1470  
01:58:49,850 --> 01:58:53,960  
I THINK THAT'S WHY I DID EVER  
THAN I COULD HAVE EVER IMAGINED

1471

01:58:53,960 --> 01:59:20,510  
BECAUSE IT WAS ALL FOR ME.  
>> I WANT TO ADDRESS THE

1472  
01:59:20,510 --> 01:59:25,139  
CONFIDENCE.  
>> THEY MADE SOME CRATERS IN

1473  
01:59:25,139 --> 01:59:29,510  
THAT CONFIDENCE.  
THEY TOOK CHUNKS OUT.

1474  
01:59:29,510 --> 01:59:36,659  
ON TOP OF THAT, THEY HAVE CURVE  
PALS AND OTHER THINGS.

1475  
01:59:36,659 --> 01:59:40,310  
THERE WERE TIMES WHERE I DIDN'T  
FEEL CONFIDENT.

1476  
01:59:40,310 --> 01:59:43,659  
I CAN TELL YOU THE RESOURCES  
THAT I FOUND USEFUL IN THAT TIME

1477  
01:59:43,659 --> 01:59:46,560  
AND THAT MIGHT BE SOMETHING THAT 62  
YOU WANT TO SHARE WITH GIRLS WHO

1478  
01:59:46,560 --> 02:00:01,820  
DON'T HAVE THE SAME EXPERIENCES.  
SPEND SOME TIME -- WE DON'T --

1479  
02:00:01,820 --> 02:00:07,010  
WHAT AM I NOT DOING.  
IF THERE NOTHING THERE TO PLEASE

1480  
02:00:07,010 --> 02:00:10,180  
YOU -- I WILL LOOK IN THE MIRROR  
MYSELF.

1481

02:00:10,180 --> 02:00:16,020  
IT IS SO WEIRD BUT THERE ARE  
TIMES WHERE YOU HAVE TO DO THAT.

1482  
02:00:16,020 --> 02:00:19,810  
I HAVE AN AMAZING HUSBAND WHO  
SUPPORTS ME.

1483  
02:00:19,810 --> 02:00:29,969  
EVEN WHEN THEY WERE SAYING THE  
RIGHT THINGS I IT WASN'T ENOUGH.

1484  
02:00:29,969 --> 02:00:36,310  
FINDING THINGS THAT MAKE YOU  
HAPPY.

1485  
02:00:36,310 --> 02:00:42,750  
FOCUS ON WHAT MAKES YOU HAPPY  
AND SUCCESS WILL FOLLOW THAT.

1486  
02:00:42,750 --> 02:00:47,640  
MAKING PEOPLE THAT IT'S OKAY TO  
BE YOU.

1487  
02:00:47,640 --> 02:00:51,330  
AND BEING HAPPY WITH YOURSELF.  
THAT IS THE FIRST STEP TO MAKE

1488  
02:00:51,330 --> 02:01:01,780  
PEOPLE JUST BE HAPPY AND THEN  
THE CONFIDENCE WILL COME.

1489  
02:01:01,780 --> 02:01:06,540  
>> AND HAVING PARENTS -- IF YOU  
DON'T HAVE PARENTS FIND SOME

1490  
02:01:06,540 --> 02:01:12,320  
MENTORS BUT HAVING THE PARENTS  
WHO DO TELL GIRLS YOU CAN BE WHO

1491

02:01:12,320 --> 02:01:16,350  
EVER YOU WANT TO BE AND SOCIETY  
WILL TELL THEM YOU CAN'T.

1492  
02:01:16,350 --> 02:01:21,380  
THAT'S THE TRUTH BUT BEING THE  
PARENTS IF YOU ARE A PARENT IF

1493  
02:01:21,380 --> 02:01:25,630  
YOU CAN JUST INSTILL IN YOUR  
KIDS NO MATTER WHAT YOU DO, WE

1494  
02:01:25,630 --> 02:01:38,139  
LOVE YOU.  
>> I THINK THOSE FOUNDATIONS.

1495  
02:01:38,139 --> 02:01:39,400  
IN THE AUDIENCE.  
EVERYONE OF OF YOU.

1496  
02:01:39,400 --> 02:01:43,520  
WE HEARD THAT YESTERDAY A LOT.  
MICHELLE OBAMA SAID KNOW

1497  
02:01:43,520 --> 02:01:47,590  
YOURSELF.  
IF YOU KNOW WHO YOU ARE -- YOU

1498  
02:01:47,590 --> 02:01:59,489  
ARE GOOD.  
>> I WANT TO SAY ON THE NOTE WAS

1499  
02:01:59,489 --> 02:02:03,469  
YOUNG GIRL'S AND CONFIDENCE.  
I THINK IT'S IMPORTANT TO LET

1500  
02:02:03,469 --> 02:02:07,260  
YOUNG GIRLS KNOW THAT WE WERE  
JUST KWROURPBG GIRLS AND IT'S

1501

02:02:07,260 --> 02:02:12,489  
NOT EASY FOR YOUNG GIRLS IN MY  
SITUATION.

1502  
02:02:12,489 --> 02:02:16,969  
I THINK THAT REMINDING THEM THAT 63  
YOU UNDERSTAND THAT FEELING AND

1503  
02:02:16,969 --> 02:02:21,639  
THAT YOU HAD TO GO THROUGH YOUR  
TEENAGE YEARS THAT WERE PAINFUL

1504  
02:02:21,639 --> 02:02:26,450  
AND CAN LOOK AT YOU AS THE EXAM  
AS SOMETHING THAT CAME UP ON THE

1505  
02:02:26,450 --> 02:02:30,230  
OTHER END THAT IS POSITIVE.  
THAT IS SOMETHING, TOO.

1506  
02:02:30,230 --> 02:02:32,820  
SO, I THINK WE HAVE MORE  
QUESTIONS.

1507  
02:02:32,820 --> 02:02:42,360  
WE WILL TAKE ONE LAST QUESTION  
IN THE FRONT ROW.

1508  
02:02:42,360 --> 02:02:48,370  
>> IT'S BEEN AMAZING AND SEEING  
ALL THE THE GREAT ON STAGE TO

1509  
02:02:48,370 --> 02:02:53,160  
KNOW WE ARE ROLLING AROUND IN  
SELF DEVELOPMENT.

1510  
02:02:53,160 --> 02:02:59,840  
MY QUESTION IS REGARDING WHAT  
YOU ARE FACING IN THE REAL WORLD

1511

02:02:59,840 --> 02:03:05,270  
NOW AND WHAT ADVICE YOU GIVE  
GIRLS AND WOMAN REGARDING THE

1512  
02:03:05,270 --> 02:03:15,460  
OBSTACLELESS YOU'RE FACING.  
WITH ALL THE NOISE AROUND THE

1513  
02:03:15,460 --> 02:03:22,580  
WORLD, HOW DO YOU STAY FOCUSED.  
>> WE GET BLASTED ABOUT E-MAILS

1514  
02:03:22,580 --> 02:03:31,699  
EVERY DAY ABOUT CONFERENCES AND  
TALKS AND OPPORTUNITIES.

1515  
02:03:31,699 --> 02:03:35,250  
IT'S GREAT TO HAVE THOSE  
OPPORTUNITIES BUT SOMETIMES IT

1516  
02:03:35,250 --> 02:03:39,660  
IS A LITTLE -- THIS LOOKS SO  
GUIDE WANT TO FOCUS ON THIS.

1517  
02:03:39,660 --> 02:03:44,980  
IT BECOMES HARD TO IDENTIFY  
WHERE SHOULD I CONCENTRATE ON.

1518  
02:03:44,980 --> 02:03:51,260  
I HAVE BEEN WORKING ON THIS.  
AS I GO BACK AND -- I HAVE

1519  
02:03:51,260 --> 02:03:54,490  
LITTLE BULLET POINTS OF  
INDIVIDUAL THINGS.

1520  
02:03:54,490 --> 02:04:00,170  
THERE'S NO MEAT ON THEM.  
WHAT I TRY TO DO IS HAVE TWO OR

1521

02:04:00,170 --> 02:04:03,630  
THREE IDEAS THAT I AM REALLY  
EXCITED ABOUT AND MAYBE LEAVE

1522  
02:04:03,630 --> 02:04:06,850  
ROOM FOR ONE MORE IF SOMETHING  
EXCITING COMES ALONG THE WAY.

1523  
02:04:06,850 --> 02:04:28,170  
I CAN DIVIDE MY TIME AND  
RESOURCES AND FOCUS ON THOSE.

1524  
02:04:28,170 --> 02:04:33,199  
>>> IT IS CHALLENGING BECAUSE IN  
MOMENTS OF LEADERSHIP WHEN I'M

1525  
02:04:33,199 --> 02:04:38,590  
IN THE MEETING EITHER CLOSING A  
DEAL OR FUND RAISING, VERY OFTEN

1526  
02:04:38,590 --> 02:04:44,409  
I'M THE ONLY FEMALE.  
NOT ONLY AM I A FEMALE I'M BLACK

1527  
02:04:44,409 --> 02:04:50,810  
AND A MILLENNIUM AND USUALLY THE 64  
OTHER PEOPLE ARE OLDER WHITE

1528  
02:04:50,810 --> 02:04:54,560  
MEN.  
I'M SURE THESE ARE CHALLENGES

1529  
02:04:54,560 --> 02:04:59,409  
THAT WE HAVE ALL FACED  
ESPECIALLY AS WE'RE IN THE

1530  
02:04:59,409 --> 02:05:04,239  
TECHNOLOGY SPACE.  
THIS RELATES TO THE QUESTION

1531

02:05:04,239 --> 02:05:11,389  
ABOUT CONFIDENCE.  
WHEN YOU ARE THE ONLY FEMALE IN

1532  
02:05:11,389 --> 02:05:17,810  
THE ROOM.  
YOU MIGHT SEE THAT AS A SETBACK

1533  
02:05:17,810 --> 02:05:22,030  
BUT VERY IMPORTANT TO SEE  
WHATEVER UNIQUE UNIQUE QUALITIES

1534  
02:05:22,030 --> 02:05:27,949  
YOU AS A PERSONAL ASSET.  
SO ANY TIME THAT I'M IN A ROOM

1535  
02:05:27,949 --> 02:05:31,610  
FULL OF A BUNCH OF WHITE MEN.  
I AM THE EBG PERT ON

1536  
02:05:31,610 --> 02:05:36,030  
MILLENNIALS.  
AIM THE EXPERT ON FEMALES AND ON

1537  
02:05:36,030 --> 02:05:47,310  
PEOPLE OF COLOR.  
SO I'M GUESSING THE GLASS HALF

1538  
02:05:47,310 --> 02:05:53,710  
FULL AND ALWAYS POSITIONS  
YOURSELF TO BE THE PERSON WITH

1539  
02:05:53,710 --> 02:05:58,790  
THE ANSWERS AND BE THE VALUE ADD  
SO PEOPLE ARE COMING TO YOU FOR

1540  
02:05:58,790 --> 02:06:40,560  
ANSWERS.  
WE HAVE SO MUCH TIME IN YOUR

1541

02:06:40,560 --> 02:06:46,159  
LIFE TO DO THE THINGS THAT YOU  
WANT TO DO WITH YOUR LIFE.

1542  
02:06:46,159 --> 02:06:51,659  
IF I CAN LEAVE YOU WITH THAT ONE  
POWERFUL WORD WE SHOULD JUST

1543  
02:06:51,659 --> 02:06:59,429  
PRACTICE IT.  
CAN YOU STAY WORD?

1544  
02:06:59,429 --> 02:07:03,449  
NO.  
THANK YOU FOR JOINING ME AND ONE

1545  
02:07:03,449 --> 02:07:08,239  
MORE ROUND OF APPLAUSE FOR OUR  
SPEAKERS.

1546  
02:07:08,239 --> 02:07:19,030  
>> IS IT POSSIBLE TO ADD  
SOMETHING FOR PEOPLE THINKING OF

1547  
02:07:19,030 --> 02:08:02,650  
CHANGING THEIR CAREERS.  
>> THANK YOU EVERYONE.

1548  
02:08:02,650 --> 02:08:06,659  
THIS IS WONDERFUL.  
IT'S GREAT FOR ME TO HAVE ALL OF

1549  
02:08:06,659 --> 02:08:09,739  
US UP HERE TOGETHER.  
THESE WHAT IT'S ABOUT.

1550  
02:08:09,739 --> 02:08:13,540  
THANK YOU FOR JOINING US TODAY.  
I STARTED SEEING ONE OF MY

1551

02:08:13,540 --> 02:08:18,869  
HEROES ELEANOR ROOSEVELT WHO  
SAID THE FUTURE BELONGS TO THE

1552  
02:08:18,869 --> 02:08:35,010  
BEAUTY OF  
YOUR DREAMS. 65

1553  
02:08:35,010 --> 02:08:37,760  
ALWAYS BELIEVE IN YOUR DREAMS.  
JUST TURN THEM IN TO REALITY.

1554  
02:08:37,760 --> 02:08:42,160  
ONE OF THE SPECIAL THINGS ABOUT  
NASA IN THE FOOTSTEPS OF OUR

1555  
02:08:42,160 --> 02:08:45,280  
WOMAN PIONEERS THAT WE ARE  
WATCHING EVERY DAY.

1556  
02:08:45,280 --> 02:08:59,030  
AMONG THE FOOTSTEPS I AM PROUD  
TO WELCOME IN.

1557  
02:08:59,030 --> 02:09:04,550  
THAT'S OUR FIRST WOMAN ASTRONAUT  
GROUP.

1558  
02:09:04,550 --> 02:09:17,070  
YOU MIGHT NOT KNOW.  
IT'S NOT

1559  
02:09:17,070 --> 02:09:19,400  
ABOUT BEING FIRST.  
WHEN WE STOP COUNTING NUMBERS WE

1560  
02:09:19,400 --> 02:09:31,170  
WILL KNOW WE HAVE ARRIVED WHEN  
WHEN WE DON'T HAVE TO COUNT.

1561

02:09:31,170 --> 02:09:34,020

THANK YOU.

I KNOW THAT SALLY AND JUDY ARE

1562

02:09:34,020 --> 02:09:37,860

LOOKING DOWN AT US SAYING WHAT  
AN AWESOME GROUP GATHERED HERE

1563

02:09:37,860 --> 02:09:42,770

AT NASA.

THEY ARE ALL INSPIRING AND

1564

02:09:42,770 --> 02:09:47,469

GIVING THEIR LIFE FOR US AND  
MANY OTHERS TO INSPIRE US U.

1565

02:09:47,469 --> 02:09:52,850

THAT'S WHAT THEY WANT US TO DO  
IS OVERCOME ALL THE CHALLENGES

1566

02:09:52,850 --> 02:09:57,219

AND OVERCOME THOSE OBSTACLESS.  
YOU GET BACK UP AND IT SURE

1567

02:09:57,219 --> 02:10:00,210

HELPS IF YOU HAVE A FRIEND  
PATTING YOU ON THE BACK AND

1568

02:10:00,210 --> 02:10:02,920

SAYING YOU ARE GREAT.  
HELPING YOU GET BACK UP JUST TO

1569

02:10:02,920 --> 02:10:07,679

GO TO THE NEXT STEP.  
I THINK WERE ALL HERE TODAY.

1570

02:10:07,679 --> 02:10:09,760

WE HAVE A SPECIAL  
RESPONSIBILITY.

1571

02:10:09,760 --> 02:10:12,639

I KNOW I DO.

THE RESPONSIBILITY TO INSPIRE,

1572

02:10:12,639 --> 02:10:17,489

TO ENCOURAGE AND MENTOR IT'S ALL  
ABOUT THE NEXT GENERATION OF

1573

02:10:17,489 --> 02:10:20,250

GIRLS AND WOMAN WHICH I CALL OUR  
NEXT GENERATION.

1574

02:10:20,250 --> 02:10:22,639

WE ARE HERE.

THAT'S WHY DO I WHAT I DO EVERY

1575

02:10:22,639 --> 02:10:25,330

DAY.

NOT FOR ME BUT FOR THE NEXT

1576

02:10:25,330 --> 02:10:31,429

GENERATION.

LUCKY FOR US, WE ARE LOOKING FOR

1577

02:10:31,429 --> 02:10:34,170

NEW HEIGHTS AND THINK ABOUT OUT  
OF THIS WORLD.

1578

02:10:34,170 --> 02:10:38,969

WE HAVE SPACE EXPLORATION AND 66  
CLEANING ENERGY AND WATER.

1579

02:10:38,969 --> 02:10:44,320

IT'S WHAT WE NEED TO CHANGE THIS  
CONVERSATION AND MAKE DIVERSITY

1580

02:10:44,320 --> 02:10:51,850

AND EBG LENS OBTAIN TK-RBG  
EXCELLENCE AND OBTAIN THE GOAL.

1581

02:10:51,850 --> 02:10:56,560  
IT'S ALL OF US AND A SHOUT OUT  
TO ALL THE THE MEN WHO JOINED US

1582  
02:10:56,560 --> 02:10:58,869  
TODAY, TOO.  
THANK YOU BECAUSE YOU EMPOWER

1583  
02:10:58,869 --> 02:11:01,039  
US.  
[ APPLAUSE ]

1584  
02:11:01,039 --> 02:11:07,360  
>> KEEP IN MIND, WE DON'T WANT  
TO SAY GOOD-BYE TO YOU YET.

1585  
02:11:07,360 --> 02:11:11,969  
WE HAVE AN E-MAIL THAT WE HOPE  
THAT YOU WILL JOIN US TO COME UP

1586  
02:11:11,969 --> 02:11:16,600  
TO THE HILLS TO CONGRESS.  
YOU'RE INVITED TO OUR SCIENCE ON

1587  
02:11:16,600 --> 02:11:19,600  
THE HILL.  
A GROUP OF US WILL WALK UP

1588  
02:11:19,600 --> 02:11:27,080  
THEREAFTER.  
WE GET TO TALK ABOUT BIG DATA

1589  
02:11:27,080 --> 02:11:31,560  
AND IMMERSE YOURSELF FROM EARTH  
AGAIN TO CLIMATE TO JUPITER TO

1590  
02:11:31,560 --> 02:11:34,949  
MARS AND BEYOND AND LIGHT OUR  
SCIENCE ON THE HILL.

1591

02:11:34,949 --> 02:11:39,090  
THAT IS GOING TO BE WHENEVER WE  
GET UP THERE 3:30-7:00.

1592  
02:11:39,090 --> 02:11:43,520  
THERE'S FOOD AND DRINKS FROM  
5:00-7:00 IN CASE YOU'RE

1593  
02:11:43,520 --> 02:11:53,370  
THINKING ABOUT IT.  
WE HOPE THAT YOU'LL BE PART OF

1594  
02:11:53,370 --> 02:11:57,840  
OUR EFFORT TO INSPIRE MORE YOUNG  
WOMAN TO REACH FOR NEW HEIGHTS.

1595  
02:11:57,840 --> 02:12:04,280  
WHETHER THIS MEANS PURSUING A  
CAREER IN ART OR DESIGN OR JUST

1596  
02:12:04,280 --> 02:12:08,280  
HAVING THE COURAGE THAT WE JUST  
TALKED ABOUT AND THE ANSWERS BUT

1597  
02:12:08,280 --> 02:12:12,500  
THE OPPORTUNITY TO TAKE THOSE AP  
COMPUTER SCIENCE TESTS, TO FILL

1598  
02:12:12,500 --> 02:12:18,080  
OUT THAT COLLEGE APPLICATION OR  
APPLY FOR OUR ASTRONAUT CARE.

1599  
02:12:18,080 --> 02:12:20,949  
START THAT SMALL BUSINESS.  
YOU HAVE GREAT EXAMPLES WITH US

1600  
02:12:20,949 --> 02:12:24,510  
HERE TODAY TO GO THOUSAND THAT  
PROMOTION.

1601

02:12:24,510 --> 02:12:26,570  
WE REALLY NEED THAT  
ENCOURAGEMENT AND NEED THAT

1602  
02:12:26,570 --> 02:12:28,710  
MENTORING.  
FOR THE MARS GENERATION I WANT

1603  
02:12:28,710 --> 02:12:37,460  
TO INVITE YOU OUT TO CHECK OUT 67  
OUR RESOURCES AT [INTERN.NASA.GOV](http://INTERN.NASA.GOV).

1604  
02:12:37,460 --> 02:12:39,920  
PLEASE CHECK THAT OUT FOR THE  
NOT-SO-YOUNG FOLKS IN THE

1605  
02:12:39,920 --> 02:12:52,150  
AUDIENCE.  
LET'S SEE WHAT YOU'RE DOING.

1606  
02:12:52,150 --> 02:13:02,060  
WE KNOW WE CAN LEVERAGE AND  
REACH MORE SYNERGYS.

1607  
02:13:02,060 --> 02:13:05,900  
SO THEN JOIN US AT  
[WOMAN.NASA.GOV](http://WOMAN.NASA.GOV) JUST TO LEARN MORE

1608  
02:13:05,900 --> 02:13:09,790  
ABOUT THE GREAT RESOURCES WE HAVE.  
MORE STORIES AND INCREDIBLE

1609  
02:13:09,790 --> 02:13:11,710  
WOMAN.  
THAT'S OUR FIRST.

1610  
02:13:11,710 --> 02:13:22,770  
. SECOND IS WE WANT YOU TO PART  
OF OUR JOURNEY TO MARS.

1611

02:13:22,770 --> 02:13:27,719  
OUR PLAN IS TO SEND TO THE RED  
PLANET AND TO DO SO WE NEED

1612  
02:13:27,719 --> 02:13:43,980  
EVERYONE OF YOU.  
>> WE NEED THE PHYSICAL

1613  
02:13:43,980 --> 02:13:55,239  
THARAPIST. ELIZABETH IS HERE AND  
THE REASON I -- HERE SHE IS.

1614  
02:13:55,239 --> 02:13:57,750  
WE ALL NEED HEROESS.  
WE ALL NEED MENTORS.

1615  
02:13:57,750 --> 02:14:01,300  
YOU CAN NEVER STOP REACHING FOR  
THAT NEXT MENTOR.

1616  
02:14:01,300 --> 02:14:04,880  
I WAS ASSIGNED A MENTOR.  
YOU MIGHT IMAGINE HOW WELL THAT

1617  
02:14:04,880 --> 02:14:08,150  
WENT.  
>> GOOD TRY.

1618  
02:14:08,150 --> 02:14:13,300  
I WAS ONE OF 35 WOMAN.  
SO SEEK OUT THOSE MENTORS.

1619  
02:14:13,300 --> 02:14:17,200  
JUST SEE WHO THEY CAN TALK TO.  
SEE WHO THEY CAN RELATE TO.

1620  
02:14:17,200 --> 02:14:21,580  
>> PEOPLE DON'T SAY NO.  
>> YOU HAVE TO SOMETIMES BE

1621

02:14:21,580 --> 02:14:25,310  
PROACTIVE WHEN YOU ARE LOOKING  
FOR THOSE MENTORS AND WHO YOU

1622  
02:14:25,310 --> 02:14:28,660  
INSPIRE TO LEARN ABOUT THOSE  
STORIES.

1623  
02:14:28,660 --> 02:14:32,980  
THEM BACK TO MARS. .  
THE FIRST STEP OF BEING IN MARS

1624  
02:14:32,980 --> 02:14:36,730  
IS BELIEVING IN OURSELVES.  
I'M SO HOPEFUL.

1625  
02:14:36,730 --> 02:14:39,820  
THIS IS SOMETHING THAT NASA WILL  
LEAD PAOEUPT.

1626  
02:14:39,820 --> 02:14:43,800  
IT IS NOT ONE NEIGH AN TKEURBT  
AO NOT JUST ONE NATION AND ONE

1627  
02:14:43,800 --> 02:14:52,960  
COUNTRY IT'S GLOBAL.  
WE WILL HAVE NO LIMITS ON OUR

1628  
02:14:52,960 --> 02:15:16,210  
CURIOSITY. 68  
WE CAN ELIMINATE THEM BY NEW

1629  
02:15:16,210 --> 02:15:34,200  
THINKING.  
LET'S GIVE OURSELF GOALS. .

1630  
02:15:34,200 --> 02:15:49,820  
50% WITHIN A DECADE.  
YOU CAN SEND A MAN TO THE MOON.

1631

02:15:49,820 --> 02:15:55,780  
THESE OBSTACLES ARE ABSOLUTE.  
I CAN TELL YOU THAT PRESIDENT

1632  
02:15:55,780 --> 02:15:58,850  
OBAMA AND THE FIRST LADY ARE  
DOING EVERYTHING THEY CAN THAT'

1633  
02:15:58,850 --> 02:16:02,750  
WHY WE'RE ALL GATHERED HERE  
TODAY IS FOR EMPOWERMENT.

1634  
02:16:02,750 --> 02:16:08,179  
WE CAN REALLY LOOKING FORWARD IN  
AN AMERICAN SOCIETY FOR ALL.

1635  
02:16:08,179 --> 02:16:13,280  
SO, THANK YOU FOR JOINING US AND  
HONORED TO BE SERVED AND BE AT

1636  
02:16:13,280 --> 02:16:16,949  
NASA.  
HE LIKES TO TELL YOUNG PEOPLE

1637  
02:16:16,949 --> 02:16:24,060  
AND NEVER LISTENS TO ANYONE WHO  
SAY YOU DON'T BELONG.

1638  
02:16:24,060 --> 02:16:34,609  
THAT'S GREAT ADVICE.  
YOU DON'T LOOK LIKE THAT.

1639  
02:16:34,609 --> 02:16:46,120  
THAT'S LOVE, DISCOVER AND  
INNOVATE. I HAVE HAD THAT FAR

1640  
02:16:46,120 --> 02:16:49,019  
LONG TIME.  
DON'T BE TOO COME KPHRAEUTED

1641

02:16:49,019 --> 02:16:58,689  
ABOUT THING -- DON'T BE TOO  
COMPLICATED ABOUT THINGS.

1642  
02:16:58,689 --> 02:17:02,889  
FOLLOW YOUR PASSION AND WE WILL  
ALL BE VERY SUCCESSFUL.

1643  
02:17:02,889 --> 02:17:07,190  
THANK YOU FOR JOINING US AND  
BEING PART OF THE UNITED STATE

1644  
02:17:07,190 --> 02:17:10,030  
OF WOMAN.  
WE WILL LEAVE YOU WITH THE GREAT

1645  
02:17:10,030 --> 02:17:13,740  
WORDS.  
DON'T GIVE UP TRYING WHAT YOU

1646  
02:17:13,740 --> 02:17:16,410  
REALLY WANT TO DO.  
WHEN THERE'S LOVE AND

1647  
02:17:16,410 --> 02:17:20,580  
INSPIRATION I DON'T THINK YOU  
CAN GO WRONG AND I THINK SHE WAS

1648  
02:17:20,580 --> 02:17:22,510  
RIGHT.  
I HOPE YOU CAN JOIN US IN GIVING

1649  
02:17:22,510 --> 02:17:25,649  
YOURSELF A BIG ROUND OF APPLAUSE  
FOR JOINING US.

1650  
02:17:25,649 --> 02:17:35,969  
THANKS TO ALL THE ORGANIZATIONS  
AND YOU INSPIRE ALL THE WOMAN AT