



**Joe Acaba**  
Expedition 53 Flight Engineer

1  
00:00:05,670 --> 00:00:03,189  
i'm ellen ochoa director of nasa's

2  
00:00:07,430 --> 00:00:05,680  
johnson space center i'd like to welcome

3  
00:00:09,910 --> 00:00:07,440  
you to today's event

4  
00:00:12,549 --> 00:00:09,920  
each year nasa joins the nation in

5  
00:00:14,629 --> 00:00:12,559  
observing hispanic heritage month

6  
00:00:16,310 --> 00:00:14,639  
hispanics have shaped and strengthened

7  
00:00:18,790 --> 00:00:16,320  
the fabric of this country through

8  
00:00:22,230 --> 00:00:18,800  
contributions and accomplishments that

9  
00:00:25,029 --> 00:00:22,240  
span every facet of american society

10  
00:00:27,509 --> 00:00:25,039  
here at nasa we welcome and rely on the

11  
00:00:30,710 --> 00:00:27,519  
diverse backgrounds perspectives and

12  
00:00:33,030 --> 00:00:30,720  
ideas of all of our talented workforce

13  
00:00:35,030 --> 00:00:33,040

and i'm personally so grateful that i've

14

00:00:37,430 --> 00:00:35,040

had the opportunity to be a valued

15

00:00:40,709 --> 00:00:37,440

member of the nasa team for almost 30

16

00:00:42,709 --> 00:00:40,719

years sharing in our joint achievements

17

00:00:45,350 --> 00:00:42,719

the hispanic outreach and leadership

18

00:00:48,069 --> 00:00:45,360

alliance team has assembled a stellar

19

00:00:49,910 --> 00:00:48,079

lineup of talent from across the nation

20

00:00:52,630 --> 00:00:49,920

today's speakers will discuss the

21

00:00:55,750 --> 00:00:52,640

importance of hispanic representation in

22

00:00:58,630 --> 00:00:55,760

stem education and careers and highlight

23

00:01:00,549 --> 00:00:58,640

successes and challenges these are

24

00:01:02,630 --> 00:01:00,559

important topics because our future

25

00:01:04,950 --> 00:01:02,640

success depends on our ability to

26

00:01:07,750 --> 00:01:04,960

continue to attract the best and

27

00:01:09,510 --> 00:01:07,760

brightest and then develop our workforce

28

00:01:16,120 --> 00:01:09,520

and future leaders

29

00:01:16,130 --> 00:01:20,230

[Applause]

30

00:01:24,870 --> 00:01:22,710

good morning buenos dias

31

00:01:26,469 --> 00:01:24,880

thank you so much for being here at nasa

32

00:01:29,350 --> 00:01:26,479

headquarters welcome and to those

33

00:01:31,190 --> 00:01:29,360

watching online thank you for joining us

34

00:01:33,749 --> 00:01:31,200

today we will celebrate

35

00:01:35,749 --> 00:01:33,759

hispanic heritage month here at nasa we

36

00:01:38,390 --> 00:01:35,759

take a moment to acknowledge the rich

37

00:01:40,069 --> 00:01:38,400

history beauty diversity

38

00:01:42,710 --> 00:01:40,079

contributions and accomplishments of the

39

00:01:44,710 --> 00:01:42,720

hispanic community across the nation

40

00:01:46,950 --> 00:01:44,720

so i'm so thrilled to have you here

41

00:01:49,910 --> 00:01:46,960

today this is the second year we have

42

00:01:51,510 --> 00:01:49,920

planned activities for nasa headquarters

43

00:01:53,030 --> 00:01:51,520

my name is maria santos and i'm the

44

00:01:55,270 --> 00:01:53,040

chair of the hispanic outreach and

45

00:01:57,670 --> 00:01:55,280

leadership alliance group here also

46

00:02:00,069 --> 00:01:57,680

known as hola

47

00:02:02,550 --> 00:02:00,079

ola's mission is basically to foster

48

00:02:04,709 --> 00:02:02,560

awareness and promote the contributions

49

00:02:06,709 --> 00:02:04,719

of the hispanic community here at nasa

50

00:02:08,949 --> 00:02:06,719

to create and facilitate collaborative

51  
00:02:09,990 --> 00:02:08,959  
cross-cultural opportunities and to

52  
00:02:11,910 --> 00:02:10,000  
encourage the recruitment and

53  
00:02:15,430 --> 00:02:11,920  
professional development of a highly

54  
00:02:17,750 --> 00:02:15,440  
skilled and diverse workforce

55  
00:02:19,750 --> 00:02:17,760  
so i was thinking

56  
00:02:21,430 --> 00:02:19,760  
you know this takes a few months to plan

57  
00:02:23,589 --> 00:02:21,440  
an activity like this

58  
00:02:26,070 --> 00:02:23,599  
and i kept thinking about what we wanted

59  
00:02:28,630 --> 00:02:26,080  
to focus on this year

60  
00:02:30,309 --> 00:02:28,640  
and my team and i were debating

61  
00:02:32,710 --> 00:02:30,319  
what the focus should be

62  
00:02:35,750 --> 00:02:32,720  
but then one day it just

63  
00:02:36,470 --> 00:02:35,760

hit me after reading an article about

64

00:02:38,550 --> 00:02:36,480

the

65

00:02:40,869 --> 00:02:38,560

us population

66

00:02:42,470 --> 00:02:40,879

the u.s labor workforce and the

67

00:02:47,030 --> 00:02:42,480

education system

68

00:02:51,030 --> 00:02:47,040

in this country and then it hit me that

69

00:02:53,910 --> 00:02:51,040

latinos stem up it's time

70

00:02:56,150 --> 00:02:53,920

it's time to stem up not only

71

00:02:58,949 --> 00:02:56,160

because it's a necessity but it's a

72

00:03:02,149 --> 00:02:58,959

social obligation not only for

73

00:03:06,790 --> 00:03:02,159

hispanics um in the country but also

74

00:03:08,309 --> 00:03:06,800

across the board professionals educators

75

00:03:09,910 --> 00:03:08,319

people in the public

76

00:03:11,830 --> 00:03:09,920

private sectors

77

00:03:13,830 --> 00:03:11,840

it's important because

78

00:03:17,270 --> 00:03:13,840

hispanics comprised almost 18 percent of

79

00:03:19,910 --> 00:03:17,280

the us population and growing

80

00:03:20,710 --> 00:03:19,920

nowadays about 25

81

00:03:21,910 --> 00:03:20,720

of

82

00:03:23,509 --> 00:03:21,920

students in

83

00:03:25,990 --> 00:03:23,519

um

84

00:03:27,430 --> 00:03:26,000

k-12 schools

85

00:03:30,070 --> 00:03:27,440

are hispanics

86

00:03:32,710 --> 00:03:30,080

so that got me thinking okay

87

00:03:34,550 --> 00:03:32,720

so it's a growing population and then i

88

00:03:37,350 --> 00:03:34,560

looked into it to more and it's a very

89

00:03:39,509 --> 00:03:37,360

young population it's actually two to

90

00:03:40,789 --> 00:03:39,519

three years younger than the average of

91

00:03:42,949 --> 00:03:40,799

uh

92

00:03:45,030 --> 00:03:42,959

non-hispanic american

93

00:03:49,190 --> 00:03:45,040

so what does this mean this basically

94

00:03:51,350 --> 00:03:49,200

means that hispanics will be

95

00:03:53,589 --> 00:03:51,360

have been and will continue to be a

96

00:03:55,589 --> 00:03:53,599

great contributor to this country's

97

00:03:58,789 --> 00:03:55,599

economic

98

00:04:00,630 --> 00:03:58,799

political educational systems right so

99

00:04:02,229 --> 00:04:00,640

what are we doing

100

00:04:03,509 --> 00:04:02,239

to not only

101  
00:04:06,309 --> 00:04:03,519  
um

102  
00:04:08,710 --> 00:04:06,319  
encourage hispanics to go into stem

103  
00:04:11,030 --> 00:04:08,720  
fields because science technology

104  
00:04:13,110 --> 00:04:11,040  
engineering and mathematics is important

105  
00:04:14,390 --> 00:04:13,120  
especially for us here at nasa stem is

106  
00:04:15,350 --> 00:04:14,400  
what we do

107  
00:04:17,909 --> 00:04:15,360  
so

108  
00:04:20,629 --> 00:04:17,919  
how do we prepare these students to go

109  
00:04:22,390 --> 00:04:20,639  
into stem how do we prepare

110  
00:04:25,189 --> 00:04:22,400  
individuals to

111  
00:04:27,830 --> 00:04:25,199  
grow within those stem careers as well

112  
00:04:30,310 --> 00:04:27,840  
so today i'm very excited because we

113  
00:04:33,110 --> 00:04:30,320

have an amazing panel

114

00:04:35,749 --> 00:04:33,120

from across nasa so this is an

115

00:04:38,230 --> 00:04:35,759

agency-wide initiative here and we also

116

00:04:40,390 --> 00:04:38,240

are so thrilled to have

117

00:04:43,110 --> 00:04:40,400

our national professionals here

118

00:04:45,350 --> 00:04:43,120

recognized in their fields in their stem

119

00:04:47,670 --> 00:04:45,360

fields across the country

120

00:04:50,070 --> 00:04:47,680

so i think you're in for a really good

121

00:04:52,310 --> 00:04:50,080

good uh panel discussion here i hope you

122

00:04:53,749 --> 00:04:52,320

enjoy it um but i did want to share a

123

00:04:56,950 --> 00:04:53,759

little bit about myself so that you

124

00:04:58,550 --> 00:04:56,960

understand where i'm coming from

125

00:05:00,550 --> 00:04:58,560

and this is just between us i haven't

126

00:05:02,950 --> 00:05:00,560

really told many people this right

127

00:05:05,189 --> 00:05:02,960

so i

128

00:05:08,950 --> 00:05:05,199

i'm actually an immigrant so my family

129

00:05:11,670 --> 00:05:08,960

moved to the states in the 1980s

130

00:05:12,870 --> 00:05:11,680

during the civil wars in el salvador uh

131

00:05:14,950 --> 00:05:12,880

so for me

132

00:05:17,189 --> 00:05:14,960

hearing bombs going off in the distance

133

00:05:20,469 --> 00:05:17,199

and watching people walk around with you

134

00:05:22,629 --> 00:05:20,479

know uh rifles was common occurrence so

135

00:05:23,670 --> 00:05:22,639

uh we left when i was about six years

136

00:05:25,590 --> 00:05:23,680

old

137

00:05:28,150 --> 00:05:25,600

i'm the youngest of eight

138

00:05:29,590 --> 00:05:28,160

first to go to college

139

00:05:32,310 --> 00:05:29,600

actually second to go to college because

140

00:05:34,390 --> 00:05:32,320

i have a sister who went to a community

141

00:05:36,550 --> 00:05:34,400

college so she actually paved the way

142

00:05:37,749 --> 00:05:36,560

but i say all that to say that when we

143

00:05:39,749 --> 00:05:37,759

moved here

144

00:05:42,230 --> 00:05:39,759

we did not know the language we did not

145

00:05:44,150 --> 00:05:42,240

know anyone in this country we ended up

146

00:05:45,189 --> 00:05:44,160

in a tiny little place called parish

147

00:05:51,830 --> 00:05:45,199

florida

148

00:05:53,510 --> 00:05:51,840

i didn't know anyone that looked like me

149

00:05:55,350 --> 00:05:53,520

that went to college or held a

150

00:05:57,749 --> 00:05:55,360

professional career and it wasn't

151

00:06:00,550 --> 00:05:57,759

because i actually had

152

00:06:02,230 --> 00:06:00,560

a couple guidance counselors and a lady

153

00:06:04,790 --> 00:06:02,240

from the school board who actually

154

00:06:07,830 --> 00:06:04,800

believed in me and got me into the upper

155

00:06:10,309 --> 00:06:07,840

bound program and

156

00:06:12,469 --> 00:06:10,319

which changed my life and so

157

00:06:14,629 --> 00:06:12,479

i was then afforded the opportunity to

158

00:06:17,029 --> 00:06:14,639

apply and got accepted to

159

00:06:19,670 --> 00:06:17,039

different colleges and universities well

160

00:06:21,430 --> 00:06:19,680

then the real hurdle came which was

161

00:06:22,870 --> 00:06:21,440

having to tell my mother that her

162

00:06:23,909 --> 00:06:22,880

youngest child

163

00:06:26,390 --> 00:06:23,919

female

164

00:06:27,590 --> 00:06:26,400

was going to leave home right four hours

165

00:06:28,950 --> 00:06:27,600

away

166

00:06:31,029 --> 00:06:28,960

uh

167

00:06:34,070 --> 00:06:31,039

it was unheard of and of course she said

168

00:06:36,230 --> 00:06:34,080

no because it's you know she's she

169

00:06:38,309 --> 00:06:36,240

didn't understand the importance of

170

00:06:39,110 --> 00:06:38,319

having me go off and go to college so

171

00:06:41,430 --> 00:06:39,120

she

172

00:06:43,029 --> 00:06:41,440

actually was hearing from my teachers my

173

00:06:44,790 --> 00:06:43,039

guidance counselors anybody and

174

00:06:47,350 --> 00:06:44,800

everybody who could speak to her

175

00:06:50,150 --> 00:06:47,360

to try to encourage her to let me go

176  
00:06:51,909 --> 00:06:50,160  
basically and my mother said no if she

177  
00:06:54,150 --> 00:06:51,919  
wants to study she can go down the

178  
00:06:57,430 --> 00:06:54,160  
street to the community college

179  
00:07:00,390 --> 00:06:57,440  
but um i got full ride you know full

180  
00:07:02,629 --> 00:07:00,400  
scholarships and so they felt my my

181  
00:07:05,990 --> 00:07:02,639  
counselors felt that it would be a waste

182  
00:07:06,950 --> 00:07:06,000  
for me to let that just go eventually my

183  
00:07:09,270 --> 00:07:06,960  
sister

184  
00:07:11,589 --> 00:07:09,280  
my hero put her foot down and she said

185  
00:07:13,909 --> 00:07:11,599  
no she's going she actually packed my

186  
00:07:16,309 --> 00:07:13,919  
stuff in her little car and drove me off

187  
00:07:18,790 --> 00:07:16,319  
to college my mother would not go to

188  
00:07:20,710 --> 00:07:18,800

drop me off to college

189

00:07:23,430 --> 00:07:20,720

so i ended up you know graduating and

190

00:07:25,909 --> 00:07:23,440

this and that and i started my federal

191

00:07:28,390 --> 00:07:25,919

career about 10 years ago

192

00:07:30,870 --> 00:07:28,400

and my background is in human resources

193

00:07:33,749 --> 00:07:30,880

so i had access to data and i was just

194

00:07:36,950 --> 00:07:33,759

surprised at the fact that

195

00:07:38,390 --> 00:07:36,960

we had this population that kept growing

196

00:07:39,909 --> 00:07:38,400

you know the research was there the

197

00:07:42,309 --> 00:07:39,919

stats were there

198

00:07:45,589 --> 00:07:42,319

but yet it wasn't representative across

199

00:07:47,670 --> 00:07:45,599

federal government and so i got involved

200

00:07:50,869 --> 00:07:47,680

with employee resource groups trying to

201  
00:07:52,950 --> 00:07:50,879  
bring this forward and trying to

202  
00:07:54,710 --> 00:07:52,960  
show listen the research is there the

203  
00:07:57,670 --> 00:07:54,720  
stats are there there's something that

204  
00:08:00,950 --> 00:07:57,680  
we have to do to prepare right we need

205  
00:08:03,189 --> 00:08:00,960  
to look forward and prepare the the next

206  
00:08:04,230 --> 00:08:03,199  
or the future workforce

207  
00:08:06,710 --> 00:08:04,240  
so

208  
00:08:09,510 --> 00:08:06,720  
needless to say nowadays my mother is

209  
00:08:10,309 --> 00:08:09,520  
the biggest advocate for education there

210  
00:08:12,950 --> 00:08:10,319  
is

211  
00:08:14,710 --> 00:08:12,960  
anybody and everybody she meets she

212  
00:08:16,629 --> 00:08:14,720  
introduces me as this is my daughter

213  
00:08:19,270 --> 00:08:16,639

maria she works at nasa

214

00:08:21,029 --> 00:08:19,280

right and then she talks to every kid

215

00:08:22,869 --> 00:08:21,039

that she meets every young person that

216

00:08:25,430 --> 00:08:22,879

she meets and encourages them to get

217

00:08:27,350 --> 00:08:25,440

that education and so

218

00:08:29,909 --> 00:08:27,360

you know that's just

219

00:08:32,709 --> 00:08:29,919

one story my story is not unique i'm

220

00:08:34,469 --> 00:08:32,719

sure a lot of us share that story and i

221

00:08:36,310 --> 00:08:34,479

wanted to share it today because like i

222

00:08:38,469 --> 00:08:36,320

said it's not unique it's pretty common

223

00:08:40,949 --> 00:08:38,479

within the hispanic community

224

00:08:44,870 --> 00:08:40,959

which is why we have to keep

225

00:08:47,269 --> 00:08:44,880

pushing for education pushing for the

226

00:08:48,710 --> 00:08:47,279

importance of going into stem fields

227

00:08:51,350 --> 00:08:48,720

pushing for

228

00:08:53,590 --> 00:08:51,360

um just preparation in general

229

00:08:55,350 --> 00:08:53,600

not only within the hispanic community

230

00:08:57,590 --> 00:08:55,360

but across federal government across

231

00:08:58,949 --> 00:08:57,600

this nation

232

00:09:02,949 --> 00:08:58,959

now

233

00:09:04,470 --> 00:09:02,959

i'm so excited to have actually mr elvis

234

00:09:06,550 --> 00:09:04,480

cordova

235

00:09:08,310 --> 00:09:06,560

moderate this pound of discussion for me

236

00:09:09,990 --> 00:09:08,320

today i actually know elvis on a

237

00:09:11,509 --> 00:09:10,000

personal level he's one of the first

238

00:09:13,670 --> 00:09:11,519

people that i met when i first moved to

239

00:09:16,070 --> 00:09:13,680

dc you know i moved to dc not knowing

240

00:09:17,350 --> 00:09:16,080

anyone and

241

00:09:19,829 --> 00:09:17,360

i was just

242

00:09:21,910 --> 00:09:19,839

impressed he has such energies

243

00:09:24,230 --> 00:09:21,920

enthusiasm always willing to go above

244

00:09:26,790 --> 00:09:24,240

and beyond to help his community and so

245

00:09:28,710 --> 00:09:26,800

when i was looking for someone who could

246

00:09:31,030 --> 00:09:28,720

lead such a distinguished panel i

247

00:09:32,710 --> 00:09:31,040

couldn't think of anybody better than

248

00:09:34,470 --> 00:09:32,720

elvis

249

00:09:36,150 --> 00:09:34,480

so let me share a little bit about mr

250

00:09:38,470 --> 00:09:36,160

cordova

251  
00:09:40,550 --> 00:09:38,480  
he was appointed by president obama to

252  
00:09:42,790 --> 00:09:40,560  
serve various leadership roles at the

253  
00:09:44,790 --> 00:09:42,800  
u.s department of agriculture

254  
00:09:46,790 --> 00:09:44,800  
he was most recently served as acting

255  
00:09:47,990 --> 00:09:46,800  
under secretary at the u.s department of

256  
00:09:50,310 --> 00:09:48,000  
agriculture where he helped to

257  
00:09:52,550 --> 00:09:50,320  
strengthen and advance u.s agricultural

258  
00:09:54,949 --> 00:09:52,560  
interests worth about 150 billion

259  
00:09:57,190 --> 00:09:54,959  
dollars annually he oversaw food

260  
00:09:59,509 --> 00:09:57,200  
labeling programs including organic and

261  
00:10:02,470 --> 00:09:59,519  
biotechnology international trade

262  
00:10:04,949 --> 00:10:02,480  
regulations and expansion of regional

263  
00:10:07,750 --> 00:10:04,959

food systems he also serves as the white

264

00:10:10,069 --> 00:10:07,760

task force for puerto rico

265

00:10:11,670 --> 00:10:10,079

focusing on building private

266

00:10:13,509 --> 00:10:11,680

private partnerships

267

00:10:15,030 --> 00:10:13,519

at usda he also focused on the

268

00:10:17,750 --> 00:10:15,040

development and implementation of

269

00:10:20,949 --> 00:10:17,760

outreach strategies to foster diversity

270

00:10:23,190 --> 00:10:20,959

inclusion and innovation as well as

271

00:10:25,190 --> 00:10:23,200

boosting investments aid

272

00:10:27,350 --> 00:10:25,200

aimed at enhancing the delivery of our

273

00:10:29,670 --> 00:10:27,360

cultural education programs to

274

00:10:33,030 --> 00:10:29,680

underserved population

275

00:10:34,230 --> 00:10:33,040

he became a federal employee as

276

00:10:36,230 --> 00:10:34,240

when he entered the presidential

277

00:10:38,630 --> 00:10:36,240

management fellow program

278

00:10:40,630 --> 00:10:38,640

and then

279

00:10:43,030 --> 00:10:40,640

eventually went to energy

280

00:10:45,030 --> 00:10:43,040

where he worked on alternative energy

281

00:10:48,069 --> 00:10:45,040

economic development financial services

282

00:10:50,389 --> 00:10:48,079

and congressional public affairs

283

00:10:51,910 --> 00:10:50,399

you know outside of federal government

284

00:10:54,790 --> 00:10:51,920

he's been the vice president of public

285

00:10:56,710 --> 00:10:54,800

relations at tolkien media director of

286

00:10:59,030 --> 00:10:56,720

public american programs a self-reliance

287

00:11:02,150 --> 00:10:59,040

foundation and a consultant for united

288

00:11:04,949 --> 00:11:02,160

nations um so he's he's kind of a big

289

00:11:07,509 --> 00:11:04,959

deal i'm excited that he's here um i do

290

00:11:10,630 --> 00:11:07,519

want to say though that uh we will have

291

00:11:13,670 --> 00:11:10,640

a question and answer portion later on

292

00:11:14,470 --> 00:11:13,680

and we know we have a lot of

293

00:11:16,870 --> 00:11:14,480

people

294

00:11:19,190 --> 00:11:16,880

logging on online so we encourage you to

295

00:11:21,350 --> 00:11:19,200

send in your questions so

296

00:11:23,509 --> 00:11:21,360

later on we will open it up and please

297

00:11:25,750 --> 00:11:23,519

feel free to email your questions we'll

298

00:11:29,110 --> 00:11:25,760

take about two or three questions

299

00:11:32,230 --> 00:11:29,120

you can email them at hq

300

00:11:34,790 --> 00:11:32,240

hola mail.nasa.gov

301  
00:11:38,870 --> 00:11:34,800  
i'm sure they'll put it up thank you

302  
00:11:40,389 --> 00:11:38,880  
again hq hola mail.nasa.gov

303  
00:11:43,590 --> 00:11:40,399  
and we will take those questions from

304  
00:11:44,470 --> 00:11:43,600  
our online audience that being said

305  
00:11:47,030 --> 00:11:44,480  
please

306  
00:11:54,949 --> 00:11:47,040  
join me in welcoming our moderator and

307  
00:11:59,910 --> 00:11:57,269  
maria and uh buenos dias to all of you

308  
00:12:01,590 --> 00:11:59,920  
it's uh such a pleasure to be here um

309  
00:12:03,750 --> 00:12:01,600  
i'll tell you a story in a minute but

310  
00:12:05,990 --> 00:12:03,760  
just know that since i was little i've

311  
00:12:08,389 --> 00:12:06,000  
thought of being at nasa

312  
00:12:10,710 --> 00:12:08,399  
uh and so being here it's surreal i keep

313  
00:12:13,350 --> 00:12:10,720

pinching myself to just make sure i'm

314

00:12:15,990 --> 00:12:13,360

not dreaming um but i really want to

315

00:12:18,069 --> 00:12:16,000

thank maria in the hola team for putting

316

00:12:20,069 --> 00:12:18,079

together such an amazing event

317

00:12:21,829 --> 00:12:20,079

i know the work that you've put into it

318

00:12:23,829 --> 00:12:21,839

the thought that you put into it

319

00:12:26,230 --> 00:12:23,839

and so i just really want to thank you

320

00:12:28,389 --> 00:12:26,240

and just give you a moment to shine

321

00:12:29,670 --> 00:12:28,399

because you and your team

322

00:12:31,509 --> 00:12:29,680

have really

323

00:12:33,110 --> 00:12:31,519

thought this out really well and i think

324

00:12:35,190 --> 00:12:33,120

what can come out of this is going to be

325

00:12:36,949 --> 00:12:35,200

important so if we could just please

326

00:12:39,910 --> 00:12:36,959

give them a round of applause for all

327

00:12:43,590 --> 00:12:41,829

and on a personal note thank you for

328

00:12:45,509 --> 00:12:43,600

helping a personal dream come true and

329

00:12:46,870 --> 00:12:45,519

bringing me here um

330

00:12:48,310 --> 00:12:46,880

so

331

00:12:50,470 --> 00:12:48,320

one of the things we want to do here

332

00:12:52,310 --> 00:12:50,480

today is we want to start a conversation

333

00:12:53,670 --> 00:12:52,320

and we want this conversation that later

334

00:12:55,590 --> 00:12:53,680

lead to action

335

00:12:57,670 --> 00:12:55,600

so what we do here today is going to be

336

00:13:00,629 --> 00:12:57,680

important because it'll instill the

337

00:13:02,550 --> 00:13:00,639

thoughts that can take action later

338

00:13:05,350 --> 00:13:02,560

and so we definitely want all of you to

339

00:13:07,829 --> 00:13:05,360

participate not only today but beyond

340

00:13:08,870 --> 00:13:07,839

today and really help continue this

341

00:13:10,389 --> 00:13:08,880

movement

342

00:13:12,310 --> 00:13:10,399

we hope that we'll be able to provide

343

00:13:13,110 --> 00:13:12,320

you with enough seeds for you all to

344

00:13:16,150 --> 00:13:13,120

grow

345

00:13:17,670 --> 00:13:16,160

some amazing endeavors later on uh and

346

00:13:19,670 --> 00:13:17,680

what i want to do is i want to take a

347

00:13:22,550 --> 00:13:19,680

moment to recognize our panel and and

348

00:13:24,150 --> 00:13:22,560

have them do small intro quick intros

349

00:13:26,550 --> 00:13:24,160

about the work that they're doing

350

00:13:28,069 --> 00:13:26,560

because they're just absolutely stellar

351

00:13:30,150 --> 00:13:28,079

no pun intended

352

00:13:31,990 --> 00:13:30,160

and they're doing some amazing things

353

00:13:34,230 --> 00:13:32,000

and i'd like to start off with dr marla

354

00:13:36,230 --> 00:13:34,240

perez david who's the deputy center

355

00:13:37,190 --> 00:13:36,240

director for the nasa glenn research

356

00:13:39,110 --> 00:13:37,200

center

357

00:13:41,590 --> 00:13:39,120

dr perez davis if you could give us a

358

00:13:43,990 --> 00:13:41,600

quick synopsis of your work

359

00:13:45,509 --> 00:13:44,000

good morning buenos dias

360

00:13:47,990 --> 00:13:45,519

thank you very much for the opportunity

361

00:13:50,870 --> 00:13:48,000

to be here and look forward to the panel

362

00:13:53,910 --> 00:13:50,880

discussion and other questions later on

363

00:13:56,150 --> 00:13:53,920

so i served as center deputy director at

364

00:13:58,230 --> 00:13:56,160

nasa glenn research center and in there

365

00:13:59,269 --> 00:13:58,240

i shared responsibility with the center

366

00:14:00,949 --> 00:13:59,279

director

367

00:14:03,269 --> 00:14:00,959

for planning

368

00:14:04,790 --> 00:14:03,279

organizing and managing all the programs

369

00:14:07,269 --> 00:14:04,800

and projects that are

370

00:14:09,110 --> 00:14:07,279

agency level assigned to the center so

371

00:14:11,110 --> 00:14:09,120

again thank you very much for the

372

00:14:12,470 --> 00:14:11,120

opportunity to be here thank you dr

373

00:14:15,030 --> 00:14:12,480

perez davis

374

00:14:16,629 --> 00:14:15,040

second we have sandra alba kaufman who

375

00:14:18,470 --> 00:14:16,639

is the deputy director for the earth

376

00:14:20,949 --> 00:14:18,480

science division at the

377

00:14:22,790 --> 00:14:20,959

science mission to

378

00:14:26,310 --> 00:14:22,800

dictate here

379

00:14:29,670 --> 00:14:26,320

directory pardon me my action came out

380

00:14:31,110 --> 00:14:29,680

it's okay at nasa headquarters

381

00:14:33,269 --> 00:14:31,120

please tell us a little bit about your

382

00:14:36,629 --> 00:14:33,279

work here at nasa yeah thank you so much

383

00:14:38,710 --> 00:14:36,639

hola constant uh it is uh uh nice to be

384

00:14:40,470 --> 00:14:38,720

here celebrating um hispanic history

385

00:14:42,870 --> 00:14:40,480

month with all of you

386

00:14:44,470 --> 00:14:42,880

so i am the deputy uh director for the

387

00:14:46,949 --> 00:14:44,480

euro science division at nasa

388

00:14:49,990 --> 00:14:46,959

headquarters and we oversee

389

00:14:52,470 --> 00:14:50,000

all of the earth science aspects

390

00:14:53,670 --> 00:14:52,480

of the entire agency uh for their

391

00:14:55,030 --> 00:14:53,680

science

392

00:14:57,030 --> 00:14:55,040

so when i first

393

00:14:59,350 --> 00:14:57,040

took this position i was telling a

394

00:15:00,949 --> 00:14:59,360

neighbor that i was going to be working

395

00:15:02,310 --> 00:15:00,959

on earth science and the first thing

396

00:15:03,990 --> 00:15:02,320

they asked me was you're not going to

397

00:15:06,150 --> 00:15:04,000

launch satellites anymore

398

00:15:09,110 --> 00:15:06,160

and of course we have satellites you all

399

00:15:11,350 --> 00:15:09,120

know you know and earth science is

400

00:15:14,230 --> 00:15:11,360

an amazing program and we

401  
00:15:16,790 --> 00:15:14,240  
are constantly looking at earth looking

402  
00:15:18,550 --> 00:15:16,800  
at our home planet and what we do and i

403  
00:15:19,269 --> 00:15:18,560  
share responsibility with the director

404  
00:15:21,030 --> 00:15:19,279  
and

405  
00:15:23,030 --> 00:15:21,040  
overseeing

406  
00:15:24,629 --> 00:15:23,040  
the the entire portfolio of our science

407  
00:15:27,509 --> 00:15:24,639  
missions and

408  
00:15:29,829 --> 00:15:27,519  
not only the flight and the technology

409  
00:15:33,030 --> 00:15:29,839  
and the research but also all the the

410  
00:15:35,110 --> 00:15:33,040  
societal benefits that entail uh in

411  
00:15:37,910 --> 00:15:35,120  
finding out you know how this little

412  
00:15:41,350 --> 00:15:37,920  
planet that we live in functions and

413  
00:15:44,949 --> 00:15:41,360

works so thank you thank you very much

414

00:15:49,749 --> 00:15:44,959

uh next we have dr yarisca collado vega

415

00:15:54,069 --> 00:15:52,150

man this accent of mine

416

00:15:55,590 --> 00:15:54,079

was a physical science at the nasa

417

00:15:57,509 --> 00:15:55,600

goddard space

418

00:15:59,749 --> 00:15:57,519

flight center

419

00:16:03,509 --> 00:15:59,759

uh good morning hola

420

00:16:07,189 --> 00:16:05,509

um but nobody at goddard knows me like

421

00:16:09,670 --> 00:16:07,199

that they know me as jadi because it's a

422

00:16:12,230 --> 00:16:09,680

lot easier actually call me yari which

423

00:16:14,710 --> 00:16:12,240

i'm okay with that um i've been a ghada

424

00:16:16,710 --> 00:16:14,720

for 14 years i'm originally from

425

00:16:19,189 --> 00:16:16,720

puerto rico marilla island which is

426

00:16:21,509 --> 00:16:19,199

suffering a little bit now

427

00:16:23,430 --> 00:16:21,519

and i do i'm actually the lead for the

428

00:16:25,749 --> 00:16:23,440

space welder team there i work with the

429

00:16:27,990 --> 00:16:25,759

community coordinating modeling center

430

00:16:29,829 --> 00:16:28,000

we do validation of models for space

431

00:16:31,670 --> 00:16:29,839

weather and we do space weather

432

00:16:35,189 --> 00:16:31,680

forecasting to protect nasa robotic

433

00:16:37,670 --> 00:16:35,199

missions and i love i love my job

434

00:16:40,470 --> 00:16:37,680

wonderful thank you very much

435

00:16:42,310 --> 00:16:40,480

next we have marile colon robes who's

436

00:16:45,509 --> 00:16:42,320

the education outreach coordinator for

437

00:16:46,790 --> 00:16:45,519

the nasa langley research center marilla

438

00:16:48,230 --> 00:16:46,800

please tell us a little bit about you

439

00:16:50,069 --> 00:16:48,240

thank you so much

440

00:16:51,910 --> 00:16:50,079

my name is marile and i'm also from

441

00:16:54,150 --> 00:16:51,920

puerto rico so thank you so much for

442

00:16:55,670 --> 00:16:54,160

your prayers and help for our island it

443

00:16:58,710 --> 00:16:55,680

really means a lot

444

00:17:02,389 --> 00:16:58,720

i'm an education specialist so i get to

445

00:17:05,189 --> 00:17:02,399

engage and inspire teachers and students

446

00:17:07,270 --> 00:17:05,199

all around the country and particularly

447

00:17:09,429 --> 00:17:07,280

with the globe program the global

448

00:17:11,270 --> 00:17:09,439

learning and observations to benefit the

449

00:17:14,390 --> 00:17:11,280

environment what it is is an

450

00:17:16,230 --> 00:17:14,400

international program where anybody can

451  
00:17:18,630 --> 00:17:16,240  
enter their data if they follow the

452  
00:17:20,150 --> 00:17:18,640  
instructions that we have there and then

453  
00:17:22,069 --> 00:17:20,160  
you get to

454  
00:17:24,390 --> 00:17:22,079  
include your observations so that

455  
00:17:26,789 --> 00:17:24,400  
researchers can do

456  
00:17:28,870 --> 00:17:26,799  
their observations of the planet earth

457  
00:17:31,270 --> 00:17:28,880  
at nasa langley which we're celebrating

458  
00:17:32,789 --> 00:17:31,280  
100 years right now

459  
00:17:33,669 --> 00:17:32,799  
we send you

460  
00:17:36,230 --> 00:17:33,679  
um

461  
00:17:37,909 --> 00:17:36,240  
what a satellite observe if you send us

462  
00:17:39,669 --> 00:17:37,919  
your cloud observations so you get an

463  
00:17:41,750 --> 00:17:39,679

email from nasa

464

00:17:44,070 --> 00:17:41,760  
with your observations next to a

465

00:17:45,750 --> 00:17:44,080  
satellite that was right on top of you

466

00:17:49,029 --> 00:17:45,760  
at the same time as you did your

467

00:17:50,789 --> 00:17:49,039  
observations so it's really um powerful

468

00:17:52,390 --> 00:17:50,799  
and i get to pay it forward which is

469

00:17:54,630 --> 00:17:52,400  
always my passion

470

00:17:57,029 --> 00:17:54,640  
wonderful thank you so much marile

471

00:17:58,789 --> 00:17:57,039  
next we have dr carolina aguirre who is

472

00:18:01,350 --> 00:17:58,799  
the director for stem education at the

473

00:18:04,070 --> 00:18:01,360  
university of new mexico

474

00:18:05,990 --> 00:18:04,080  
hello and thank you for having me here

475

00:18:06,789 --> 00:18:06,000  
i'm very excited

476

00:18:07,990 --> 00:18:06,799

um

477

00:18:10,870 --> 00:18:08,000

like you

478

00:18:15,190 --> 00:18:10,880

nasa is a big thing

479

00:18:18,070 --> 00:18:15,200

i'm excited um i am from uh albuquerque

480

00:18:20,870 --> 00:18:18,080

new mexico i work at the university of

481

00:18:22,630 --> 00:18:20,880

new mexico valencia branch so it's a

482

00:18:26,470 --> 00:18:22,640

community college

483

00:18:28,789 --> 00:18:26,480

and at that college i direct a stem

484

00:18:31,350 --> 00:18:28,799

grant which is

485

00:18:34,230 --> 00:18:31,360

reaching rural stem students

486

00:18:36,230 --> 00:18:34,240

so for a living i've been writing grants

487

00:18:38,789 --> 00:18:36,240

and providing

488

00:18:41,990 --> 00:18:38,799

funding and direction for students

489

00:18:44,150 --> 00:18:42,000

to align them into the stem fields

490

00:18:46,710 --> 00:18:44,160

wonderful thank you very much thank you

491

00:18:48,950 --> 00:18:46,720

and that last but not least is it's a

492

00:18:50,870 --> 00:18:48,960

very impressive individual who's a close

493

00:18:53,350 --> 00:18:50,880

friend of mine and a mentor of mine jose

494

00:18:55,350 --> 00:18:53,360

antonio tierino the president ceo of the

495

00:18:57,750 --> 00:18:55,360

hispanic heritage foundation

496

00:18:59,590 --> 00:18:57,760

we all like to call him tony so tony

497

00:19:01,510 --> 00:18:59,600

please tell us a little bit about the

498

00:19:03,990 --> 00:19:01,520

great work that you do we focus on

499

00:19:05,110 --> 00:19:04,000

education workforce development public

500

00:19:07,990 --> 00:19:05,120

awareness

501  
00:19:10,230 --> 00:19:08,000  
and all through kind of the across all

502  
00:19:12,310 --> 00:19:10,240  
of those things is connectivity

503  
00:19:13,830 --> 00:19:12,320  
leadership and innovation

504  
00:19:15,830 --> 00:19:13,840  
but we also want to work backwards from

505  
00:19:17,590 --> 00:19:15,840  
what america's priorities are which end

506  
00:19:19,110 --> 00:19:17,600  
up being for the most part in the stem

507  
00:19:20,150 --> 00:19:19,120  
fields

508  
00:19:20,870 --> 00:19:20,160  
wonderful

509  
00:19:23,110 --> 00:19:20,880  
so

510  
00:19:25,270 --> 00:19:23,120  
as you can see we have an amazing

511  
00:19:28,150 --> 00:19:25,280  
diversity of folks not only in

512  
00:19:30,870 --> 00:19:28,160  
nationalities but also in their thoughts

513  
00:19:32,390 --> 00:19:30,880

and so i promised you a personal story

514

00:19:33,510 --> 00:19:32,400

back when i first arrived into this

515

00:19:36,390 --> 00:19:33,520

country

516

00:19:38,150 --> 00:19:36,400

i grew up in el salvador like maria

517

00:19:40,310 --> 00:19:38,160

and it was funny because i used to watch

518

00:19:42,950 --> 00:19:40,320

i remember watching cartoons that were

519

00:19:45,590 --> 00:19:42,960

from japan there were these early magna

520

00:19:46,789 --> 00:19:45,600

cartoons about being in outer space and

521

00:19:49,590 --> 00:19:46,799

exploring

522

00:19:52,470 --> 00:19:49,600

and when we migrated to the u.s due to

523

00:19:54,470 --> 00:19:52,480

the civil war i remember that one of the

524

00:19:56,070 --> 00:19:54,480

first things that greeted me and that

525

00:19:58,150 --> 00:19:56,080

made me feel comfortable were these

526  
00:19:59,990 --> 00:19:58,160  
cartoons right so these but they were

527  
00:20:01,590 --> 00:20:00,000  
now in english and believe it or not it

528  
00:20:03,350 --> 00:20:01,600  
was these cartoons that actually helped

529  
00:20:05,190 --> 00:20:03,360  
me learned english because i remembered

530  
00:20:07,190 --> 00:20:05,200  
what they were saying in spanish and

531  
00:20:09,510 --> 00:20:07,200  
slowly things started to translate for

532  
00:20:11,350 --> 00:20:09,520  
me right so the international aspect to

533  
00:20:13,590 --> 00:20:11,360  
this a cartoon in japan being shown in

534  
00:20:14,710 --> 00:20:13,600  
latin america greeting me in the united

535  
00:20:17,350 --> 00:20:14,720  
states

536  
00:20:21,430 --> 00:20:17,360  
um talks about the power

537  
00:20:22,789 --> 00:20:21,440  
of communication um and so later on when

538  
00:20:25,110 --> 00:20:22,799

i was about to go to high school i wrote

539

00:20:27,029 --> 00:20:25,120

a letter to nasa i said hey i want to be

540

00:20:28,549 --> 00:20:27,039

an astronaut and i'm going to go to high

541

00:20:31,029 --> 00:20:28,559

school can you please tell me what

542

00:20:33,909 --> 00:20:31,039

courses i should take so i can prepare

543

00:20:35,750 --> 00:20:33,919

and at the time i got this form back

544

00:20:36,789 --> 00:20:35,760

just a general form and had checked off

545

00:20:37,830 --> 00:20:36,799

that said

546

00:20:39,909 --> 00:20:37,840

nasa

547

00:20:41,830 --> 00:20:39,919

normally picks its astronauts from the

548

00:20:43,990 --> 00:20:41,840

scientific and military communities so

549

00:20:45,590 --> 00:20:44,000

we have no specific curriculum for you

550

00:20:47,270 --> 00:20:45,600

to follow and i was like what's a

551  
00:20:52,470 --> 00:20:47,280  
curriculum

552  
00:20:54,789 --> 00:20:52,480  
um

553  
00:20:57,350 --> 00:20:54,799  
i tell that story because because there

554  
00:20:59,190 --> 00:20:57,360  
wasn't a clear path for me to take that

555  
00:21:01,590 --> 00:20:59,200  
dream got deferred

556  
00:21:03,510 --> 00:21:01,600  
my passion and interest in science and

557  
00:21:06,870 --> 00:21:03,520  
astronomy always remained

558  
00:21:08,950 --> 00:21:06,880  
but i wasn't able to materialize it

559  
00:21:11,430 --> 00:21:08,960  
and so i wanted to really

560  
00:21:13,350 --> 00:21:11,440  
use that example as saying that for

561  
00:21:16,230 --> 00:21:13,360  
young kids it's really important for

562  
00:21:19,029 --> 00:21:16,240  
them to have that cheese spa right and

563  
00:21:22,310 --> 00:21:19,039

for that to be nurtured uh and and for

564

00:21:24,710 --> 00:21:22,320

really a path forward to be developed uh

565

00:21:27,830 --> 00:21:24,720

so that they can follow it um and

566

00:21:29,270 --> 00:21:27,840

particularly i think for latinos

567

00:21:30,390 --> 00:21:29,280

this is relevant

568

00:21:32,390 --> 00:21:30,400

latinos

569

00:21:34,310 --> 00:21:32,400

who immigrate to the united states and

570

00:21:36,390 --> 00:21:34,320

for that case all immigrants who

571

00:21:38,630 --> 00:21:36,400

immigrate to the united states are used

572

00:21:39,909 --> 00:21:38,640

to long journeys are used to going into

573

00:21:41,669 --> 00:21:39,919

the unknown

574

00:21:44,390 --> 00:21:41,679

and to some extent they're they're

575

00:21:46,230 --> 00:21:44,400

almost children of two worlds right uh

576

00:21:48,149 --> 00:21:46,240

in terms of the old country and in the

577

00:21:50,630 --> 00:21:48,159

new country and adapting to that but

578

00:21:51,669 --> 00:21:50,640

also the generations right because

579

00:21:57,669 --> 00:21:51,679

the

580

00:21:58,630 --> 00:21:57,679

here and so this generation of latinos

581

00:22:00,789 --> 00:21:58,640

what we tend to call the first

582

00:22:02,710 --> 00:22:00,799

generation of latinos is here to stay in

583

00:22:05,350 --> 00:22:02,720

the u.s and we want to contribute and we

584

00:22:08,070 --> 00:22:05,360

love the us this is such this is our

585

00:22:10,870 --> 00:22:08,080

homeland right but our parents right we

586

00:22:13,510 --> 00:22:10,880

our language our customs still harken

587

00:22:16,789 --> 00:22:13,520

back to this old world right so as

588

00:22:18,470 --> 00:22:16,799

latinos it's almost like we have

589

00:22:21,190 --> 00:22:18,480

in our cultural

590

00:22:23,510 --> 00:22:21,200

dna you know what it would take to

591

00:22:25,750 --> 00:22:23,520

partake in space exploration

592

00:22:27,430 --> 00:22:25,760

uh and the stem fields become very

593

00:22:28,470 --> 00:22:27,440

important because they begin to draw

594

00:22:31,350 --> 00:22:28,480

that out

595

00:22:33,750 --> 00:22:31,360

but cooperation is is really what leads

596

00:22:34,710 --> 00:22:33,760

to this right and it's it's cooperation

597

00:22:36,710 --> 00:22:34,720

and it's

598

00:22:38,470 --> 00:22:36,720

how can we all be working together to

599

00:22:40,789 --> 00:22:38,480

fit in these different pieces when we

600

00:22:42,789 --> 00:22:40,799

think about the greatest accomplishments

601  
00:22:45,590 --> 00:22:42,799  
in the united states

602  
00:22:47,750 --> 00:22:45,600  
among them is the space race right and

603  
00:22:49,510 --> 00:22:47,760  
that's when we had a sense of destiny

604  
00:22:51,669 --> 00:22:49,520  
that's when we had a sense of we're

605  
00:22:54,630 --> 00:22:51,679  
going to accomplish this we set a clear

606  
00:22:57,430 --> 00:22:54,640  
path a clear goal for ourselves and we

607  
00:22:59,909 --> 00:22:57,440  
put all our resources into it right it

608  
00:23:01,830 --> 00:22:59,919  
was the cooperation of many different

609  
00:23:03,510 --> 00:23:01,840  
fields there was the cooperation of many

610  
00:23:07,029 --> 00:23:03,520  
different peoples that brought that

611  
00:23:09,990 --> 00:23:07,039  
about and so we now have the opportunity

612  
00:23:12,870 --> 00:23:10,000  
to go to mars it's within our grasp and

613  
00:23:14,230 --> 00:23:12,880

really being able to take the space race

614

00:23:16,070 --> 00:23:14,240

to the next level

615

00:23:18,310 --> 00:23:16,080

um it's

616

00:23:20,470 --> 00:23:18,320

it's to some extent harkens back to what

617

00:23:22,470 --> 00:23:20,480

humanity's challenge is right from

618

00:23:24,789 --> 00:23:22,480

leaving the cradle of civilization and

619

00:23:27,590 --> 00:23:24,799

expanding throughout the globe and now

620

00:23:29,909 --> 00:23:27,600

looking at space and it's ironic because

621

00:23:31,750 --> 00:23:29,919

space is emptiness right

622

00:23:34,630 --> 00:23:31,760

but within that emptiness is really

623

00:23:35,990 --> 00:23:34,640

where we can find our destiny as a human

624

00:23:37,510 --> 00:23:36,000

race

625

00:23:39,270 --> 00:23:37,520

but that's going to take all of us

626  
00:23:42,310 --> 00:23:39,280  
working together and i think the space

627  
00:23:44,230 --> 00:23:42,320  
programs in science demands that right

628  
00:23:46,230 --> 00:23:44,240  
as you look at where we've been heading

629  
00:23:48,470 --> 00:23:46,240  
now we have an international space

630  
00:23:50,310 --> 00:23:48,480  
station right we knew that one country

631  
00:23:52,950 --> 00:23:50,320  
couldn't do it alone so how can

632  
00:23:55,590 --> 00:23:52,960  
countries work together right to get

633  
00:23:57,750 --> 00:23:55,600  
this accomplishment done and so

634  
00:24:00,230 --> 00:23:57,760  
in that spirit we have a lot of work to

635  
00:24:01,990 --> 00:24:00,240  
do and so as latinos now as we are part

636  
00:24:03,669 --> 00:24:02,000  
of this larger collective

637  
00:24:05,830 --> 00:24:03,679  
how do we

638  
00:24:08,549 --> 00:24:05,840

contribute to this larger what's because

639

00:24:09,590 --> 00:24:08,559

to me space is the ultimate relay race

640

00:24:11,110 --> 00:24:09,600

right it's going to be

641

00:24:13,029 --> 00:24:11,120

multi-generational

642

00:24:14,630 --> 00:24:13,039

and it's going to take all of us really

643

00:24:16,950 --> 00:24:14,640

working together putting our resources

644

00:24:19,110 --> 00:24:16,960

together and so our panel

645

00:24:22,390 --> 00:24:19,120

today can discuss about how we can

646

00:24:24,149 --> 00:24:22,400

really provide such a path forward for

647

00:24:27,029 --> 00:24:24,159

young students high school students and

648

00:24:29,110 --> 00:24:27,039

those going into college degrees

649

00:24:31,510 --> 00:24:29,120

and how can we be really accomplishing

650

00:24:33,669 --> 00:24:31,520

this so with that being said i i wanted

651  
00:24:36,149 --> 00:24:33,679  
to really have this conversation

652  
00:24:37,510 --> 00:24:36,159  
uh between all of us and start exploring

653  
00:24:40,390 --> 00:24:37,520  
those paths because there's a lot of

654  
00:24:43,110 --> 00:24:40,400  
work to do so maybe i can just kind of

655  
00:24:45,110 --> 00:24:43,120  
throw this out at least to the group but

656  
00:24:47,830 --> 00:24:45,120  
let's start with why is stem education

657  
00:24:50,310 --> 00:24:47,840  
important and why particularly should we

658  
00:24:51,669 --> 00:24:50,320  
be engaging the latino community some

659  
00:24:54,870 --> 00:24:51,679  
would say that we need to engage

660  
00:24:57,669 --> 00:24:54,880  
everybody yes but if we can focus on why

661  
00:25:00,630 --> 00:24:57,679  
it is important for latin

662  
00:25:02,070 --> 00:25:00,640  
to really be able to stem up uh and

663  
00:25:03,990 --> 00:25:02,080

fulfill their

664

00:25:06,470 --> 00:25:04,000

and and i open it to whoever would like

665

00:25:09,190 --> 00:25:06,480

to take that one first

666

00:25:12,230 --> 00:25:09,200

so i i start and you know feel free to

667

00:25:14,870 --> 00:25:12,240

jump here and add to it um so you talk

668

00:25:17,029 --> 00:25:14,880

about you know space exploration and you

669

00:25:19,190 --> 00:25:17,039

know that's one of the drivers there's

670

00:25:22,470 --> 00:25:19,200

also aeronautics so

671

00:25:24,470 --> 00:25:22,480

um is technical leadership how we can

672

00:25:27,029 --> 00:25:24,480

sustain the technical leadership in this

673

00:25:29,909 --> 00:25:27,039

country so when you look at how many

674

00:25:32,470 --> 00:25:29,919

hispanics the hispanic population in you

675

00:25:35,190 --> 00:25:32,480

know united states you have 17 18

676  
00:25:37,990 --> 00:25:35,200  
percent that are hispanic so that's on

677  
00:25:40,390 --> 00:25:38,000  
top potential we have to find a way to

678  
00:25:42,950 --> 00:25:40,400  
top that potential because only 10

679  
00:25:45,430 --> 00:25:42,960  
percent get to stem so that's a very

680  
00:25:47,029 --> 00:25:45,440  
small amount so first of all we have to

681  
00:25:49,750 --> 00:25:47,039  
retain that 10

682  
00:25:50,950 --> 00:25:49,760  
because 10 is what get out of the you

683  
00:25:53,669 --> 00:25:50,960  
know high

684  
00:25:55,430 --> 00:25:53,679  
uh education institutions some of them

685  
00:25:57,990 --> 00:25:55,440  
stay in the stem field some of them do

686  
00:26:00,630 --> 00:25:58,000  
not stay in the stem field so we do have

687  
00:26:02,470 --> 00:26:00,640  
a responsibility to tap that potential

688  
00:26:04,230 --> 00:26:02,480

you know storytelling i think you know

689

00:26:06,630 --> 00:26:04,240

we heard some stories this morning i

690

00:26:09,110 --> 00:26:06,640

came from you know puerto rico so i have

691

00:26:12,390 --> 00:26:09,120

my story too but we have to use the

692

00:26:14,789 --> 00:26:12,400

power of the storytelling to really

693

00:26:17,190 --> 00:26:14,799

motivate and inspire that generation

694

00:26:19,269 --> 00:26:17,200

that is possible that can be done take

695

00:26:21,510 --> 00:26:19,279

words but again you mentioned that

696

00:26:23,350 --> 00:26:21,520

they're used to challenges it's not like

697

00:26:25,669 --> 00:26:23,360

they don't know the challenge but we

698

00:26:28,870 --> 00:26:25,679

have to provide the opportunities to

699

00:26:29,669 --> 00:26:28,880

really untap that potential

700

00:26:31,990 --> 00:26:29,679

um

701  
00:26:34,149 --> 00:26:32,000  
i also want to say like like she said

702  
00:26:35,990 --> 00:26:34,159  
like the storytelling is very important

703  
00:26:37,029 --> 00:26:36,000  
as a scientist when i do a presentation

704  
00:26:39,430 --> 00:26:37,039  
i want to

705  
00:26:41,590 --> 00:26:39,440  
say what is my sciences and explain it

706  
00:26:42,950 --> 00:26:41,600  
but i also want to say who i am so

707  
00:26:44,310 --> 00:26:42,960  
people can connect with me in a

708  
00:26:47,110 --> 00:26:44,320  
different level

709  
00:26:48,710 --> 00:26:47,120  
and that also started when i i always

710  
00:26:49,750 --> 00:26:48,720  
did education outreach because i really

711  
00:26:51,510 --> 00:26:49,760  
love it

712  
00:26:53,190 --> 00:26:51,520  
and one of the things that i always say

713  
00:26:55,350 --> 00:26:53,200

is i where i'm from

714

00:26:57,350 --> 00:26:55,360

and i usually say something in spanish

715

00:26:59,669 --> 00:26:57,360

you know to get the conversation going

716

00:27:02,630 --> 00:26:59,679

and one time in one of the presentations

717

00:27:05,430 --> 00:27:02,640

that this small small kid came to met a

718

00:27:07,350 --> 00:27:05,440

female and she said wow i didn't know i

719

00:27:09,830 --> 00:27:07,360

could become a scientist

720

00:27:12,710 --> 00:27:09,840

and that for me actually hit my heart

721

00:27:15,510 --> 00:27:12,720

because she was telling me that i made

722

00:27:17,750 --> 00:27:15,520

an imprint on her you know i made that

723

00:27:19,750 --> 00:27:17,760

change on her mind and it has to do also

724

00:27:22,149 --> 00:27:19,760

by the culture that they come up you

725

00:27:24,230 --> 00:27:22,159

know i had a very supportive family

726

00:27:26,789 --> 00:27:24,240

which i'm very blessed for but i did

727

00:27:28,310 --> 00:27:26,799

have people around me saying you're not

728

00:27:29,669 --> 00:27:28,320

going to get to nasa you're not going to

729

00:27:30,789 --> 00:27:29,679

work for nasa you're not going to be a

730

00:27:32,310 --> 00:27:30,799

scientist

731

00:27:34,389 --> 00:27:32,320

look at you because they have these

732

00:27:36,710 --> 00:27:34,399

stereotypes in their minds and they let

733

00:27:38,149 --> 00:27:36,720

that clear the path when you know you

734

00:27:39,909 --> 00:27:38,159

don't have to change who you are to

735

00:27:42,389 --> 00:27:39,919

actually do what you love

736

00:27:44,389 --> 00:27:42,399

so that's part of the whole idea get the

737

00:27:46,870 --> 00:27:44,399

story going so the kids actually

738

00:27:49,590 --> 00:27:46,880

understand where you come from how you

739

00:27:50,630 --> 00:27:49,600

became what you are and they can also do

740

00:27:53,590 --> 00:27:50,640

it

741

00:27:56,149 --> 00:27:53,600

i have to say that um

742

00:27:59,269 --> 00:27:56,159

kids is going to be what they cannot see

743

00:28:02,070 --> 00:27:59,279

too and so we have to

744

00:28:05,990 --> 00:28:02,080

be role models um and you know female

745

00:28:08,149 --> 00:28:06,000

hispanic of course you know i like to uh

746

00:28:11,110 --> 00:28:08,159

show the girls that that it can be done

747

00:28:13,909 --> 00:28:11,120

and i always um you know it hispanics

748

00:28:16,549 --> 00:28:13,919

are the the fastest growing uh community

749

00:28:17,590 --> 00:28:16,559

in the united states and like marla was

750

00:28:21,350 --> 00:28:17,600

saying you know it's an untapped

751

00:28:24,070 --> 00:28:21,360

potential it's a lot of girls who

752

00:28:26,549 --> 00:28:24,080

say well i'm female i'm hispanic and

753

00:28:28,789 --> 00:28:26,559

maybe i cannot aspire to be you know a

754

00:28:31,750 --> 00:28:28,799

scientist or an engineer and i have made

755

00:28:34,549 --> 00:28:31,760

my my life mission to really encourage

756

00:28:37,350 --> 00:28:34,559

and empower all of these uh uh girls in

757

00:28:39,669 --> 00:28:37,360

particular in hispanic communities

758

00:28:42,070 --> 00:28:39,679

that they really can be whoever they

759

00:28:44,230 --> 00:28:42,080

want to be if they put forth the effort

760

00:28:47,269 --> 00:28:44,240

it's not easy i uh you know i come from

761

00:28:49,350 --> 00:28:47,279

costa rica i also immigrated to uh

762

00:28:51,590 --> 00:28:49,360

the united states and uh it wasn't easy

763

00:28:54,070 --> 00:28:51,600

it took me seven years a path to college

764

00:28:56,389 --> 00:28:54,080

it was very hard but you know i did it

765

00:28:58,870 --> 00:28:56,399

and um and and and by sharing the

766

00:29:01,269 --> 00:28:58,880

storytelling sharing the stories and and

767

00:29:03,830 --> 00:29:01,279

how i was able to to accomplish the

768

00:29:06,310 --> 00:29:03,840

dreams that i had uh you know it is a it

769

00:29:08,149 --> 00:29:06,320

is a way for for these girls and i have

770

00:29:11,029 --> 00:29:08,159

had so many girls come and said you know

771

00:29:12,870 --> 00:29:11,039

i didn't know that i could and uh in in

772

00:29:14,950 --> 00:29:12,880

and i'm always trying and i'm gonna

773

00:29:16,950 --> 00:29:14,960

stick the path and i'm gonna continue uh

774

00:29:19,029 --> 00:29:16,960

putting forth the effort uh you know so

775

00:29:21,350 --> 00:29:19,039

it's always very uh rewarding when when

776

00:29:22,950 --> 00:29:21,360

you hear uh those kind of messages back

777

00:29:25,269 --> 00:29:22,960

that that whatever little seeds you're

778

00:29:27,029 --> 00:29:25,279

planting out there are taking root and

779

00:29:29,190 --> 00:29:27,039

and they are going to grow and we have

780

00:29:31,190 --> 00:29:29,200

to start with the elementary school i

781

00:29:33,990 --> 00:29:31,200

think that's where you plant those seeds

782

00:29:36,310 --> 00:29:34,000

uh i got it um

783

00:29:37,750 --> 00:29:36,320

inspired to uh by you know to work on

784

00:29:39,029 --> 00:29:37,760

the space program when i was seven years

785

00:29:40,870 --> 00:29:39,039

old and i mean seven years old five

786

00:29:42,630 --> 00:29:40,880

years old i don't know we we know what

787

00:29:44,950 --> 00:29:42,640

we want at that age

788

00:29:46,950 --> 00:29:44,960

so we have to plant those seeds then and

789

00:29:49,430 --> 00:29:46,960

then slowly nurture them so they can

790

00:29:51,590 --> 00:29:49,440

grow and develop into our beautiful

791

00:29:53,430 --> 00:29:51,600

blooming flowers and everything

792

00:29:55,430 --> 00:29:53,440

yeah you know why do we answer that

793

00:29:56,310 --> 00:29:55,440

question please yes because i look at it

794

00:29:57,269 --> 00:29:56,320

as a

795

00:29:59,110 --> 00:29:57,279

two

796

00:30:01,430 --> 00:29:59,120

um big areas

797

00:30:05,110 --> 00:30:01,440

one is that as a community we've been

798

00:30:07,269 --> 00:30:05,120

recently devalued and defined by others

799

00:30:09,350 --> 00:30:07,279

in order to find ourselves and present

800

00:30:11,750 --> 00:30:09,360

that value proposition to america that

801  
00:30:13,430 --> 00:30:11,760  
we as latinos or as immigrants or as

802  
00:30:14,710 --> 00:30:13,440  
women offer

803  
00:30:16,950 --> 00:30:14,720  
we have to work backwards from what

804  
00:30:19,029 --> 00:30:16,960  
america needs the most and right now

805  
00:30:20,310 --> 00:30:19,039  
there's half a million jobs unfilled in

806  
00:30:23,029 --> 00:30:20,320  
the tech space

807  
00:30:24,470 --> 00:30:23,039  
i'll just stick to one part of the stem

808  
00:30:26,310 --> 00:30:24,480  
areas

809  
00:30:28,549 --> 00:30:26,320  
there's 1.1 million that'll have to be

810  
00:30:29,510 --> 00:30:28,559  
filled over the next three years

811  
00:30:31,350 --> 00:30:29,520  
so

812  
00:30:33,269 --> 00:30:31,360  
as much as latinos traditionally have

813  
00:30:35,830 --> 00:30:33,279

always answered the call in terms of

814

00:30:37,830 --> 00:30:35,840

jobs that need to be done in america

815

00:30:39,990 --> 00:30:37,840

we'll fight your wars we'll build your

816

00:30:41,590 --> 00:30:40,000

bridges we'll build your homes we'll

817

00:30:44,310 --> 00:30:41,600

take care of your children we'll pick

818

00:30:47,669 --> 00:30:44,320

your food we'll serve your food whatever

819

00:30:49,990 --> 00:30:47,679

it takes we nobly do it now the great

820

00:30:50,950 --> 00:30:50,000

need for the workforce is in the stem

821

00:30:53,110 --> 00:30:50,960

fields

822

00:30:55,990 --> 00:30:53,120

and once again we'll be able to fill

823

00:30:57,909 --> 00:30:56,000

those areas and there's nothing america

824

00:31:00,549 --> 00:30:57,919

can do we need they need us

825

00:31:03,269 --> 00:31:00,559

and we need america so it is

826

00:31:04,789 --> 00:31:03,279

a responsibility that we all have as my

827

00:31:06,470 --> 00:31:04,799

mother told me you have a greater

828

00:31:07,750 --> 00:31:06,480

responsibility than somebody that's born

829

00:31:09,669 --> 00:31:07,760

here because

830

00:31:12,389 --> 00:31:09,679

we had to fight to get here

831

00:31:13,830 --> 00:31:12,399

um you owe america a lot more than

832

00:31:15,590 --> 00:31:13,840

america owes you

833

00:31:16,950 --> 00:31:15,600

and i think that we carry that with us

834

00:31:18,870 --> 00:31:16,960

in our hearts

835

00:31:21,750 --> 00:31:18,880

and it drives us in terms of what those

836

00:31:23,190 --> 00:31:21,760

contributions are but as of right now

837

00:31:25,190 --> 00:31:23,200

ten thousand baby boomers reach

838

00:31:27,750 --> 00:31:25,200

retirement age every single day over the

839

00:31:29,430 --> 00:31:27,760

next decade ten thousand

840

00:31:31,430 --> 00:31:29,440

who's going to fill that gap youngest

841

00:31:32,710 --> 00:31:31,440

segment of the population

842

00:31:34,070 --> 00:31:32,720

fastest growing segment of the

843

00:31:36,230 --> 00:31:34,080

population

844

00:31:39,190 --> 00:31:36,240

seven out of ten new jobs in america

845

00:31:41,110 --> 00:31:39,200

will be filled by latin new jobs so

846

00:31:42,710 --> 00:31:41,120

it's two out of three

847

00:31:44,070 --> 00:31:42,720

we want to make sure that those jobs are

848

00:31:46,389 --> 00:31:44,080

in the stem fields again to work

849

00:31:48,710 --> 00:31:46,399

backwards from what america needs

850

00:31:50,630 --> 00:31:48,720

and we're always up to the task and we

851  
00:31:53,350 --> 00:31:50,640  
have to make sure that our kids are

852  
00:31:54,950 --> 00:31:53,360  
getting that chispa of inspiration

853  
00:31:56,149 --> 00:31:54,960  
from an early early stage we were just

854  
00:31:58,149 --> 00:31:56,159  
talking about

855  
00:31:59,590 --> 00:31:58,159  
how my kids we put in front of them

856  
00:32:01,430 --> 00:31:59,600  
whether it was i think it was like angry

857  
00:32:02,950 --> 00:32:01,440  
birds or something that actually was

858  
00:32:05,269 --> 00:32:02,960  
coding even though they thought they

859  
00:32:07,269 --> 00:32:05,279  
were playing video games it wasn't it

860  
00:32:08,710 --> 00:32:07,279  
was a form of coding and at our

861  
00:32:10,470 --> 00:32:08,720  
organization we always try to look at

862  
00:32:13,269 --> 00:32:10,480  
things where latinos over index in terms

863  
00:32:15,430 --> 00:32:13,279

of playing video games that we do

864

00:32:16,870 --> 00:32:15,440

programs where we engage kids by saying

865

00:32:18,789 --> 00:32:16,880

you like to play video games how about

866

00:32:20,870 --> 00:32:18,799

developing one

867

00:32:23,430 --> 00:32:20,880

and that leads into cyber

868

00:32:25,029 --> 00:32:23,440

um opportunities and in coding and all

869

00:32:27,110 --> 00:32:25,039

these other things so

870

00:32:29,029 --> 00:32:27,120

i think those are critical pieces to me

871

00:32:31,269 --> 00:32:29,039

is that we need to define ourselves and

872

00:32:32,710 --> 00:32:31,279

to find that value that we offer america

873

00:32:34,230 --> 00:32:32,720

and the way to do that is to work

874

00:32:35,830 --> 00:32:34,240

backwards from what america needs most

875

00:32:37,509 --> 00:32:35,840

which are the stem jobs

876

00:32:39,909 --> 00:32:37,519

and you bring an interesting point on it

877

00:32:42,789 --> 00:32:39,919

because latinos are the fastest growing

878

00:32:45,029 --> 00:32:42,799

in terms of you know early childhood

879

00:32:46,549 --> 00:32:45,039

education in pre-high school you know

880

00:32:48,470 --> 00:32:46,559

this 25

881

00:32:51,269 --> 00:32:48,480

of the population is made up of latinos

882

00:32:53,909 --> 00:32:51,279

and latino graduation rates are actually

883

00:32:56,149 --> 00:32:53,919

uh increasing which is great to see

884

00:32:59,590 --> 00:32:56,159

but this there's a gap in the stem

885

00:33:02,230 --> 00:32:59,600

fields uh and so i wanted to engage our

886

00:33:04,230 --> 00:33:02,240

remaining panelists why do you think um

887

00:33:06,470 --> 00:33:04,240

this gap exists and of course it's open

888

00:33:09,350 --> 00:33:06,480

to all but i wanted to give

889

00:33:11,269 --> 00:33:09,360

dr caroline and marilee a chance to talk

890

00:33:12,870 --> 00:33:11,279

well i actually was going to add to your

891

00:33:15,990 --> 00:33:12,880

point

892

00:33:17,590 --> 00:33:16,000

and also to answer this question is the

893

00:33:20,310 --> 00:33:17,600

other thing that we see here in the

894

00:33:22,070 --> 00:33:20,320

united states is that we are a knowledge

895

00:33:24,870 --> 00:33:22,080

economy

896

00:33:26,070 --> 00:33:24,880

we are counting on that knowledge

897

00:33:29,110 --> 00:33:26,080

economy

898

00:33:31,830 --> 00:33:29,120

to make us the innovators to continue to

899

00:33:34,230 --> 00:33:31,840

push us forward uh to come up with the

900

00:33:37,110 --> 00:33:34,240

next best thing and it always

901  
00:33:40,149 --> 00:33:37,120  
well it is seemingly always

902  
00:33:43,350 --> 00:33:40,159  
in an area of stem that all the great

903  
00:33:46,950 --> 00:33:43,360  
innovations are coming from

904  
00:33:49,590 --> 00:33:46,960  
if most of our hispanic population

905  
00:33:51,830 --> 00:33:49,600  
is not able to participate in that

906  
00:33:54,630 --> 00:33:51,840  
knowledge economy because they are

907  
00:33:56,950 --> 00:33:54,640  
finishing high school now

908  
00:33:59,590 --> 00:33:56,960  
at a better rate which is good

909  
00:34:00,630 --> 00:33:59,600  
however they're still not participating

910  
00:34:01,430 --> 00:34:00,640  
in

911  
00:34:10,389 --> 00:34:01,440  
the

912  
00:34:13,909 --> 00:34:10,399  
we're innovators we're thinkers we

913  
00:34:17,430 --> 00:34:13,919

create solutions we're problem solvers

914

00:34:20,629 --> 00:34:17,440

and if we aren't educating or if that

915

00:34:23,829 --> 00:34:20,639

gap continues

916

00:34:24,869 --> 00:34:23,839

latinos will continue to do well

917

00:34:27,430 --> 00:34:24,879

but they

918

00:34:30,389 --> 00:34:27,440

also need their place

919

00:34:34,310 --> 00:34:30,399

in the knowledge economy they need to

920

00:34:36,629 --> 00:34:34,320

have the opportunity to innovate

921

00:34:40,470 --> 00:34:36,639

and it and it was brought up the need

922

00:34:43,750 --> 00:34:40,480

for um a term that an educator

923

00:34:45,829 --> 00:34:43,760

used in the 90s of windows and mirrors

924

00:34:48,470 --> 00:34:45,839

mirrors so that they can see someone

925

00:34:50,629 --> 00:34:48,480

that looks like them speaks like them

926  
00:34:53,030 --> 00:34:50,639  
went through similar situations so that

927  
00:34:55,270 --> 00:34:53,040  
they can relate so when we go and say

928  
00:34:57,990 --> 00:34:55,280  
you can have a stem opportunity you can

929  
00:34:59,349 --> 00:34:58,000  
work at nasa they see it as an actual

930  
00:35:02,230 --> 00:34:59,359  
possibility

931  
00:35:04,150 --> 00:35:02,240  
right the other one are windows we need

932  
00:35:06,790 --> 00:35:04,160  
to show them the opportunities that

933  
00:35:08,550 --> 00:35:06,800  
exist and through that we really need to

934  
00:35:10,390 --> 00:35:08,560  
work with the teachers

935  
00:35:12,790 --> 00:35:10,400  
of these students we need to work the

936  
00:35:14,230 --> 00:35:12,800  
communities and the families so really

937  
00:35:17,030 --> 00:35:14,240  
involving

938  
00:35:19,510 --> 00:35:17,040

everybody together and the beauty of

939

00:35:21,990 --> 00:35:19,520

stem is that stem is in everything right

940

00:35:25,109 --> 00:35:22,000

we have basically super computers in our

941

00:35:28,069 --> 00:35:25,119

hands right our phones right that is

942

00:35:29,750 --> 00:35:28,079

stem they're already doing stem so it's

943

00:35:32,470 --> 00:35:29,760

really supporting those teachers the

944

00:35:33,750 --> 00:35:32,480

community the parents to say this is

945

00:35:35,829 --> 00:35:33,760

already stem

946

00:35:38,390 --> 00:35:35,839

and you're doing it and you can go

947

00:35:41,589 --> 00:35:38,400

forward with it i think that's very

948

00:35:44,550 --> 00:35:41,599

important and necessary that's wonderful

949

00:35:46,390 --> 00:35:44,560

yay if i may call you that um

950

00:35:47,990 --> 00:35:46,400

how important how important is stem

951  
00:35:48,950 --> 00:35:48,000  
curriculum

952  
00:35:57,829 --> 00:35:48,960  
in

953  
00:35:59,510 --> 00:35:57,839  
students

954  
00:36:02,310 --> 00:35:59,520  
for the stem fields

955  
00:36:03,829 --> 00:36:02,320  
so like as sandra said um when you get

956  
00:36:05,750 --> 00:36:03,839  
the kids when they're really early

957  
00:36:07,190 --> 00:36:05,760  
that's when you plant the seed

958  
00:36:08,710 --> 00:36:07,200  
and it's very interesting because when

959  
00:36:11,270 --> 00:36:08,720  
you give presentations to different

960  
00:36:13,430 --> 00:36:11,280  
levels of kids you see how they change

961  
00:36:15,829 --> 00:36:13,440  
their minds at the beginning they're

962  
00:36:17,990 --> 00:36:15,839  
always like excited wow i love that

963  
00:36:19,430 --> 00:36:18,000

science and they get really excited

964

00:36:21,349 --> 00:36:19,440

about everything that you talk about

965

00:36:24,390 --> 00:36:21,359

then in middle school they start asking

966

00:36:25,990 --> 00:36:24,400

more about how that happens you know

967

00:36:28,550 --> 00:36:26,000

everything like that and then in high

968

00:36:29,910 --> 00:36:28,560

school then they derail a little bit

969

00:36:31,670 --> 00:36:29,920

because now they're interested in how

970

00:36:33,510 --> 00:36:31,680

much money you make that's reality

971

00:36:36,310 --> 00:36:33,520

that's the questions that i get how much

972

00:36:38,069 --> 00:36:36,320

money do you make and i said well i mean

973

00:36:39,990 --> 00:36:38,079

i wanted to be tourism when i was in

974

00:36:42,550 --> 00:36:40,000

high school because i i always wanted to

975

00:36:45,430 --> 00:36:42,560

be a scientist when i was a kid but then

976  
00:36:49,030 --> 00:36:45,440  
i got derailed myself and in high school

977  
00:36:51,670 --> 00:36:49,040  
i thought about doing tourism but then

978  
00:36:54,470 --> 00:36:51,680  
once one teacher said no you're good at

979  
00:36:56,150 --> 00:36:54,480  
science go to science so i started my

980  
00:36:58,870 --> 00:36:56,160  
undergrad in physics so i decided to be

981  
00:36:59,910 --> 00:36:58,880  
poor i'm just kidding

982  
00:37:01,510 --> 00:36:59,920  
just kidding

983  
00:37:03,750 --> 00:37:01,520  
uh but you know everybody that does

984  
00:37:06,310 --> 00:37:03,760  
science knows that it's not a field to

985  
00:37:07,030 --> 00:37:06,320  
be rich it's you do it because you love

986  
00:37:09,750 --> 00:37:07,040  
it

987  
00:37:11,030 --> 00:37:09,760  
right and when i gave that presentation

988  
00:37:13,430 --> 00:37:11,040

to that high school where they started

989

00:37:15,829 --> 00:37:13,440

saying you know how much you make i said

990

00:37:18,310 --> 00:37:15,839

oh my god yeah we need to plant the seed

991

00:37:20,790 --> 00:37:18,320

on the smallest ones but we also need to

992

00:37:23,270 --> 00:37:20,800

keep them in the path

993

00:37:25,670 --> 00:37:23,280

while they go through the whole school

994

00:37:27,750 --> 00:37:25,680

time right because at the high school

995

00:37:30,150 --> 00:37:27,760

level i wish i had a scientist go to my

996

00:37:31,910 --> 00:37:30,160

school and say what they did and how

997

00:37:33,510 --> 00:37:31,920

they worked on and say that they work

998

00:37:35,030 --> 00:37:33,520

for nasa because that would have

999

00:37:37,750 --> 00:37:35,040

actually given me a little bit more of

1000

00:37:39,589 --> 00:37:37,760

push of keep doing it what i did

1001  
00:37:40,710 --> 00:37:39,599  
right so i think it's really important

1002  
00:37:44,550 --> 00:37:40,720  
to actually

1003  
00:37:46,870 --> 00:37:44,560  
for us to be mentors all the time and

1004  
00:37:49,109 --> 00:37:46,880  
like he said she said it's not only to

1005  
00:37:51,349 --> 00:37:49,119  
the kids it's also to the teachers we

1006  
00:37:53,750 --> 00:37:51,359  
also have to communicate to the teachers

1007  
00:37:56,150 --> 00:37:53,760  
so the teachers can give that kind of

1008  
00:37:58,390 --> 00:37:56,160  
also impact and communication to this

1009  
00:38:00,710 --> 00:37:58,400  
kid the kids when they work with them

1010  
00:38:03,510 --> 00:38:00,720  
every single day school is the second

1011  
00:38:05,750 --> 00:38:03,520  
home yes so that's where they learn the

1012  
00:38:07,270 --> 00:38:05,760  
most right yes next time they ask you

1013  
00:38:09,430 --> 00:38:07,280

that though you can make a million

1014

00:38:11,510 --> 00:38:09,440

dollars more in a stem field than in a

1015

00:38:13,510 --> 00:38:11,520

non-stem field so there there is an

1016

00:38:15,190 --> 00:38:13,520

answer question of how much you can make

1017

00:38:17,030 --> 00:38:15,200

i was going to say that

1018

00:38:19,109 --> 00:38:17,040

i usually get this from kids well i'm

1019

00:38:20,390 --> 00:38:19,119

not that good at math and i always look

1020

00:38:21,829 --> 00:38:20,400

at them and it's like it's not whether

1021

00:38:23,349 --> 00:38:21,839

you're good or bad at math it's how much

1022

00:38:25,109 --> 00:38:23,359

effort you want to put into learning the

1023

00:38:26,950 --> 00:38:25,119

subject i mean it might take a little

1024

00:38:29,109 --> 00:38:26,960

more a little less but you know if you

1025

00:38:30,870 --> 00:38:29,119

want something yeah you can do it and

1026

00:38:32,790 --> 00:38:30,880

and the other thing is that they are

1027

00:38:34,950 --> 00:38:32,800

afraid you know we're afraid of failure

1028

00:38:36,710 --> 00:38:34,960

and the first time you fail calculus you

1029

00:38:38,310 --> 00:38:36,720

know you're like i'm not good at this

1030

00:38:40,390 --> 00:38:38,320

well what do you do you take it again

1031

00:38:42,150 --> 00:38:40,400

until you learn it i took a class three

1032

00:38:43,910 --> 00:38:42,160

times and

1033

00:38:45,190 --> 00:38:43,920

i know i needed it for engineering and i

1034

00:38:46,710 --> 00:38:45,200

wasn't going to be an engineer if i

1035

00:38:48,630 --> 00:38:46,720

wasn't going to if i didn't take

1036

00:38:49,990 --> 00:38:48,640

electromagnetic theory and by the third

1037

00:38:52,069 --> 00:38:50,000

time i took it i learned it and thank

1038

00:38:55,349 --> 00:38:52,079

god you know but

1039

00:38:58,390 --> 00:38:55,359

but but it is the the biggest issue that

1040

00:39:01,270 --> 00:38:58,400

we have is retaining the kids in those

1041

00:39:02,710 --> 00:39:01,280

careers you know once they fail or they

1042

00:39:05,270 --> 00:39:02,720

find that they're not doing

1043

00:39:06,950 --> 00:39:05,280

so well in a class that is required then

1044

00:39:08,870 --> 00:39:06,960

they drop out and then go into some

1045

00:39:11,030 --> 00:39:08,880

other field that is a lot easier so we

1046

00:39:13,109 --> 00:39:11,040

have to encourage them to to stick the

1047

00:39:14,550 --> 00:39:13,119

path and it's hard it's not easy but

1048

00:39:15,910 --> 00:39:14,560

they can do it if they put forth the

1049

00:39:17,270 --> 00:39:15,920

effort and i know

1050

00:39:19,589 --> 00:39:17,280

you know some of us had to go through a

1051

00:39:22,630 --> 00:39:19,599

lot of things to to to do it but it

1052

00:39:24,790 --> 00:39:22,640

is it is it is possible so and and that

1053

00:39:26,550 --> 00:39:24,800

actually happened to me too i was in an

1054

00:39:28,950 --> 00:39:26,560

undergrad and i was taking physics for

1055

00:39:31,270 --> 00:39:28,960

the first time uh graduate you know

1056

00:39:33,430 --> 00:39:31,280

undergrad physics and i took the first

1057

00:39:34,790 --> 00:39:33,440

exam and said no this is not for me i'm

1058

00:39:37,510 --> 00:39:34,800

gonna do electrical engineer because

1059

00:39:39,910 --> 00:39:37,520

that's what i like i like electricity uh

1060

00:39:41,829 --> 00:39:39,920

everything that is abstract and when

1061

00:39:43,990 --> 00:39:41,839

that time i actually had to when i

1062

00:39:46,310 --> 00:39:44,000

wanted to withdraw from the whole uh

1063

00:39:48,150 --> 00:39:46,320

major you had the professor had to sign

1064

00:39:50,310 --> 00:39:48,160

it the one that it was the the chair of

1065

00:39:51,910 --> 00:39:50,320

the faculty and he was the same

1066

00:39:54,310 --> 00:39:51,920

professor that was giving me the physics

1067

00:39:55,910 --> 00:39:54,320

course and he said no you're not going

1068

00:39:57,750 --> 00:39:55,920

and i said well i need you to sign this

1069

00:39:59,589 --> 00:39:57,760

and he's like no i'm not going to sign

1070

00:40:01,829 --> 00:39:59,599

and i said i have a c in your class he's

1071

00:40:03,670 --> 00:40:01,839

like yeah from the first exam take it

1072

00:40:05,589 --> 00:40:03,680

easy because you know the first exam is

1073

00:40:07,589 --> 00:40:05,599

always the the hardest

1074

00:40:10,470 --> 00:40:07,599

you're going to be a great physicist one

1075

00:40:13,109 --> 00:40:10,480

day and that was a turn on point for me

1076

00:40:15,109 --> 00:40:13,119

because if he hadn't done that who knows

1077

00:40:16,550 --> 00:40:15,119

where you know i would end up

1078

00:40:18,630 --> 00:40:16,560

right now work for nasa and i'm a

1079

00:40:19,829 --> 00:40:18,640

scientist doing space weather so

1080

00:40:23,109 --> 00:40:19,839

and so you said something really

1081

00:40:25,109 --> 00:40:23,119

important which was the mentors um and

1082

00:40:26,790 --> 00:40:25,119

again with our theme of you know how do

1083

00:40:28,710 --> 00:40:26,800

we find a path forward i know that marla

1084

00:40:31,349 --> 00:40:28,720

and sandra you two have had incredible

1085

00:40:32,710 --> 00:40:31,359

careers very distinguished careers and

1086

00:40:34,630 --> 00:40:32,720

really moving high up the ranks in

1087

00:40:37,430 --> 00:40:34,640

government um could you talk a little

1088

00:40:39,190 --> 00:40:37,440

bit about your personal journeys uh and

1089

00:40:40,950 --> 00:40:39,200

what advice you would have for others

1090

00:40:43,510 --> 00:40:40,960

who want to emulate that who want to

1091

00:40:45,349 --> 00:40:43,520

follow in your footsteps or develop and

1092

00:40:47,750 --> 00:40:45,359

cover path for themselves as they move

1093

00:40:50,790 --> 00:40:47,760

forward with their careers

1094

00:40:52,950 --> 00:40:50,800

so um the first thing mentors let's

1095

00:40:56,870 --> 00:40:52,960

start with uh with mentors i think

1096

00:40:58,790 --> 00:40:56,880

mentors are very important in every

1097

00:41:01,030 --> 00:40:58,800

journey it doesn't matter personal or

1098

00:41:03,190 --> 00:41:01,040

professional but let's take with the uh

1099

00:41:07,030 --> 00:41:03,200

with the stamp when i was growing up in

1100

00:41:08,950 --> 00:41:07,040

puerto rico um i didn't have mentors or

1101  
00:41:11,109 --> 00:41:08,960  
role models individuals that were

1102  
00:41:14,950 --> 00:41:11,119  
engineers but as many of them have

1103  
00:41:17,910 --> 00:41:14,960  
taught i write chemistry and math and

1104  
00:41:20,710 --> 00:41:17,920  
one good day and this is true story

1105  
00:41:23,030 --> 00:41:20,720  
i put out a book and i look at the

1106  
00:41:25,109 --> 00:41:23,040  
definition of an engineer and at that

1107  
00:41:27,190 --> 00:41:25,119  
point in time there was not as many type

1108  
00:41:29,430 --> 00:41:27,200  
of engineers that we have now so there

1109  
00:41:30,790 --> 00:41:29,440  
was just the basic you know electrical

1110  
00:41:33,270 --> 00:41:30,800  
chemical

1111  
00:41:36,550 --> 00:41:33,280  
civil engineers so i look at those and i

1112  
00:41:39,190 --> 00:41:36,560  
said oh i like chemistry and i like math

1113  
00:41:41,510 --> 00:41:39,200

so i'm going to be a chemical engineer

1114

00:41:43,750 --> 00:41:41,520

so i went to my chemistry teacher very

1115

00:41:45,990 --> 00:41:43,760

excited about i i know what i'm going to

1116

00:41:47,670 --> 00:41:46,000

be i'm going to be a chemical engineer

1117

00:41:50,470 --> 00:41:47,680

and my teacher said why you want to be

1118

00:41:52,069 --> 00:41:50,480

that you cannot be an engineer

1119

00:41:55,510 --> 00:41:52,079

so um

1120

00:41:57,750 --> 00:41:55,520

my heart was broken but i just like many

1121

00:41:59,270 --> 00:41:57,760

of us you know it's just okay listen but

1122

00:42:01,109 --> 00:41:59,280

not listen

1123

00:42:03,190 --> 00:42:01,119

i'm determined to be on a chemical

1124

00:42:05,589 --> 00:42:03,200

engineer so

1125

00:42:07,910 --> 00:42:05,599

i went to the only engineering school at

1126

00:42:09,750 --> 00:42:07,920

that point in puerto rico which is uh

1127

00:42:11,589 --> 00:42:09,760

was university of puerto rico maya west

1128

00:42:12,950 --> 00:42:11,599

number of engineer schools these days

1129

00:42:14,470 --> 00:42:12,960

but at that point in time there was only

1130

00:42:16,390 --> 00:42:14,480

one and

1131

00:42:17,910 --> 00:42:16,400

i started chemical engineering so

1132

00:42:19,829 --> 00:42:17,920

looking back i could be very wrong

1133

00:42:21,990 --> 00:42:19,839

because again i didn't have the benefit

1134

00:42:24,470 --> 00:42:22,000

of having role models or

1135

00:42:25,829 --> 00:42:24,480

other engineers around

1136

00:42:27,270 --> 00:42:25,839

i had been

1137

00:42:29,750 --> 00:42:27,280

very

1138

00:42:33,109 --> 00:42:29,760

fortunate to have the career that i have

1139

00:42:34,230 --> 00:42:33,119

and i get there now to my responsibility

1140

00:42:36,710 --> 00:42:34,240

so

1141

00:42:39,270 --> 00:42:36,720

i truly believe on mentors i have

1142

00:42:42,069 --> 00:42:39,280

mentors all my career since i started

1143

00:42:44,150 --> 00:42:42,079

nasa and some of them have stick through

1144

00:42:46,230 --> 00:42:44,160

the journey some of them has been you

1145

00:42:49,589 --> 00:42:46,240

know for a period of time but i think

1146

00:42:51,589 --> 00:42:49,599

the value of mentorship is incredible uh

1147

00:42:54,390 --> 00:42:51,599

the other thing is

1148

00:42:56,630 --> 00:42:54,400

once you start getting in your career

1149

00:42:59,349 --> 00:42:56,640

you also have the responsibility now to

1150

00:43:01,670 --> 00:42:59,359

pay back you've got to be a mentor you

1151  
00:43:05,270 --> 00:43:01,680  
have to be a mentor i think that's the

1152  
00:43:07,510 --> 00:43:05,280  
way that one tap some of that um

1153  
00:43:10,230 --> 00:43:07,520  
knowledge that is out there that's the

1154  
00:43:14,069 --> 00:43:10,240  
way that we inspire motivated people

1155  
00:43:16,390 --> 00:43:14,079  
it is not just for um students is also

1156  
00:43:18,630 --> 00:43:16,400  
in the workplace i think the value of

1157  
00:43:20,710 --> 00:43:18,640  
mentorship is incredible

1158  
00:43:23,030 --> 00:43:20,720  
i can tell you that every time i mentor

1159  
00:43:25,190 --> 00:43:23,040  
someone i learn as much as hopefully

1160  
00:43:27,270 --> 00:43:25,200  
they learn from me because it is a

1161  
00:43:29,510 --> 00:43:27,280  
two-way street it's not just one-way

1162  
00:43:32,150 --> 00:43:29,520  
street the value of mentorship is

1163  
00:43:33,349 --> 00:43:32,160

incredible so i really ask everyone in

1164

00:43:35,910 --> 00:43:33,359

this room and the ones that are

1165

00:43:38,069 --> 00:43:35,920

listening please find time to mentor

1166

00:43:38,790 --> 00:43:38,079

find the time to mentor someone at you

1167

00:43:41,910 --> 00:43:38,800

know

1168

00:43:44,150 --> 00:43:41,920

school level um universities at the

1169

00:43:46,150 --> 00:43:44,160

workplace and

1170

00:43:47,829 --> 00:43:46,160

or you know it's one of those things

1171

00:43:50,150 --> 00:43:47,839

that you never know what you're gonna

1172

00:43:52,390 --> 00:43:50,160

get out of it sometimes it doesn't work

1173

00:43:53,750 --> 00:43:52,400

so let's be clear um there's something

1174

00:43:55,990 --> 00:43:53,760

about the chemistry between the

1175

00:43:58,470 --> 00:43:56,000

individuals but that also is a learning

1176

00:44:00,790 --> 00:43:58,480

by itself so

1177

00:44:02,870 --> 00:44:00,800

that would be you know my advice to

1178

00:44:05,270 --> 00:44:02,880

individuals find someone that is in your

1179

00:44:07,829 --> 00:44:05,280

career path someone that is not because

1180

00:44:10,550 --> 00:44:07,839

sometimes we get very narrow in terms of

1181

00:44:13,510 --> 00:44:10,560

we understand our world and we forgot

1182

00:44:15,589 --> 00:44:13,520

that there's other worlds out there so

1183

00:44:17,670 --> 00:44:15,599

find someone also that is not in your

1184

00:44:18,950 --> 00:44:17,680

field because that's the way to make

1185

00:44:21,990 --> 00:44:18,960

sure that you

1186

00:44:24,550 --> 00:44:22,000

connect and you also express the value

1187

00:44:26,230 --> 00:44:24,560

of what you do in stem and how all these

1188

00:44:28,150 --> 00:44:26,240

fields are related i think you know it

1189

00:44:31,030 --> 00:44:28,160

was mentioned everything is stems are

1190

00:44:33,270 --> 00:44:31,040

everywhere so the value of technology is

1191

00:44:35,670 --> 00:44:33,280

in every single step that we

1192

00:44:38,309 --> 00:44:35,680

take these days and um so that's so that

1193

00:44:40,230 --> 00:44:38,319

would be my my advice sandra please so i

1194

00:44:41,670 --> 00:44:40,240

didn't have a mentors when i was little

1195

00:44:43,670 --> 00:44:41,680

i only had a

1196

00:44:45,990 --> 00:44:43,680

bold dream and a mother who was very

1197

00:44:47,829 --> 00:44:46,000

encouraging and uh my mother didn't

1198

00:44:51,030 --> 00:44:47,839

finish high school but to her uh you

1199

00:44:52,710 --> 00:44:51,040

know she knew that the ticket to uh um

1200

00:44:54,550 --> 00:44:52,720

be you know have a have a life and

1201

00:44:56,309 --> 00:44:54,560

everything was uh to education to do

1202

00:44:58,630 --> 00:44:56,319

education and then to really uh be

1203

00:44:59,990 --> 00:44:58,640

whoever you wanted to be and when i told

1204

00:45:01,670 --> 00:45:00,000

her i wanted to go to the moon and she

1205

00:45:03,109 --> 00:45:01,680

says sure you know put your mind to it

1206

00:45:04,950 --> 00:45:03,119

and she never told me i couldn't you

1207

00:45:06,870 --> 00:45:04,960

know so i tried to go to the moon i

1208

00:45:09,829 --> 00:45:06,880

never went to the moon of course but uh

1209

00:45:12,870 --> 00:45:09,839

but you know the the only time when i

1210

00:45:16,550 --> 00:45:12,880

first had a uh somebody who could

1211

00:45:19,270 --> 00:45:16,560

be a mentor the potential mentor was a a

1212

00:45:20,790 --> 00:45:19,280

high school math teacher

1213

00:45:22,710 --> 00:45:20,800

and she

1214

00:45:24,390 --> 00:45:22,720

i had a conversation with her and you

1215

00:45:26,150 --> 00:45:24,400

know i liked math and

1216

00:45:28,390 --> 00:45:26,160

i was it wasn't that i was good at it i

1217

00:45:30,870 --> 00:45:28,400

just work hard and she said you know you

1218

00:45:33,990 --> 00:45:30,880

ought to look at the study in um

1219

00:45:36,150 --> 00:45:34,000

engineering and she says i tried and i

1220

00:45:37,990 --> 00:45:36,160

couldn't because um you know i'm a woman

1221

00:45:39,510 --> 00:45:38,000

and whatever but maybe nowadays you can

1222

00:45:41,430 --> 00:45:39,520

well when i graduated and went to

1223

00:45:42,550 --> 00:45:41,440

college i sort of happened like marla

1224

00:45:45,109 --> 00:45:42,560

happened they told me i couldn't be an

1225

00:45:47,589 --> 00:45:45,119

engineer because i was a woman um so you

1226

00:45:49,510 --> 00:45:47,599

know i spent um they let me study

1227

00:45:51,349 --> 00:45:49,520

industrial engineering which

1228

00:45:52,630 --> 00:45:51,359

it was still engineering but in and they

1229

00:45:53,829 --> 00:45:52,640

said it was the lady like engineering

1230

00:45:54,950 --> 00:45:53,839

because there were four girls in the

1231

00:45:56,069 --> 00:45:54,960

program

1232

00:45:57,910 --> 00:45:56,079

um

1233

00:45:59,109 --> 00:45:57,920

but i still wanted to study electrical

1234

00:46:00,710 --> 00:45:59,119

and you know after doing a little

1235

00:46:02,309 --> 00:46:00,720

research as to the various disciplines

1236

00:46:03,430 --> 00:46:02,319

and everything i was bound and

1237

00:46:04,790 --> 00:46:03,440

determined that i wanted to be an

1238

00:46:06,710 --> 00:46:04,800

electrical engineer so i tried to

1239

00:46:08,309 --> 00:46:06,720

transfer it a couple of times and they

1240

00:46:09,829 --> 00:46:08,319

still turned me down so my heart was

1241

00:46:11,670 --> 00:46:09,839

broken like marvelous

1242

00:46:12,950 --> 00:46:11,680

and that's when i decided to come to the

1243

00:46:15,190 --> 00:46:12,960

states and

1244

00:46:16,870 --> 00:46:15,200

and you know i threw away basically

1245

00:46:19,829 --> 00:46:16,880

seven semesters of education i had in

1246

00:46:21,829 --> 00:46:19,839

costa rica and i changed majors and i

1247

00:46:24,069 --> 00:46:21,839

finally graduated with a double major

1248

00:46:26,069 --> 00:46:24,079

electrical engineering and physics and

1249

00:46:28,390 --> 00:46:26,079

um and you know took me seven years

1250

00:46:30,390 --> 00:46:28,400

stuck the path you know but you know

1251

00:46:31,750 --> 00:46:30,400

i've always tried to find mentors i've

1252

00:46:34,390 --> 00:46:31,760

always tried to

1253

00:46:35,990 --> 00:46:34,400

seek out the help of others uh you have

1254

00:46:37,190 --> 00:46:36,000

to speak up if you need help you cannot

1255

00:46:39,109 --> 00:46:37,200

you know people don't know that you need

1256

00:46:41,190 --> 00:46:39,119

help if you don't if you need help go

1257

00:46:42,790 --> 00:46:41,200

and and ask for the help you know people

1258

00:46:43,750 --> 00:46:42,800

don't read minds

1259

00:46:47,750 --> 00:46:43,760

and

1260

00:46:51,190 --> 00:46:47,760

waiting for mentees to come to them you

1261

00:46:52,950 --> 00:46:51,200

know go and ask people and and and i've

1262

00:46:54,630 --> 00:46:52,960

always tried to have more than one

1263

00:46:56,630 --> 00:46:54,640

mentor and the best mentors that i have

1264

00:46:57,510 --> 00:46:56,640

ever had the mentors that are listening

1265

00:46:59,270 --> 00:46:57,520

to me

1266

00:47:00,630 --> 00:46:59,280

that are really

1267

00:47:01,829 --> 00:47:00,640

trying to

1268

00:47:04,069 --> 00:47:01,839

extract

1269

00:47:05,510 --> 00:47:04,079

the my thoughts and not tell me what to

1270

00:47:07,990 --> 00:47:05,520

do but they

1271

00:47:11,109 --> 00:47:08,000

helped me figure it out on my own how

1272

00:47:12,950 --> 00:47:11,119

i'm going to do things on my own way and

1273

00:47:13,750 --> 00:47:12,960

um you know so and

1274

00:47:16,309 --> 00:47:13,760

and

1275

00:47:18,950 --> 00:47:16,319

i also like to mentor people now that i

1276

00:47:21,190 --> 00:47:18,960

have uh that i mean you know i have

1277

00:47:23,430 --> 00:47:21,200

grown up i guess in my career and you

1278

00:47:25,589 --> 00:47:23,440

know have so many years here and you

1279

00:47:28,309 --> 00:47:25,599

know the up-and-coming generation

1280

00:47:30,630 --> 00:47:28,319

and uh and i tried to kind of do the

1281

00:47:33,030 --> 00:47:30,640

same thing that my older mentors did you

1282

00:47:34,630 --> 00:47:33,040

know listen to them and try to ask them

1283

00:47:35,910 --> 00:47:34,640

questions so they can figure out their

1284

00:47:38,069 --> 00:47:35,920

own path you know because it's not what

1285

00:47:40,150 --> 00:47:38,079

i tell them to do that is going to make

1286

00:47:41,990 --> 00:47:40,160

or break them is what they figured out

1287

00:47:45,109 --> 00:47:42,000

how they are going to proceed on their

1288

00:47:47,430 --> 00:47:45,119

own uh but mentorship mentoring is is so

1289

00:47:49,349 --> 00:47:47,440

important and asking for help if you

1290

00:47:51,190 --> 00:47:49,359

don't know something you go and ask for

1291

00:47:53,270 --> 00:47:51,200

help i mean there is more than you know

1292

00:47:56,150 --> 00:47:53,280

there are a lot of angels out there who

1293

00:47:57,829 --> 00:47:56,160

are willing to help you succeed and help

1294

00:47:59,349 --> 00:47:57,839

you with whatever you know things that

1295

00:48:01,190 --> 00:47:59,359

you need so uh

1296

00:48:03,190 --> 00:48:01,200

don't don't stop asking questions and

1297

00:48:05,430 --> 00:48:03,200

don't stop seeking mentors

1298

00:48:07,030 --> 00:48:05,440

i know tony you wanted to chime in on

1299

00:48:08,870 --> 00:48:07,040

that and what i wanted to do was also

1300

00:48:10,470 --> 00:48:08,880

present an additional question for you

1301

00:48:12,790 --> 00:48:10,480

and marilee

1302

00:48:14,790 --> 00:48:12,800

in terms of the work that you all that

1303

00:48:16,470 --> 00:48:14,800

you do at hispanic heritage foundation

1304

00:48:18,790 --> 00:48:16,480

deals a lot with these competitions

1305

00:48:21,750 --> 00:48:18,800

right coding competition and stem so i

1306

00:48:23,670 --> 00:48:21,760

wanted you to also comment on um you

1307

00:48:26,630 --> 00:48:23,680

know how important are these and how are

1308

00:48:28,870 --> 00:48:26,640

they engaging that next generation and

1309

00:48:30,870 --> 00:48:28,880

inspiring them and opening doors for

1310

00:48:32,710 --> 00:48:30,880

them so the first thing is going back to

1311

00:48:34,710 --> 00:48:32,720

the role model thing it it's really

1312

00:48:36,630 --> 00:48:34,720

important that we also promote young

1313

00:48:39,190 --> 00:48:36,640

role models there's a young woman named

1314

00:48:40,390 --> 00:48:39,200

sophia sanchez maes who is now actually

1315

00:48:43,109 --> 00:48:40,400

at jpl

1316

00:48:45,589 --> 00:48:43,119

even though she's a junior in college

1317

00:48:48,630 --> 00:48:45,599

and she's working there she was coded

1318

00:48:51,510 --> 00:48:48,640

for the mars rover at 16 years old

1319

00:48:53,190 --> 00:48:51,520

she developed i think the most efficient

1320

00:48:55,270 --> 00:48:53,200

way of turning

1321

00:48:56,950 --> 00:48:55,280

algae into a biofuel

1322

00:48:58,549 --> 00:48:56,960

that's ever been done when she was like

1323

00:49:02,069 --> 00:48:58,559

14 years old out of las cruces new

1324

00:49:04,230 --> 00:49:02,079

mexico so sophia to me is more important

1325

00:49:06,950 --> 00:49:04,240

than anyone to be a role model because

1326

00:49:09,109 --> 00:49:06,960

she's currently still a teenager

1327

00:49:11,910 --> 00:49:09,119

and having a huge impact

1328

00:49:13,670 --> 00:49:11,920

through our organization when we

1329

00:49:15,829 --> 00:49:13,680

awarded her with the youth award part of

1330

00:49:18,470 --> 00:49:15,839

it was sending out a public awareness

1331

00:49:19,829 --> 00:49:18,480

campaign based on her accomplishments

1332

00:49:21,190 --> 00:49:19,839

and on her

1333

00:49:22,470 --> 00:49:21,200

um

1334

00:49:24,549 --> 00:49:22,480

radiating

1335

00:49:27,030 --> 00:49:24,559

that possibilities that everyone she can

1336

00:49:28,230 --> 00:49:27,040

have through a natural curiosity

1337

00:49:31,349 --> 00:49:28,240

so

1338

00:49:33,589 --> 00:49:31,359

i remember setting up a a panel and i

1339

00:49:35,270 --> 00:49:33,599

had ellen ochoa on the panel

1340

00:49:37,510 --> 00:49:35,280

and i had sophia and at that time i

1341

00:49:39,349 --> 00:49:37,520

think she was 17 and elena joe of course

1342

00:49:41,190 --> 00:49:39,359

as accomplished as you can get

1343

00:49:42,950 --> 00:49:41,200

and it was interesting as she walked up

1344

00:49:44,390 --> 00:49:42,960

and said you know you're my role model

1345

00:49:45,829 --> 00:49:44,400

and i said you know it's even more

1346

00:49:47,349 --> 00:49:45,839

important that you're somebody's role

1347

00:49:49,190 --> 00:49:47,359

model right now

1348

00:49:51,190 --> 00:49:49,200

um because of everything that she's

1349

00:49:54,309 --> 00:49:51,200

accomplished we work that into our

1350

00:49:55,349 --> 00:49:54,319

programs so for instance aleda alvera

1351

00:49:56,790 --> 00:49:55,359

who's a

1352

00:49:59,190 --> 00:49:56,800

sophomore just started her sophomore

1353

00:50:02,150 --> 00:49:59,200

year at georgetown in computer science

1354

00:50:04,150 --> 00:50:02,160

and is also focusing on cyber

1355

00:50:06,710 --> 00:50:04,160

security this young ladies from rio

1356

00:50:08,710 --> 00:50:06,720

grande valley received our fellowship

1357

00:50:10,710 --> 00:50:08,720

for the video gaming then received our

1358

00:50:12,790 --> 00:50:10,720

youth award brought her up to washington

1359

00:50:14,710 --> 00:50:12,800

dc and she wants to do policy kind of

1360

00:50:16,950 --> 00:50:14,720

stem policy and computer science policy

1361

00:50:19,589 --> 00:50:16,960

well she's teaching our code as a second

1362

00:50:22,470 --> 00:50:19,599

language program in the dc area

1363

00:50:23,990 --> 00:50:22,480

at seven at 18 years old

1364

00:50:26,069 --> 00:50:24,000

and she's the one that's going from the

1365

00:50:28,470 --> 00:50:26,079

different schools and and introducing

1366

00:50:30,549 --> 00:50:28,480

kids to coding so it's really important

1367

00:50:32,150 --> 00:50:30,559

that programmatically

1368

00:50:33,190 --> 00:50:32,160

that you're out there

1369

00:50:36,710 --> 00:50:33,200

pushing

1370

00:50:38,309 --> 00:50:36,720

um the stem fields as a viable option

1371

00:50:39,670 --> 00:50:38,319

for youth and a lot of times it's really

1372

00:50:42,309 --> 00:50:39,680

important that you have somebody that's

1373

00:50:44,950 --> 00:50:42,319

near their age as much as you appreciate

1374

00:50:47,030 --> 00:50:44,960

a male 70 year old ex-engineer teaching

1375

00:50:50,470 --> 00:50:47,040

a 15-year-old girl i think it's more

1376  
00:50:52,150 --> 00:50:50,480  
important to have a 19 20 21 year old

1377  
00:50:53,670 --> 00:50:52,160  
young woman teaching

1378  
00:50:55,349 --> 00:50:53,680  
the girls about stem and that's the

1379  
00:50:56,549 --> 00:50:55,359  
importance of all of you too being

1380  
00:50:58,630 --> 00:50:56,559  
latina

1381  
00:50:59,990 --> 00:50:58,640  
uh to have that resonate

1382  
00:51:02,309 --> 00:51:00,000  
the other thing that we're doing and i

1383  
00:51:03,510 --> 00:51:02,319  
have to give credit to uh jasmine right

1384  
00:51:05,510 --> 00:51:03,520  
there um

1385  
00:51:07,750 --> 00:51:05,520  
samurano who's

1386  
00:51:10,069 --> 00:51:07,760  
oversees our programs i mean she just

1387  
00:51:12,790 --> 00:51:10,079  
developed this program where we

1388  
00:51:13,910 --> 00:51:12,800

go into 15 different communities

1389

00:51:16,230 --> 00:51:13,920

and

1390

00:51:18,549 --> 00:51:16,240

the kids actually can hack a career in

1391

00:51:20,630 --> 00:51:18,559

stem and work with experts like some of

1392

00:51:21,670 --> 00:51:20,640

you to act and with a curriculum to

1393

00:51:23,510 --> 00:51:21,680

actually

1394

00:51:25,990 --> 00:51:23,520

work through what their career looked

1395

00:51:28,790 --> 00:51:26,000

like so all of you are now going to be

1396

00:51:30,309 --> 00:51:28,800

hit on to be part of this program and

1397

00:51:32,390 --> 00:51:30,319

young people actually work through what

1398

00:51:34,470 --> 00:51:32,400

that career would look like

1399

00:51:36,870 --> 00:51:34,480

and it really lays out a path but they

1400

00:51:38,710 --> 00:51:36,880

then get to go back and do research and

1401  
00:51:40,870 --> 00:51:38,720  
see what those careers would be like and

1402  
00:51:42,630 --> 00:51:40,880  
i'm hearing that a lot in terms of the

1403  
00:51:44,870 --> 00:51:42,640  
exposure that you had luckily you were

1404  
00:51:46,470 --> 00:51:44,880  
cabeza luros and just went ahead after

1405  
00:51:48,309 --> 00:51:46,480  
somebody was trying to discourage you

1406  
00:51:50,069 --> 00:51:48,319  
but we want to make sure to encourage

1407  
00:51:52,069 --> 00:51:50,079  
and all of you play such a significant

1408  
00:51:54,630 --> 00:51:52,079  
role in doing that

1409  
00:51:57,270 --> 00:51:54,640  
and this is a great segue because these

1410  
00:51:59,430 --> 00:51:57,280  
competitions give students and the

1411  
00:52:00,950 --> 00:51:59,440  
teachers an opportunity of what it looks

1412  
00:52:03,030 --> 00:52:00,960  
in real life

1413  
00:52:05,190 --> 00:52:03,040

you can't really aspire to be a

1414

00:52:07,190 --> 00:52:05,200

scientist if you don't see what it is

1415

00:52:08,630 --> 00:52:07,200

like you can't aspire to be an engineer

1416

00:52:10,549 --> 00:52:08,640

especially when you're in high school if

1417

00:52:13,190 --> 00:52:10,559

you don't see what it's like so these

1418

00:52:15,510 --> 00:52:13,200

competitions more than just competing is

1419

00:52:17,349 --> 00:52:15,520

really helping each other

1420

00:52:19,670 --> 00:52:17,359

learning that it's an actual team

1421

00:52:22,950 --> 00:52:19,680

competition we didn't land rovers on

1422

00:52:25,430 --> 00:52:22,960

mars by one just individual it was teams

1423

00:52:27,670 --> 00:52:25,440

it was different centers so it really

1424

00:52:30,710 --> 00:52:27,680

brings that opportunity

1425

00:52:33,829 --> 00:52:30,720

to the forefront and also

1426  
00:52:36,950 --> 00:52:33,839  
makes them more secure that they can

1427  
00:52:38,630 --> 00:52:36,960  
actually do it and see other people role

1428  
00:52:40,549 --> 00:52:38,640  
models they can become role models

1429  
00:52:43,109 --> 00:52:40,559  
themselves right one of my teachers

1430  
00:52:45,750 --> 00:52:43,119  
calls it a coop petition you're

1431  
00:52:48,549 --> 00:52:45,760  
cooperating with the other teams but

1432  
00:52:49,670 --> 00:52:48,559  
it's still a competition so

1433  
00:52:52,870 --> 00:52:49,680  
as we

1434  
00:52:54,950 --> 00:52:52,880  
know that we learn different ways these

1435  
00:52:58,069 --> 00:52:54,960  
stem competitions are not so much about

1436  
00:53:01,670 --> 00:52:58,079  
competitions but about bringing what it

1437  
00:53:03,430 --> 00:53:01,680  
is like and really focusing on how we

1438  
00:53:04,950 --> 00:53:03,440

need to support each other and lift

1439

00:53:05,829 --> 00:53:04,960

everybody up

1440

00:53:07,349 --> 00:53:05,839

you know

1441

00:53:08,710 --> 00:53:07,359

time really does fly when you're having

1442

00:53:10,870 --> 00:53:08,720

fun and i know that we're reaching the

1443

00:53:12,790 --> 00:53:10,880

end of this particular segment before we

1444

00:53:15,030 --> 00:53:12,800

uh have some questions from the audience

1445

00:53:17,270 --> 00:53:15,040

and those watching on the live stream

1446

00:53:19,670 --> 00:53:17,280

but i wanted to give that last question

1447

00:53:21,990 --> 00:53:19,680

to yadi and carolina and i know that

1448

00:53:23,750 --> 00:53:22,000

yada you were the co-host for the

1449

00:53:26,069 --> 00:53:23,760

solar eclipse

1450

00:53:28,230 --> 00:53:26,079

television television program that nasa

1451  
00:53:30,790 --> 00:53:28,240  
put together and i wanted to focus in on

1452  
00:53:32,710 --> 00:53:30,800  
the communication piece uh and also

1453  
00:53:35,190 --> 00:53:32,720  
carolina right how can we be using these

1454  
00:53:38,390 --> 00:53:35,200  
different methods of communication to be

1455  
00:53:40,630 --> 00:53:38,400  
doing better outreach to inspiring folks

1456  
00:53:43,109 --> 00:53:40,640  
and to just think of new ways of really

1457  
00:53:44,790 --> 00:53:43,119  
being able to engage a young public in a

1458  
00:53:46,870 --> 00:53:44,800  
public that maybe had not thought about

1459  
00:53:48,470 --> 00:53:46,880  
science and saying whoa i can be part of

1460  
00:53:50,549 --> 00:53:48,480  
this if you could talk a little bit

1461  
00:53:52,870 --> 00:53:50,559  
about that please i would actually like

1462  
00:53:54,829 --> 00:53:52,880  
to piggyback on what you said earlier as

1463  
00:53:59,030 --> 00:53:54,839

far as being present

1464

00:54:01,510 --> 00:53:59,040

and being just

1465

00:54:04,390 --> 00:54:01,520

a person that's very approachable that

1466

00:54:07,190 --> 00:54:04,400

students can talk to and so forth

1467

00:54:08,470 --> 00:54:07,200

i find that with a lot of the university

1468

00:54:11,349 --> 00:54:08,480

students

1469

00:54:14,230 --> 00:54:11,359

when they come across a class that they

1470

00:54:16,309 --> 00:54:14,240

are now struggling with oh i guess

1471

00:54:19,750 --> 00:54:16,319

science wasn't meant for me

1472

00:54:22,630 --> 00:54:19,760

they don't hear enough

1473

00:54:25,910 --> 00:54:22,640

how many times as an accomplished

1474

00:54:29,030 --> 00:54:27,510

take a class over

1475

00:54:32,230 --> 00:54:29,040

you know how many

1476

00:54:35,270 --> 00:54:32,240

parties they may have missed how much

1477

00:54:38,230 --> 00:54:35,280

work they didn't get to do and the real

1478

00:54:40,069 --> 00:54:38,240

issue is many of the students that i

1479

00:54:44,549 --> 00:54:40,079

work with

1480

00:54:47,510 --> 00:54:44,559

it's again it's a it's a trade-off

1481

00:54:50,230 --> 00:54:47,520

if i am putting this much time and

1482

00:54:53,109 --> 00:54:50,240

energy into my school

1483

00:54:56,069 --> 00:54:53,119

how do i have time and energy for this

1484

00:54:58,630 --> 00:54:56,079

part-time job that i absolutely need

1485

00:55:00,710 --> 00:54:58,640

because i don't have gas in my car i

1486

00:55:01,589 --> 00:55:00,720

cannot get to school without gas in my

1487

00:55:02,390 --> 00:55:01,599

car

1488

00:55:05,109 --> 00:55:02,400

so

1489

00:55:08,789 --> 00:55:05,119

i see that students are

1490

00:55:12,309 --> 00:55:08,799

are trying to balance these items and so

1491

00:55:16,710 --> 00:55:12,319

i um i think that the communication

1492

00:55:19,109 --> 00:55:16,720

to them is extremely important and

1493

00:55:21,190 --> 00:55:19,119

the trust it's not only to the students

1494

00:55:23,349 --> 00:55:21,200

but to their parents

1495

00:55:25,270 --> 00:55:23,359

they have to trust

1496

00:55:27,430 --> 00:55:25,280

that this is all going to be worth it

1497

00:55:29,430 --> 00:55:27,440

and i think that a lot of what you do

1498

00:55:32,870 --> 00:55:29,440

and being very present for the students

1499

00:55:34,309 --> 00:55:32,880

is extremely important thank you

1500

00:55:35,750 --> 00:55:34,319

and it's a different environment right

1501  
00:55:38,230 --> 00:55:35,760  
high school is very different than you

1502  
00:55:39,910 --> 00:55:38,240  
go to college and i mean it's like the

1503  
00:55:42,470 --> 00:55:39,920  
trade-off of the work that you have to

1504  
00:55:44,470 --> 00:55:42,480  
do is super different and some kids just

1505  
00:55:46,150 --> 00:55:44,480  
get shocked by that and they have to

1506  
00:55:49,670 --> 00:55:46,160  
understand that you have to work hard if

1507  
00:55:51,270 --> 00:55:49,680  
what to do what you really love to do um

1508  
00:55:52,710 --> 00:55:51,280  
talking about the clips one of the

1509  
00:55:54,870 --> 00:55:52,720  
things that was

1510  
00:55:56,710 --> 00:55:54,880  
that i did very interesting but i really

1511  
00:55:57,910 --> 00:55:56,720  
wanted people to know that i was from

1512  
00:56:01,190 --> 00:55:57,920  
puerto rico

1513  
00:56:03,750 --> 00:56:01,200

i actually were a teacher that was from

1514

00:56:05,990 --> 00:56:03,760

my university and i had the logo of the

1515

00:56:08,870 --> 00:56:06,000

university of puerto rico

1516

00:56:10,549 --> 00:56:08,880

um and the thing is that i innocently

1517

00:56:12,150 --> 00:56:10,559

right i i thought oh yeah the university

1518

00:56:14,549 --> 00:56:12,160

is going to find out in a couple days

1519

00:56:17,589 --> 00:56:14,559

that i wore the shirt

1520

00:56:19,829 --> 00:56:17,599

while i was there doing the tv show my

1521

00:56:22,950 --> 00:56:19,839

phone didn't stop vibrating

1522

00:56:24,549 --> 00:56:22,960

and it was all people from maya west

1523

00:56:26,789 --> 00:56:24,559

sending texts to

1524

00:56:29,190 --> 00:56:26,799

friends that friends that knew me and

1525

00:56:31,589 --> 00:56:29,200

then my friends were texting me and like

1526

00:56:34,230 --> 00:56:31,599

my facebook account was you know

1527

00:56:36,710 --> 00:56:34,240

bombarded with posts and it was amazing

1528

00:56:38,549 --> 00:56:36,720

and i i thought wow i i knew that it was

1529

00:56:40,789 --> 00:56:38,559

going to be an impact but i didn't

1530

00:56:43,750 --> 00:56:40,799

expect it to be that big

1531

00:56:45,030 --> 00:56:43,760

and it's because i took the opportunity

1532

00:56:48,150 --> 00:56:45,040

that i had

1533

00:56:50,309 --> 00:56:48,160

being in a tv show right to say i am

1534

00:56:53,270 --> 00:56:50,319

here you can also be here

1535

00:56:55,510 --> 00:56:53,280

um but like i said it was an amazing and

1536

00:56:56,549 --> 00:56:55,520

unexpected reaction

1537

00:56:59,030 --> 00:56:56,559

wonderful

1538

00:57:02,309 --> 00:56:59,040

well um we definitely want to give the

1539

00:57:04,710 --> 00:57:02,319

audience uh both here and watching uh on

1540

00:57:07,109 --> 00:57:04,720

live stream to be able to participate in

1541

00:57:08,710 --> 00:57:07,119

this conversation so uh there's a mic

1542

00:57:10,950 --> 00:57:08,720

going around if there are any questions

1543

00:57:13,030 --> 00:57:10,960

if you could please raise your hand and

1544

00:57:14,870 --> 00:57:13,040

we'll make sure that the mic goes to you

1545

00:57:16,870 --> 00:57:14,880

uh and if they're

1546

00:57:18,309 --> 00:57:16,880

i see one in the back hi and thank you

1547

00:57:21,030 --> 00:57:18,319

again for the panel it was very very

1548

00:57:22,630 --> 00:57:21,040

interesting um i want to follow up on a

1549

00:57:25,910 --> 00:57:22,640

couple of things that you've all

1550

00:57:27,510 --> 00:57:25,920

mentioned um and specifically tony uh

1551  
00:57:29,430 --> 00:57:27,520  
making the point of the million dollar

1552  
00:57:30,470 --> 00:57:29,440  
job on stems

1553  
00:57:32,309 --> 00:57:30,480  
um

1554  
00:57:35,270 --> 00:57:32,319  
i think it's important and i want your

1555  
00:57:37,670 --> 00:57:35,280  
opinion to give kids choices

1556  
00:57:39,349 --> 00:57:37,680  
so it was very interesting how elvis

1557  
00:57:41,349 --> 00:57:39,359  
asked me as i what i need to do when

1558  
00:57:42,789 --> 00:57:41,359  
you've got an answer saying well you

1559  
00:57:45,270 --> 00:57:42,799  
need to follow a curriculum and you had

1560  
00:57:50,069 --> 00:57:45,280  
no idea what a curriculum was

1561  
00:57:54,390 --> 00:57:52,230  
what is your opinion on when you're

1562  
00:57:56,150 --> 00:57:54,400  
doing these presentations to kids

1563  
00:57:57,670 --> 00:57:56,160

to provide them with a wide array of

1564

00:57:59,270 --> 00:57:57,680

options that

1565

00:58:01,670 --> 00:57:59,280

range from

1566

00:58:04,390 --> 00:58:01,680

just doing like a two-year tech

1567

00:58:07,030 --> 00:58:04,400

all the way through phds because

1568

00:58:08,470 --> 00:58:07,040

in each of those steps you have

1569

00:58:09,750 --> 00:58:08,480

you can tap into

1570

00:58:13,030 --> 00:58:09,760

different

1571

00:58:15,109 --> 00:58:13,040

workforces and so maybe a phd is not for

1572

00:58:18,069 --> 00:58:15,119

everybody and maybe a two-year degree is

1573

00:58:20,630 --> 00:58:18,079

not for everybody but when they

1574

00:58:23,910 --> 00:58:20,640

have their eye on nasa what is the range

1575

00:58:28,390 --> 00:58:26,950

access to get a job um because the

1576

00:58:29,670 --> 00:58:28,400

question that you get in high school how

1577

00:58:31,910 --> 00:58:29,680

much money am i going to make it's a

1578

00:58:33,589 --> 00:58:31,920

very real question kids are going to

1579

00:58:35,910 --> 00:58:33,599

have to pay for college if they want to

1580

00:58:38,309 --> 00:58:35,920

go to college is it worth it

1581

00:58:40,870 --> 00:58:38,319

i am a scientist i'm a phd and i find it

1582

00:58:43,030 --> 00:58:40,880

sometimes hard to encourage especially

1583

00:58:45,990 --> 00:58:43,040

young women

1584

00:58:48,390 --> 00:58:46,000

to pursue a phd and i

1585

00:58:49,829 --> 00:58:48,400

am compelled to tell them how

1586

00:58:52,069 --> 00:58:49,839

what are the challenges they're gonna

1587

00:58:54,230 --> 00:58:52,079

find and i think if a person is very is

1588

00:58:55,750 --> 00:58:54,240

really truly inspired and that is what

1589

00:58:58,630 --> 00:58:55,760

they want to do they will follow their

1590

00:59:00,309 --> 00:58:58,640

dream um but it is i find it that we

1591

00:59:02,390 --> 00:59:00,319

need to be honest with them and let them

1592

00:59:03,430 --> 00:59:02,400

know look these are the challenges that

1593

00:59:05,030 --> 00:59:03,440

you're gonna have that you're going to

1594

00:59:07,109 --> 00:59:05,040

find you're not going to be rich you're

1595

00:59:09,109 --> 00:59:07,119

not going to be poor but this is your

1596

00:59:11,109 --> 00:59:09,119

spectrum so i want to hear your opinion

1597

00:59:14,150 --> 00:59:11,119

on what are the dangers or what are the

1598

00:59:17,510 --> 00:59:14,160

pros and cons between um of

1599

00:59:18,549 --> 00:59:17,520

starting to give kids this information

1600

00:59:20,069 --> 00:59:18,559

um

1601

00:59:22,309 --> 00:59:20,079

like you said there's

1602

00:59:25,030 --> 00:59:22,319

pros and cons right to telling the

1603

00:59:26,950 --> 00:59:25,040

information about that's challenges like

1604

00:59:29,109 --> 00:59:26,960

when you say a kid say i want to be a

1605

00:59:31,270 --> 00:59:29,119

scientist then you have to tell them

1606

00:59:33,430 --> 00:59:31,280

that you need a phd to be a scientist

1607

00:59:35,670 --> 00:59:33,440

and probably you'll be at school longer

1608

00:59:37,750 --> 00:59:35,680

that if you want to be an engineer

1609

00:59:40,870 --> 00:59:37,760

but you also have to give them that

1610

00:59:42,630 --> 00:59:40,880

diverse you know curriculum like you you

1611

00:59:44,309 --> 00:59:42,640

want to be scientists then yes you can

1612

00:59:46,150 --> 00:59:44,319

do this but also

1613

00:59:48,230 --> 00:59:46,160

you can also do some kind of scientists

1614

00:59:50,630 --> 00:59:48,240

you do a lot of math like you give them

1615

00:59:52,870 --> 00:59:50,640

that kind of like introduction to the

1616

00:59:54,390 --> 00:59:52,880

reality of things right and engineers

1617

00:59:57,349 --> 00:59:54,400

work with scientists all the time and

1618

00:59:59,829 --> 00:59:57,359

vice versa that's how nasa is built

1619

01:00:02,390 --> 00:59:59,839

um and not only that people also think

1620

01:00:04,549 --> 01:00:02,400

that nasa is composed by only scientists

1621

01:00:06,630 --> 01:00:04,559

engineers that's wrong there's a lot of

1622

01:00:08,549 --> 01:00:06,640

business administration people here and

1623

01:00:10,549 --> 01:00:08,559

a lot of people don't know that and

1624

01:00:13,430 --> 01:00:10,559

that's also another opportunity for them

1625

01:00:16,150 --> 01:00:13,440

to come to work with nasa without people

1626

01:00:17,430 --> 01:00:16,160

controlling and having that kind of

1627

01:00:19,270 --> 01:00:17,440

ability to

1628

01:00:21,030 --> 01:00:19,280

do the management of the projects

1629

01:00:22,789 --> 01:00:21,040

scientists engineers wouldn't be able to

1630

01:00:25,430 --> 01:00:22,799

put things out there right we need

1631

01:00:28,789 --> 01:00:25,440

everybody working together

1632

01:00:31,430 --> 01:00:28,799

i also tell them my story like it wasn't

1633

01:00:34,470 --> 01:00:31,440

i left my island to come here to do my

1634

01:00:36,789 --> 01:00:34,480

phd and i had a master's physics masters

1635

01:00:39,109 --> 01:00:36,799

from university of puerto rico

1636

01:00:41,430 --> 01:00:39,119

but i wanted to be a scientist so i had

1637

01:00:43,670 --> 01:00:41,440

to have my phd so i had to leave my

1638

01:00:46,150 --> 01:00:43,680

island not only that i had to go back

1639

01:00:48,549 --> 01:00:46,160

and forth because i was in a program

1640

01:00:51,270 --> 01:00:48,559

and every time i did that i had to rent

1641

01:00:53,829 --> 01:00:51,280

furniture you know move around all the

1642

01:00:54,710 --> 01:00:53,839

time so it wasn't an easy journey so i

1643

01:00:57,030 --> 01:00:54,720

think

1644

01:00:58,789 --> 01:00:57,040

like i said you know being personal tell

1645

01:01:00,950 --> 01:00:58,799

them your own journey so they know it's

1646

01:01:03,270 --> 01:01:00,960

not going to be easy and also give them

1647

01:01:05,589 --> 01:01:03,280

that diverse curriculum like you can be

1648

01:01:08,870 --> 01:01:05,599

all of this to work for nasa i think it

1649

01:01:11,510 --> 01:01:08,880

helps can i answer that too uh and i

1650

01:01:13,589 --> 01:01:11,520

have to go back to my own kids

1651  
01:01:14,870 --> 01:01:13,599  
because i mean you want to give just you

1652  
01:01:16,230 --> 01:01:14,880  
want to treat these kids and give them

1653  
01:01:17,030 --> 01:01:16,240  
the same advice that you will give your

1654  
01:01:20,950 --> 01:01:17,040  
own

1655  
01:01:22,069 --> 01:01:20,960  
oldest son is on his third year on his

1656  
01:01:23,030 --> 01:01:22,079  
phd

1657  
01:01:25,109 --> 01:01:23,040  
and

1658  
01:01:26,630 --> 01:01:25,119  
he has an undergraduate in psychology

1659  
01:01:28,470 --> 01:01:26,640  
and when he said he was going to be a

1660  
01:01:29,829 --> 01:01:28,480  
psychologist you know we just kind of my

1661  
01:01:31,349 --> 01:01:29,839  
husband is a physicist and i'm an

1662  
01:01:33,270 --> 01:01:31,359  
engineer you know and

1663  
01:01:35,109 --> 01:01:33,280

but you know he he decided he wanted to

1664

01:01:37,349 --> 01:01:35,119

he doesn't want to be a doctor and you

1665

01:01:38,870 --> 01:01:37,359

know we try to give him the best honest

1666

01:01:40,870 --> 01:01:38,880

advice that we could you know it wasn't

1667

01:01:42,630 --> 01:01:40,880

going to be easy if you really wanted to

1668

01:01:44,470 --> 01:01:42,640

do something with psychology he had to

1669

01:01:46,549 --> 01:01:44,480

go for an advanced degree and this is

1670

01:01:48,470 --> 01:01:46,559

you know what you do and he did his

1671

01:01:50,710 --> 01:01:48,480

research and he chose to

1672

01:01:51,829 --> 01:01:50,720

get a phd in cognitive systems which is

1673

01:01:53,349 --> 01:01:51,839

sort of like the marriage between

1674

01:01:55,270 --> 01:01:53,359

computers and the brain and don't ask me

1675

01:01:56,870 --> 01:01:55,280

what he's doing now but

1676

01:01:58,950 --> 01:01:56,880

uh and my youngest is different you know

1677

01:02:00,069 --> 01:01:58,960

the kids are all different and you know

1678

01:02:01,589 --> 01:02:00,079

so you

1679

01:02:03,750 --> 01:02:01,599

sometimes you want to give them the best

1680

01:02:04,950 --> 01:02:03,760

advice and the best honest advice but

1681

01:02:06,390 --> 01:02:04,960

again you know going back to the

1682

01:02:08,549 --> 01:02:06,400

mentoring you know

1683

01:02:10,710 --> 01:02:08,559

help them form their own opinions and

1684

01:02:11,910 --> 01:02:10,720

how it's going to work for them because

1685

01:02:13,510 --> 01:02:11,920

i mean i know my kids and i know what

1686

01:02:14,870 --> 01:02:13,520

kind of advice i can give them because i

1687

01:02:17,430 --> 01:02:14,880

know them but i don't know all of these

1688

01:02:18,870 --> 01:02:17,440

kids and you have to extract all that

1689

01:02:20,549 --> 01:02:18,880

from them so they can form their own

1690

01:02:22,230 --> 01:02:20,559

ideas as to what is it that they how

1691

01:02:24,549 --> 01:02:22,240

hard they want to work do they really

1692

01:02:26,390 --> 01:02:24,559

have what it takes to get a phd or not

1693

01:02:28,630 --> 01:02:26,400

does it really you know do they really

1694

01:02:30,950 --> 01:02:28,640

have you know want to be a an engineer

1695

01:02:32,870 --> 01:02:30,960

or or a scientist or a mathematician

1696

01:02:34,390 --> 01:02:32,880

some of them are really good musicians

1697

01:02:35,670 --> 01:02:34,400

and that's all they want to do and it

1698

01:02:37,349 --> 01:02:35,680

doesn't matter you know what you tell

1699

01:02:39,190 --> 01:02:37,359

them they are not going to go in all

1700

01:02:41,190 --> 01:02:39,200

these careers you know but you want them

1701

01:02:42,710 --> 01:02:41,200

to really pursue their passion and do

1702

01:02:45,670 --> 01:02:42,720

something with their lives and and be

1703

01:02:48,309 --> 01:02:45,680

productive members of society so um

1704

01:02:50,230 --> 01:02:48,319

so i would like to add something a

1705

01:02:52,950 --> 01:02:50,240

little bit different i think you know in

1706

01:02:56,150 --> 01:02:52,960

options there's also the power of

1707

01:02:58,710 --> 01:02:56,160

collaborations because we at nasa we

1708

01:03:00,950 --> 01:02:58,720

have a lot of areas that we influence in

1709

01:03:03,750 --> 01:03:00,960

term of technology but sometimes it's

1710

01:03:06,549 --> 01:03:03,760

difficult difficult for us to translate

1711

01:03:08,950 --> 01:03:06,559

that to students so i think that's the

1712

01:03:12,710 --> 01:03:08,960

power of relationship you know with

1713

01:03:15,190 --> 01:03:12,720

universities with our k-12 uh with

1714

01:03:17,510 --> 01:03:15,200

organizations non-profit organizations

1715

01:03:20,069 --> 01:03:17,520

that really get the message out we can't

1716

01:03:23,029 --> 01:03:20,079

take the message to some level but i

1717

01:03:25,430 --> 01:03:23,039

think we need that uh bridge to make

1718

01:03:27,190 --> 01:03:25,440

sure to provide the options in a way

1719

01:03:28,870 --> 01:03:27,200

that they understand i think you know i

1720

01:03:30,230 --> 01:03:28,880

resonate with the curriculum right we

1721

01:03:32,309 --> 01:03:30,240

talk about curriculum like something

1722

01:03:33,910 --> 01:03:32,319

that everybody knows well sometimes

1723

01:03:36,309 --> 01:03:33,920

that's the first question what is the

1724

01:03:38,230 --> 01:03:36,319

curriculum right so i think we need to

1725

01:03:41,109 --> 01:03:38,240

establish that relationship to do the

1726

01:03:43,510 --> 01:03:41,119

translation and really be able to reach

1727

01:03:45,430 --> 01:03:43,520

out to that population and i think it's

1728

01:03:48,950 --> 01:03:45,440

really powerful as we talk about role

1729

01:03:52,309 --> 01:03:48,960

models that rarely is it a a straight

1730

01:03:54,710 --> 01:03:52,319

narrow path it's always sick sagging you

1731

01:03:56,630 --> 01:03:54,720

go to over here you go over there and at

1732

01:03:58,789 --> 01:03:56,640

the end it all makes sense like i

1733

01:04:01,190 --> 01:03:58,799

studied music then i studied chemistry

1734

01:04:04,470 --> 01:04:01,200

then i'm in education but now it all

1735

01:04:08,069 --> 01:04:04,480

makes sense and rarely is it straight

1736

01:04:09,750 --> 01:04:08,079

and i think that is very um can depress

1737

01:04:12,789 --> 01:04:09,760

people thinking that it's a straight

1738

01:04:13,510 --> 01:04:12,799

path and that's not the reality bring

1739

01:04:18,069 --> 01:04:13,520

the

1740

01:04:19,750 --> 01:04:18,079

opportunities that you'll need for that

1741

01:04:21,589 --> 01:04:19,760

future you

1742

01:04:24,829 --> 01:04:21,599

and i know that we have a question from

1743

01:04:27,349 --> 01:04:24,839

uh our live stream audience so maria

1744

01:04:30,150 --> 01:04:27,359

please actually this is a question for

1745

01:04:34,630 --> 01:04:31,990

thank you

1746

01:04:36,309 --> 01:04:34,640

so i just wanted to

1747

01:04:38,230 --> 01:04:36,319

we're talking about getting kids

1748

01:04:39,750 --> 01:04:38,240

encouraged and motivating and

1749

01:04:42,230 --> 01:04:39,760

so on and so forth but i think it's also

1750

01:04:44,710 --> 01:04:42,240

very important for them to empower

1751

01:04:46,390 --> 01:04:44,720

themselves through research right uh you

1752

01:04:49,190 --> 01:04:46,400

find everything online

1753

01:04:51,750 --> 01:04:49,200

nasa we have unlimited resources online

1754

01:04:53,670 --> 01:04:51,760

um in terms of getting a career somebody

1755

01:04:54,549 --> 01:04:53,680

asked well how do you get them in the

1756

01:04:56,630 --> 01:04:54,559

door

1757

01:04:58,390 --> 01:04:56,640

first of all once they you know we have

1758

01:05:00,549 --> 01:04:58,400

to be very involved in the communities

1759

01:05:02,069 --> 01:05:00,559

and the colleges and universities we

1760

01:05:04,230 --> 01:05:02,079

have to be planting those seeds and

1761

01:05:05,589 --> 01:05:04,240

harvest so that we can then harvest them

1762

01:05:07,430 --> 01:05:05,599

right

1763

01:05:09,430 --> 01:05:07,440

the way to bring them into the workforce

1764

01:05:10,470 --> 01:05:09,440

is for them to become as competitive as

1765

01:05:12,549 --> 01:05:10,480

possible

1766

01:05:15,029 --> 01:05:12,559

so

1767

01:05:18,549 --> 01:05:15,039

just empower yourself through research

1768

01:05:20,710 --> 01:05:18,559

find out what it takes to obtain a job

1769

01:05:22,470 --> 01:05:20,720

learn about our different centers

1770

01:05:25,270 --> 01:05:22,480

the different opportunities we have we

1771

01:05:28,950 --> 01:05:25,280

have opportunities across the board from

1772

01:05:30,230 --> 01:05:28,960

administration to science engineering um

1773

01:05:33,430 --> 01:05:30,240

you know

1774

01:05:35,190 --> 01:05:33,440

from a through z we have careers so

1775

01:05:36,470 --> 01:05:35,200

yes you can be a scientist yes you can

1776

01:05:38,390 --> 01:05:36,480

be an engineer but you can also be an

1777

01:05:40,950 --> 01:05:38,400

accountant you can be

1778

01:05:42,630 --> 01:05:40,960

a procurement analyst you can be

1779

01:05:44,789 --> 01:05:42,640

so on and so forth you know what i mean

1780

01:05:47,990 --> 01:05:44,799

but i did want to ask a question going

1781

01:05:49,109 --> 01:05:48,000

into the career path my question is for

1782

01:05:50,549 --> 01:05:49,119

dr

1783

01:05:51,270 --> 01:05:50,559

uh marla

1784

01:05:53,349 --> 01:05:51,280

so

1785

01:05:55,270 --> 01:05:53,359

once you have those individuals in the

1786

01:05:56,950 --> 01:05:55,280

career pipeline

1787

01:05:58,710 --> 01:05:56,960

you as a

1788

01:06:00,950 --> 01:05:58,720

the deputy director of our glenn

1789

01:06:03,430 --> 01:06:00,960

research center what do you look for

1790

01:06:04,630 --> 01:06:03,440

when you're looking for talent for

1791

01:06:05,829 --> 01:06:04,640

workforce

1792

01:06:11,109 --> 01:06:05,839

how do you

1793

01:06:13,829 --> 01:06:11,119

grow your workforce

1794

01:06:16,230 --> 01:06:13,839

so um that's an excellent question you

1795

01:06:18,150 --> 01:06:16,240

know one thing is bring people right we

1796

01:06:20,549 --> 01:06:18,160

talk about that on top potential we

1797

01:06:22,870 --> 01:06:20,559

bring the potential here so now we have

1798

01:06:25,349 --> 01:06:22,880

a responsibility to make sure that we

1799

01:06:26,870 --> 01:06:25,359

provide that career growth so a couple

1800

01:06:28,630 --> 01:06:26,880

of things that we haven't talked about

1801

01:06:31,190 --> 01:06:28,640

diversity and inclusion we talk a lot

1802

01:06:32,390 --> 01:06:31,200

about diversity that's great but we also

1803

01:06:34,870 --> 01:06:32,400

have to take

1804

01:06:37,510 --> 01:06:34,880

steps toward inclusion and that's where

1805

01:06:40,069 --> 01:06:37,520

really you develop the people skills and

1806

01:06:43,349 --> 01:06:40,079

knowledge so there's two two ways to

1807

01:06:46,230 --> 01:06:43,359

treat again here one is the organization

1808

01:06:47,990 --> 01:06:46,240

has a responsibility to foster diversity

1809

01:06:51,349 --> 01:06:48,000

and inclusion and environment that

1810

01:06:53,430 --> 01:06:51,359

really promote and foster you got to

1811

01:06:56,230 --> 01:06:53,440

develop yourself and then there's the

1812

01:06:57,829 --> 01:06:56,240

individual responsibility sometimes you

1813

01:06:59,430 --> 01:06:57,839

know we get the same way like we're

1814

01:07:00,710 --> 01:06:59,440

going through high school it's like a

1815

01:07:03,029 --> 01:07:00,720

cycle

1816

01:07:04,789 --> 01:07:03,039

we get discouraged there's frustration

1817

01:07:06,789 --> 01:07:04,799

in the workplace it's not like you get

1818

01:07:08,630 --> 01:07:06,799

in the workplace and everything is great

1819

01:07:10,870 --> 01:07:08,640

there's going to be challenges so you

1820

01:07:13,029 --> 01:07:10,880

have to have to learn about those

1821

01:07:15,430 --> 01:07:13,039

challenges and trying to figure out

1822

01:07:18,230 --> 01:07:15,440

where's your path within your career

1823

01:07:21,109 --> 01:07:18,240

because not everybody wants to be you

1824

01:07:23,270 --> 01:07:21,119

know a phd scientist right some people

1825

01:07:24,069 --> 01:07:23,280

are okay they get their undergrad they

1826

01:07:26,069 --> 01:07:24,079

get

1827

01:07:27,109 --> 01:07:26,079

outstanding contributions to the nasa

1828

01:07:29,190 --> 01:07:27,119

mission

1829

01:07:31,829 --> 01:07:29,200

there's other individuals that have this

1830

01:07:33,990 --> 01:07:31,839

need to continue their development and i

1831

01:07:36,470 --> 01:07:34,000

really think that that is really very

1832

01:07:39,750 --> 01:07:36,480

critical having that

1833

01:07:42,309 --> 01:07:39,760

self-motivation self-awareness to grow

1834

01:07:45,510 --> 01:07:42,319

with your career because things change

1835

01:07:47,589 --> 01:07:45,520

you have to adapt and you have to

1836

01:07:48,630 --> 01:07:47,599

strive to be better than what you are

1837

01:07:50,390 --> 01:07:48,640

today

1838

01:07:51,750 --> 01:07:50,400

but there's also the organization

1839

01:07:55,029 --> 01:07:51,760

components

1840

01:07:57,670 --> 01:07:55,039

anyone that has a position also is in

1841

01:08:01,029 --> 01:07:57,680

the leadership position as a leader you

1842

01:08:03,430 --> 01:08:01,039

have to make sure that you recognize

1843

01:08:05,109 --> 01:08:03,440

that you also influence the environment

1844

01:08:06,950 --> 01:08:05,119

and you have to have an environment that

1845

01:08:08,789 --> 01:08:06,960

is inclusive you have to have an

1846

01:08:11,270 --> 01:08:08,799

environment that you

1847

01:08:13,029 --> 01:08:11,280

reward people for their development i

1848

01:08:15,510 --> 01:08:13,039

think that's how we make sure that we

1849

01:08:18,070 --> 01:08:15,520

continue the career development so it's

1850

01:08:19,189 --> 01:08:18,080

both ways individual and organization

1851  
01:08:20,870 --> 01:08:19,199  
thank you and i know that we have an

1852  
01:08:22,630 --> 01:08:20,880  
online question

1853  
01:08:24,309 --> 01:08:22,640  
yes good morning so we've had some

1854  
01:08:25,590 --> 01:08:24,319  
really good comments on there that we'll

1855  
01:08:27,669 --> 01:08:25,600  
happy to share with you but one

1856  
01:08:30,789 --> 01:08:27,679  
particular question is for the entire

1857  
01:08:32,390 --> 01:08:30,799  
panel but in particular for dr carolina

1858  
01:08:34,390 --> 01:08:32,400  
what would be your advice for young

1859  
01:08:37,030 --> 01:08:34,400  
people who find that they have family

1860  
01:08:38,870 --> 01:08:37,040  
pressure to stay near their other family

1861  
01:08:40,950 --> 01:08:38,880  
because as latinos and immigrants in

1862  
01:08:42,390 --> 01:08:40,960  
general we culturally experience

1863  
01:08:44,870 --> 01:08:42,400

pressure to stay near our families

1864

01:08:47,590 --> 01:08:44,880

regardless of local opportunity and this

1865

01:08:49,430 --> 01:08:47,600

came in from doris online

1866

01:08:50,630 --> 01:08:49,440

thank you

1867

01:08:55,269 --> 01:08:50,640

that's

1868

01:08:59,030 --> 01:08:55,279

a very real and daily occurrence

1869

01:09:01,189 --> 01:08:59,040

at the campus that i work at and that at

1870

01:09:02,470 --> 01:09:01,199

actually all of the campuses that i've

1871

01:09:04,950 --> 01:09:02,480

been on

1872

01:09:13,030 --> 01:09:08,149

it is a big scary world and if you're

1873

01:09:14,470 --> 01:09:13,040

coming from a family or a community

1874

01:09:16,470 --> 01:09:14,480

where

1875

01:09:18,229 --> 01:09:16,480

resources are scarce

1876

01:09:19,590 --> 01:09:18,239  
and i know that is the case with

1877

01:09:20,550 --> 01:09:19,600  
everyone

1878

01:09:22,870 --> 01:09:20,560  
here

1879

01:09:23,590 --> 01:09:22,880  
speaking and hearing about your stories

1880

01:09:24,709 --> 01:09:23,600  
but

1881

01:09:27,430 --> 01:09:24,719  
from

1882

01:09:30,470 --> 01:09:27,440  
a rural community when your presence is

1883

01:09:32,870 --> 01:09:30,480  
needed nearby to assist the family or to

1884

01:09:34,390 --> 01:09:32,880  
be part of that community while you're

1885

01:09:35,910 --> 01:09:34,400  
going to school

1886

01:09:39,510 --> 01:09:35,920  
there's a lot of pressure on these

1887

01:09:42,229 --> 01:09:39,520  
students and the thought of leaving

1888

01:09:44,870 --> 01:09:42,239

the state to go

1889

01:09:47,030 --> 01:09:44,880

to an internship even to be gone for a

1890

01:09:50,789 --> 01:09:47,040

whole summer

1891

01:09:52,070 --> 01:09:50,799

that is a very big ordeal for the family

1892

01:09:56,790 --> 01:09:52,080

because

1893

01:09:59,750 --> 01:09:56,800

they may not have the funds to

1894

01:10:01,590 --> 01:09:59,760

purchase even clothing and

1895

01:10:03,910 --> 01:10:01,600

airline tickets so that you can

1896

01:10:06,470 --> 01:10:03,920

participate in the internship and so

1897

01:10:08,310 --> 01:10:06,480

oftentimes students are

1898

01:10:11,430 --> 01:10:08,320

discouraged

1899

01:10:13,270 --> 01:10:11,440

in uh taking advantage of opportunities

1900

01:10:14,830 --> 01:10:13,280

that would be game changers in their

1901

01:10:18,229 --> 01:10:14,840

life and in their

1902

01:10:20,470 --> 01:10:18,239

career and their families are afraid of

1903

01:10:23,430 --> 01:10:20,480

losing them their families are afraid of

1904

01:10:25,830 --> 01:10:23,440

what might happen to them out there

1905

01:10:28,630 --> 01:10:25,840

and that they would not be there to

1906

01:10:31,030 --> 01:10:28,640

support them so those are very real and

1907

01:10:34,229 --> 01:10:31,040

the way that that

1908

01:10:36,950 --> 01:10:34,239

those can be overcome is one by building

1909

01:10:39,510 --> 01:10:36,960

confidence with the families

1910

01:10:41,270 --> 01:10:39,520

so that means that here's a

1911

01:10:44,630 --> 01:10:41,280

college student

1912

01:10:46,950 --> 01:10:44,640

and it's 22 years old and wants to go on

1913

01:10:48,950 --> 01:10:46,960

an internship that might mean that i'm

1914

01:10:51,030 --> 01:10:48,960

talking to

1915

01:10:53,669 --> 01:10:51,040

the student's parents

1916

01:10:55,750 --> 01:10:53,679

that might mean that i'm talking to

1917

01:10:59,270 --> 01:10:55,760

family and trying to build their

1918

01:11:01,590 --> 01:10:59,280

confidence and coaching the student

1919

01:11:03,110 --> 01:11:01,600

on what they can tell their family and

1920

01:11:04,550 --> 01:11:03,120

how they can

1921

01:11:06,950 --> 01:11:04,560

come up with

1922

01:11:08,950 --> 01:11:06,960

making ends meet to be able to take

1923

01:11:10,790 --> 01:11:08,960

advantage of internships or going on to

1924

01:11:13,430 --> 01:11:10,800

graduate school

1925

01:11:15,350 --> 01:11:13,440

i was a director of iran d mcnaair

1926

01:11:17,990 --> 01:11:15,360

program and one of the key components

1927

01:11:20,390 --> 01:11:18,000

with that program was to have the

1928

01:11:23,030 --> 01:11:20,400

students do undergraduate research

1929

01:11:24,310 --> 01:11:23,040

and then take their research and present

1930

01:11:26,390 --> 01:11:24,320

it

1931

01:11:28,630 --> 01:11:26,400

out of state at a conference

1932

01:11:31,350 --> 01:11:28,640

when i traveled with these students many

1933

01:11:33,910 --> 01:11:31,360

of them had never been on an airplane

1934

01:11:35,750 --> 01:11:33,920

they had never been in an airport

1935

01:11:36,870 --> 01:11:35,760

that had a moving sidewalk oh my

1936

01:11:37,590 --> 01:11:36,880

goodness

1937

01:11:39,189 --> 01:11:37,600

so

1938

01:11:42,070 --> 01:11:39,199

but yet they were

1939

01:11:43,270 --> 01:11:42,080

very well educated students were

1940

01:11:45,430 --> 01:11:43,280

brilliant

1941

01:11:48,470 --> 01:11:45,440

so it's those experiences that make a

1942

01:11:49,750 --> 01:11:48,480

difference and all i can say to

1943

01:11:54,310 --> 01:11:49,760

our

1944

01:11:56,950 --> 01:11:54,320

you just have to build their confidence

1945

01:11:58,550 --> 01:11:56,960

that it will be okay and

1946

01:12:00,709 --> 01:11:58,560

the little things that seem like

1947

01:12:02,630 --> 01:12:00,719

barriers they're not that much

1948

01:12:03,830 --> 01:12:02,640

we can find a way past that barrier

1949

01:12:04,950 --> 01:12:03,840

because guess what there'll be another

1950

01:12:07,750 --> 01:12:04,960

one down the road and now you'll know

1951

01:12:10,070 --> 01:12:07,760

how to solve that one too

1952

01:12:11,910 --> 01:12:10,080

well folks um unfortunately the time has

1953

01:12:14,310 --> 01:12:11,920

come for us to really begin wrapping up

1954

01:12:16,149 --> 01:12:14,320

this segment of the program so we wanted

1955

01:12:22,970 --> 01:12:16,159

to number one thank our distinguished

1956

01:12:27,189 --> 01:12:24,550

[Applause]

1957

01:12:29,350 --> 01:12:27,199

their time and dedication um you all are

1958

01:12:31,669 --> 01:12:29,360

amazing heroes and i applaud you for the

1959

01:12:33,990 --> 01:12:31,679

work that you're doing and continue um

1960

01:12:36,709 --> 01:12:34,000

and for the rest of us here um how can

1961

01:12:38,790 --> 01:12:36,719

we really stem up right what what can we

1962

01:12:41,030 --> 01:12:38,800

be doing to help each other out what can

1963

01:12:43,030 --> 01:12:41,040

we doing to inspire each other and what

1964

01:12:45,669 --> 01:12:43,040

can we be really doing to keep on

1965

01:12:46,630 --> 01:12:45,679

dreaming right because dreams do come

1966

01:12:48,790 --> 01:12:46,640

true

1967

01:12:50,709 --> 01:12:48,800

um so thank you very much for everybody

1968

01:12:53,350 --> 01:12:50,719

who participated

1969

01:12:55,590 --> 01:12:53,360

and i will turn it now to barbara who

1970

01:12:57,669 --> 01:12:55,600

will take us to the next segment

1971

01:13:00,229 --> 01:12:57,679

hola i'm barbara trujillo i'm proud to

1972

01:13:01,990 --> 01:13:00,239

be serving as the ola vice chair here at

1973

01:13:04,149 --> 01:13:02,000

nasa headquarters

1974

01:13:08,870 --> 01:13:04,159

can i just say wow wasn't that a great

1975

01:13:13,189 --> 01:13:11,110

i just want to thank you for

1976

01:13:14,790 --> 01:13:13,199

sharing your expertise your passion you

1977

01:13:17,510 --> 01:13:14,800

can feel the passion in answering your

1978

01:13:19,750 --> 01:13:17,520

questions and talking about your stories

1979

01:13:20,950 --> 01:13:19,760

and to support the latino stem up i know

1980

01:13:22,870 --> 01:13:20,960

that i'm inspired by your

1981

01:13:26,229 --> 01:13:22,880

accomplishments i came from las cruces

1982

01:13:29,030 --> 01:13:26,239

new mexico and i made it to nasa too

1983

01:13:31,189 --> 01:13:29,040

let me just say that

1984

01:13:32,470 --> 01:13:31,199

and i think you're making a difference

1985

01:13:34,950 --> 01:13:32,480

for the future

1986

01:13:37,430 --> 01:13:34,960

you know for our country for the earth

1987

01:13:40,470 --> 01:13:37,440

for future scientists technologists

1988

01:13:42,390 --> 01:13:40,480

engineers and mathematicians so

1989

01:13:43,990 --> 01:13:42,400

again please join me in another round of

1990

01:13:49,669 --> 01:13:44,000

applause for these distinguished panel

1991

01:13:53,030 --> 01:13:51,350

i also like to acknowledge the support

1992

01:13:55,350 --> 01:13:53,040

from many others that helped us make

1993

01:13:57,669 --> 01:13:55,360

this event possible

1994

01:13:59,510 --> 01:13:57,679

our ola champion who couldn't be with us

1995

01:14:00,709 --> 01:13:59,520

today acting associate deputy

1996

01:14:02,870 --> 01:14:00,719

administrator

1997

01:14:05,510 --> 01:14:02,880

kristen paquin

1998

01:14:07,110 --> 01:14:05,520

our ola sponsor jay henn

1999

01:14:08,550 --> 01:14:07,120

the executive director for headquarters

2000

01:14:11,750 --> 01:14:08,560

operation

2001

01:14:13,510 --> 01:14:11,760

crystal moton our director for equal

2002

01:14:15,350 --> 01:14:13,520

opportunity and diversity management

2003

01:14:17,110 --> 01:14:15,360

division and her staff

2004

01:14:18,550 --> 01:14:17,120

the media teams from headquarters and

2005

01:14:20,070 --> 01:14:18,560

from goddard the office of

2006

01:14:22,070 --> 01:14:20,080

communications

2007

01:14:25,030 --> 01:14:22,080

the graphics team and many other

2008

01:14:26,870 --> 01:14:25,040

volunteers that stepped up to help us

2009

01:14:28,470 --> 01:14:26,880

and i'd be remiss if i wouldn't thank

2010

01:14:30,870 --> 01:14:28,480

maria santos

2011

01:14:33,189 --> 01:14:30,880

our ola chair for her vision and

2012

01:14:35,830 --> 01:14:33,199

leadership and for all the other ola

2013

01:14:39,030 --> 01:14:35,840

members that were here to support us

2014

01:14:41,430 --> 01:14:39,040

so next i'd like to bring uh crystal

2015

01:14:43,030 --> 01:14:41,440

she is going to present to the moderator

2016

01:14:49,430 --> 01:14:43,040

and our panel members a token of our

2017

01:14:52,790 --> 01:14:51,189

good morning everyone again my name is

2018

01:14:54,630 --> 01:14:52,800

crystal milton and i'm the director of

2019

01:14:56,310 --> 01:14:54,640

the equal opportunity and diversity

2020

01:14:59,189 --> 01:14:56,320

management division here at nasa

2021

01:15:01,990 --> 01:14:59,199

headquarters and i just like to say

2022

01:15:02,950 --> 01:15:02,000

i was truly inspired today fantastic

2023

01:15:05,030 --> 01:15:02,960

panel

2024

01:15:07,830 --> 01:15:05,040

fantastic discussion

2025

01:15:11,189 --> 01:15:07,840

you all touched on so many areas that we

2026

01:15:14,390 --> 01:15:11,199

can all glean some knowledge and insight

2027

01:15:16,790 --> 01:15:14,400

inspiration to take us forward to engage

2028

01:15:18,070 --> 01:15:16,800

our young people so thank you very very

2029

01:15:20,390 --> 01:15:18,080

much for your presence we really

2030

01:15:23,669 --> 01:15:20,400

appreciate you today thank you so much

2031

01:15:27,990 --> 01:15:23,679

and so um i have the um pleasure of

2032

01:15:30,310 --> 01:15:28,000

presenting a token of our appreciation

2033

01:15:31,030 --> 01:15:30,320

i'm going to read the um

2034

01:15:46,310 --> 01:15:31,040

the

2035

01:15:49,110 --> 01:15:46,320

exceptional contribution and

2036

01:15:51,750 --> 01:15:49,120

participation in the hispanic outreach

2037

01:15:53,990 --> 01:15:51,760

and leadership alliance celebration of

2038

01:15:57,430 --> 01:15:54,000

hispanic heritage month at nasa

2039

01:16:00,870 --> 01:15:57,440

headquarters october 12 2017. it's

2040

01:16:02,310 --> 01:16:00,880

signed by our executive director mr j m

2041

01:16:05,590 --> 01:16:02,320

henn

2042

01:16:08,709 --> 01:16:05,600

office of headquarters operations nasa

2043

01:16:12,229 --> 01:16:08,719

so um and jay could not be here today um

2044

01:16:14,390 --> 01:16:12,239

again we appreciate you and we just want

2045

01:16:18,390 --> 01:16:14,400

to give you a token of our appreciation

2046

01:16:20,470 --> 01:16:18,400

so you all re receive one of these

2047

01:16:30,870 --> 01:16:20,480

can everyone see

2048

01:16:35,990 --> 01:16:33,110

and we have carrying cases for these

2049

01:16:57,350 --> 01:16:36,000

fantastic phenomenal montages for you as

2050

01:16:57,360 --> 01:17:00,709

he said wow

2051  
01:17:21,990 --> 01:17:02,229  
they're pretty they're pretty impressive

2052  
01:17:30,310 --> 01:17:25,130  
thank you again

2053  
01:17:36,630 --> 01:17:32,149  
okay next i'm honored to introduce our

2054  
01:17:41,030 --> 01:17:38,790  
tori is an activity manager in the

2055  
01:17:43,590 --> 01:17:41,040  
office of education minority university

2056  
01:17:45,910 --> 01:17:43,600  
research and education project

2057  
01:17:47,910 --> 01:17:45,920  
he is coming to us from goddard space

2058  
01:17:53,270 --> 01:17:47,920  
flight center

2059  
01:17:59,270 --> 01:17:55,030  
thank you

2060  
01:18:01,189 --> 01:17:59,280  
i appreciate the kind introduction

2061  
01:18:04,149 --> 01:18:01,199  
today i'll be bringing some remarks on

2062  
01:18:05,750 --> 01:18:04,159  
behalf of mr mike kinkade the acting

2063  
01:18:09,030 --> 01:18:05,760

associate administrator for the office

2064

01:18:10,709 --> 01:18:09,040

of education and ms joletta patrick the

2065

01:18:13,750 --> 01:18:10,719

director for minority university

2066

01:18:15,669 --> 01:18:13,760

research and education project

2067

01:18:18,390 --> 01:18:15,679

i've really enjoyed

2068

01:18:19,990 --> 01:18:18,400

this rich stem discussion today

2069

01:18:22,229 --> 01:18:20,000

during our hispanic heritage month

2070

01:18:24,550 --> 01:18:22,239

celebration here at nasa

2071

01:18:26,870 --> 01:18:24,560

as an organization we are excited that

2072

01:18:28,470 --> 01:18:26,880

stem is indeed far-reaching

2073

01:18:30,870 --> 01:18:28,480

and through the efforts of the office of

2074

01:18:33,110 --> 01:18:30,880

education we have been able to affect

2075

01:18:34,950 --> 01:18:33,120

positive results across the country

2076

01:18:36,310 --> 01:18:34,960

through our various initiatives i'm

2077

01:18:37,910 --> 01:18:36,320

going to spend a little time talking

2078

01:18:39,510 --> 01:18:37,920

about a few of them but i won't belabor

2079

01:18:40,950 --> 01:18:39,520

your lunch

2080

01:18:43,270 --> 01:18:40,960

we'd like to share some exciting

2081

01:18:46,310 --> 01:18:43,280

information with respect to some of the

2082

01:18:48,229 --> 01:18:46,320

current office of education efforts

2083

01:18:50,790 --> 01:18:48,239

the first is regarding our nasa

2084

01:18:52,550 --> 01:18:50,800

internships fellowships and scholarships

2085

01:18:54,709 --> 01:18:52,560

or nifs

2086

01:18:57,430 --> 01:18:54,719

nasa internships are available for

2087

01:18:58,950 --> 01:18:57,440

educators high school undergraduate and

2088

01:19:02,070 --> 01:18:58,960

graduate students

2089

01:19:04,550 --> 01:19:02,080

and support educational opportunities

2090

01:19:08,229 --> 01:19:04,560

that provide unique nasa-related

2091

01:19:11,110 --> 01:19:08,239

research and operational experiences

2092

01:19:13,350 --> 01:19:11,120

nasa fellowships are competitive awards

2093

01:19:15,830 --> 01:19:13,360

to support independently conceived or

2094

01:19:18,310 --> 01:19:15,840

disease design research

2095

01:19:20,709 --> 01:19:18,320

or senior design projects by highly

2096

01:19:22,950 --> 01:19:20,719

qualified faculty undergraduate and

2097

01:19:25,669 --> 01:19:22,960

graduate students and disciplines needed

2098

01:19:27,189 --> 01:19:25,679

to advance nasa's missions

2099

01:19:29,830 --> 01:19:27,199

we also have scholarships that are

2100

01:19:32,630 --> 01:19:29,840

designed to provide financial assistance

2101  
01:19:36,550 --> 01:19:32,640  
as well as internship opportunities

2102  
01:19:41,830 --> 01:19:38,870  
intern applications for the spring

2103  
01:19:44,709 --> 01:19:41,840  
session for 2018 are due next week and

2104  
01:19:46,630 --> 01:19:44,719  
the open session for summer 2018 begins

2105  
01:19:48,470 --> 01:19:46,640  
on the 18th of october

2106  
01:19:50,310 --> 01:19:48,480  
so please share these opportunities with

2107  
01:19:53,270 --> 01:19:50,320  
your friends and family and apply again

2108  
01:19:55,189 --> 01:19:53,280  
at [intern.nasa.gov](http://intern.nasa.gov)

2109  
01:19:57,830 --> 01:19:55,199  
a second critical component of the

2110  
01:19:59,910 --> 01:19:57,840  
office of education is the minority

2111  
01:20:02,550 --> 01:19:59,920  
university research and education

2112  
01:20:04,229 --> 01:20:02,560  
project or mirop

2113  
01:20:06,229 --> 01:20:04,239

through mir mirap activities nasa

2114

01:20:08,310 --> 01:20:06,239

supports historically black colleges and

2115

01:20:09,669 --> 01:20:08,320

universities hispanic serving

2116

01:20:11,669 --> 01:20:09,679

institutions

2117

01:20:14,470 --> 01:20:11,679

asian-american and native american

2118

01:20:16,790 --> 01:20:14,480

pacific islanders serving institutions

2119

01:20:18,709 --> 01:20:16,800

tribal colleges and universities and

2120

01:20:21,750 --> 01:20:18,719

other minority serving institutions

2121

01:20:23,910 --> 01:20:21,760

through multi-year research grants

2122

01:20:26,310 --> 01:20:23,920

additionally mira provides internships

2123

01:20:28,149 --> 01:20:26,320

scholarships fellowships mentoring as

2124

01:20:29,830 --> 01:20:28,159

you all discussed on the panel

2125

01:20:31,510 --> 01:20:29,840

and tutoring for

2126  
01:20:32,790 --> 01:20:31,520  
underserved and underrepresented

2127  
01:20:35,910 --> 01:20:32,800  
learners

2128  
01:20:37,669 --> 01:20:35,920  
in k-12 in formal and higher education

2129  
01:20:41,030 --> 01:20:37,679  
settings

2130  
01:20:43,270 --> 01:20:41,040  
hispanic-serving institutions or hsis

2131  
01:20:45,669 --> 01:20:43,280  
of which they're about 350 or more in

2132  
01:20:48,709 --> 01:20:45,679  
total account for approximately 42

2133  
01:20:51,990 --> 01:20:48,719  
percent of all msis in the country

2134  
01:20:54,790 --> 01:20:52,000  
in 2016 nasa spent over 59 million

2135  
01:20:56,790 --> 01:20:54,800  
dollars across these institutions

2136  
01:20:59,030 --> 01:20:56,800  
merip also provides support and

2137  
01:21:00,790 --> 01:20:59,040  
sponsorship for conferences that promote

2138  
01:21:03,189 --> 01:21:00,800

stem awareness

2139

01:21:05,590 --> 01:21:03,199

across multiple demographic groups such

2140

01:21:08,390 --> 01:21:05,600

as great minds in stem the society of

2141

01:21:10,870 --> 01:21:08,400

hispanic professional engineers women of

2142

01:21:12,229 --> 01:21:10,880

color in stem and the society for

2143

01:21:13,990 --> 01:21:12,239

advancement

2144

01:21:16,629 --> 01:21:14,000

of chicanos and hispanics and native

2145

01:21:19,350 --> 01:21:16,639

americans in science

2146

01:21:21,990 --> 01:21:19,360

an example of a dynamic nasa activity

2147

01:21:24,149 --> 01:21:22,000

intersecting with the largest r1

2148

01:21:26,870 --> 01:21:24,159

institution serving a predominantly

2149

01:21:29,590 --> 01:21:26,880

hispanic student population can be found

2150

01:21:31,669 --> 01:21:29,600

in the university of texas el paso

2151  
01:21:35,270 --> 01:21:31,679  
and europe institutional research

2152  
01:21:38,470 --> 01:21:35,280  
opportunity center for space exploration

2153  
01:21:40,149 --> 01:21:38,480  
and technology research say that again a

2154  
01:21:42,629 --> 01:21:40,159  
couple of times fast

2155  
01:21:45,110 --> 01:21:42,639  
uh sorry for the acronyms

2156  
01:21:47,110 --> 01:21:45,120  
but this group out of uh utep that's

2157  
01:21:49,750 --> 01:21:47,120  
working with our mirror program

2158  
01:21:52,790 --> 01:21:49,760  
continued its mission of creating an

2159  
01:21:55,430 --> 01:21:52,800  
aerospace and energy research facility

2160  
01:21:57,189 --> 01:21:55,440  
within a 21st century demographic

2161  
01:21:59,510 --> 01:21:57,199  
institution

2162  
01:22:02,310 --> 01:21:59,520  
and lastly i want to share a little bit

2163  
01:22:05,510 --> 01:22:02,320

about a really special activity a year

2164

01:22:07,669 --> 01:22:05,520

of education on station

2165

01:22:11,110 --> 01:22:07,679

this year crews aboard the international

2166

01:22:13,830 --> 01:22:11,120

space station or iss will inspire more

2167

01:22:16,310 --> 01:22:13,840

students and teachers than ever before

2168

01:22:18,629 --> 01:22:16,320

the year of education on station

2169

01:22:21,189 --> 01:22:18,639

takes advantage of the unique capability

2170

01:22:22,870 --> 01:22:21,199

of the space station to stimulate the

2171

01:22:25,750 --> 01:22:22,880

interest of students from

2172

01:22:27,910 --> 01:22:25,760

kindergarteners to post graduates alike

2173

01:22:30,790 --> 01:22:27,920

as a dream realized through innovation

2174

01:22:33,189 --> 01:22:30,800

hard work and perseverance and dedicated

2175

01:22:35,189 --> 01:22:33,199

to the pursuit of knowledge the station

2176  
01:22:37,030 --> 01:22:35,199  
is a literal beacon for the entire

2177  
01:22:39,830 --> 01:22:37,040  
education community

2178  
01:22:41,990 --> 01:22:39,840  
of what can be achieved through learning

2179  
01:22:43,990 --> 01:22:42,000  
among crew members aboard the station

2180  
01:22:45,189 --> 01:22:44,000  
this year are two u.s astronauts who

2181  
01:22:48,310 --> 01:22:45,199  
were teachers

2182  
01:22:50,629 --> 01:22:48,320  
joe acaba and ricky arnold and you will

2183  
01:22:52,390 --> 01:22:50,639  
actually see and hear from joe shortly

2184  
01:22:53,830 --> 01:22:52,400  
via a message from the international

2185  
01:22:56,070 --> 01:22:53,840  
space station

2186  
01:22:58,390 --> 01:22:56,080  
these two former teachers will bring

2187  
01:23:00,390 --> 01:22:58,400  
their experience in the classroom and

2188  
01:23:02,629 --> 01:23:00,400

passion for teaching

2189

01:23:05,189 --> 01:23:02,639

during the year of education

2190

01:23:07,110 --> 01:23:05,199

year of education activities include

2191

01:23:09,350 --> 01:23:07,120

opportunities for hundreds of students

2192

01:23:11,350 --> 01:23:09,360

and educators across the nation

2193

01:23:12,629 --> 01:23:11,360

to speak directly with astronauts in

2194

01:23:14,629 --> 01:23:12,639

space

2195

01:23:17,110 --> 01:23:14,639

thousands more will participate through

2196

01:23:19,030 --> 01:23:17,120

nasa partnerships with companies

2197

01:23:21,350 --> 01:23:19,040

learning centers

2198

01:23:23,590 --> 01:23:21,360

associations universities media

2199

01:23:24,950 --> 01:23:23,600

organizations and institutions a whole

2200

01:23:27,189 --> 01:23:24,960

lot of folks

2201  
01:23:29,189 --> 01:23:27,199  
and new educational demonstrations

2202  
01:23:31,830 --> 01:23:29,199  
filmed in orbit and linked to life in

2203  
01:23:33,750 --> 01:23:31,840  
space and human exploration

2204  
01:23:36,229 --> 01:23:33,760  
will be unveiled and available to

2205  
01:23:38,310 --> 01:23:36,239  
hopefully millions throughout the year

2206  
01:23:40,870 --> 01:23:38,320  
the ultimate objective is to inspire

2207  
01:23:42,709 --> 01:23:40,880  
students in fields related to stem

2208  
01:23:44,950 --> 01:23:42,719  
to help teachers stimulate the interest

2209  
01:23:46,470 --> 01:23:44,960  
of their classes in these subjects and

2210  
01:23:49,030 --> 01:23:46,480  
ultimately through their students

2211  
01:23:51,510 --> 01:23:49,040  
pursuit of dreams to advance american

2212  
01:23:53,990 --> 01:23:51,520  
achievement in discovery

2213  
01:23:55,990 --> 01:23:54,000

invention and exploration

2214

01:23:58,229 --> 01:23:56,000

you can find out how you can be a part

2215

01:24:00,830 --> 01:23:58,239

of all of this and share nasa's year of

2216

01:24:03,910 --> 01:24:00,840

education on station by visiting

2217

01:24:05,350 --> 01:24:03,920

nasa.gov \ education \

2218

01:24:07,830 --> 01:24:05,360

onstation

2219

01:24:09,590 --> 01:24:07,840

now as promised we now have some words

2220

01:24:11,669 --> 01:24:09,600

directly from joe acaba from the

2221

01:24:14,629 --> 01:24:11,679

international space station honoring

2222

01:24:20,149 --> 01:24:14,639

hispanic hispanic heritage month thank

2223

01:24:25,350 --> 01:24:23,270

hi everyone i'm nasa astronaut joe acaba

2224

01:24:27,189 --> 01:24:25,360

currently living and working aboard the

2225

01:24:28,790 --> 01:24:27,199

international space station

2226

01:24:31,350 --> 01:24:28,800

i want to take a moment to honor

2227

01:24:33,669 --> 01:24:31,360

national hispanic heritage month i am

2228

01:24:35,750 --> 01:24:33,679

proud of my puerto rican heritage and

2229

01:24:38,310 --> 01:24:35,760

grateful for the opportunity to

2230

01:24:40,550 --> 01:24:38,320

represent the hispanic culture both on

2231

01:24:42,709 --> 01:24:40,560

earth and now in space

2232

01:24:44,870 --> 01:24:42,719

i want to pay tribute to the generations

2233

01:24:47,030 --> 01:24:44,880

of hispanic americans who have reached

2234

01:24:49,189 --> 01:24:47,040

for the stars and made accomplishments

2235

01:24:52,070 --> 01:24:49,199

in many different fields including the

2236

01:24:54,310 --> 01:24:52,080

sciences and aerospace i also want to

2237

01:24:56,470 --> 01:24:54,320

recognize all the amazing and diverse

2238

01:24:58,950 --> 01:24:56,480

members of the hispanic community at

2239

01:25:01,350 --> 01:24:58,960

nasa and elsewhere who have made it

2240

01:25:03,270 --> 01:25:01,360

possible for me to fly in space and

2241

01:25:05,350 --> 01:25:03,280

conduct experiments that could lead to

2242

01:25:07,430 --> 01:25:05,360

innovations and breakthroughs that

2243

01:25:10,070 --> 01:25:07,440

benefit everyone

2244

01:25:12,229 --> 01:25:10,080

diversity is essential to our success

2245

01:25:14,310 --> 01:25:12,239

and i encourage all of you to use this

2246

01:25:16,550 --> 01:25:14,320

hispanic heritage month to learn a

2247

01:25:19,189 --> 01:25:16,560

little more about the accomplishments

2248

01:25:22,229 --> 01:25:19,199

and contributions hispanics have made to

2249

01:25:24,470 --> 01:25:22,239

your careers field specifically and more

2250

01:25:28,760 --> 01:25:24,480

broadly to improve the lives of every

2251

01:25:28,770 --> 01:25:35,430

[Applause]

2252

01:25:39,189 --> 01:25:37,430

i just wanted to say again thank you so

2253

01:25:41,990 --> 01:25:39,199

much for spending your morning with us

2254

01:25:43,830 --> 01:25:42,000

uh our current um acting administrator

2255

01:25:45,510 --> 01:25:43,840

unfortunately could not be here with us

2256

01:25:48,070 --> 01:25:45,520

today but he did want to say a few

2257

01:25:49,510 --> 01:25:48,080

remarks so that being said uh please

2258

01:25:51,750 --> 01:25:49,520

welcome uh

2259

01:25:56,149 --> 01:25:51,760

by video our uh acting nasa

2260

01:25:59,669 --> 01:25:57,669

hello everyone i'm robert lightfoot

2261

01:26:01,350 --> 01:25:59,679

nasa's acting administrator

2262

01:26:03,270 --> 01:26:01,360

i'm sorry i was not able to attend this

2263

01:26:04,870 --> 01:26:03,280

event in person but i wanted to take a

2264

01:26:07,990 --> 01:26:04,880

moment to say thank you for attending

2265

01:26:10,070 --> 01:26:08,000

our 2017 hispanic heritage month event

2266

01:26:11,830 --> 01:26:10,080

latino stem up

2267

01:26:13,910 --> 01:26:11,840

at nasa we welcome and celebrate

2268

01:26:14,870 --> 01:26:13,920

diversity it's essential to mission

2269

01:26:17,030 --> 01:26:14,880

success

2270

01:26:19,350 --> 01:26:17,040

hispanics have been and will continue to

2271

01:26:22,550 --> 01:26:19,360

be an integral part of our workforce

2272

01:26:24,070 --> 01:26:22,560

across every nasa center the hispanic

2273

01:26:25,669 --> 01:26:24,080

community is the fastest growing

2274

01:26:27,430 --> 01:26:25,679

population in our diverse nation

2275

01:26:30,310 --> 01:26:27,440

comprising almost 18 percent of our

2276

01:26:31,910 --> 01:26:30,320

population and growing

2277

01:26:34,310 --> 01:26:31,920

their engagement and contributions are

2278

01:26:36,390 --> 01:26:34,320

essential to nasa continuing to inspire

2279

01:26:38,950 --> 01:26:36,400

explore our solar system and look beyond

2280

01:26:41,350 --> 01:26:38,960

it and achieve amazing things on behalf

2281

01:26:43,350 --> 01:26:41,360

of the american people and the world

2282

01:26:45,189 --> 01:26:43,360

today you heard from a stellar lineup of

2283

01:26:47,189 --> 01:26:45,199

talent from across our agency and the

2284

01:26:49,189 --> 01:26:47,199

nation about the importance of hispanic

2285

01:26:51,030 --> 01:26:49,199

representation in stem education and

2286

01:26:53,669 --> 01:26:51,040

stem careers

2287

01:26:55,750 --> 01:26:53,679

here at nasa stem is what we do

2288

01:26:57,750 --> 01:26:55,760

we hope to continue not only inspire

2289

01:26:59,590 --> 01:26:57,760

future scientists and engineers but also

2290

01:27:02,390 --> 01:26:59,600

to train and develop the future leaders

2291

01:27:04,390 --> 01:27:02,400

and decision makers of this great agency

2292

01:27:06,470 --> 01:27:04,400

i encourage students to continue to

2293

01:27:08,310 --> 01:27:06,480

dream big and to one day join us on our

2294

01:27:10,070 --> 01:27:08,320

mission of exploration

2295

01:27:12,070 --> 01:27:10,080

and because we want to continue being a

2296

01:27:14,070 --> 01:27:12,080

leading and cutting edge organization as

2297

01:27:15,910 --> 01:27:14,080

leaders we must prepare both our current

2298

01:27:16,830 --> 01:27:15,920

and future diverse workforce for the

2299

01:27:19,430 --> 01:27:16,840

jobs of

2300

01:27:21,510 --> 01:27:19,440

tomorrow i look forward to us continuing

2301  
01:27:23,430 --> 01:27:21,520  
this dialogue and working together to

2302  
01:27:25,350 --> 01:27:23,440  
ensure we're breaking down barriers and

2303  
01:27:27,030 --> 01:27:25,360  
reaching for new heights

2304  
01:27:28,790 --> 01:27:27,040  
i want to give a big thank you to the

2305  
01:27:31,189 --> 01:27:28,800  
hispanic outreach and leadership

2306  
01:27:32,870 --> 01:27:31,199  
alliance also known as ola at nasa

2307  
01:27:34,390 --> 01:27:32,880  
headquarters for planning and hosting

2308  
01:27:36,229 --> 01:27:34,400  
today's program

2309  
01:27:38,070 --> 01:27:36,239  
also the equal opportunity and diversity

2310  
01:27:39,830 --> 01:27:38,080  
management division and jay hen the

2311  
01:27:42,310 --> 01:27:39,840  
executive director for headquarters

2312  
01:27:44,149 --> 01:27:42,320  
operations and of course ola's champion

2313  
01:27:46,950 --> 01:27:44,159

nasa's acting deputy administrator

2314

01:27:48,950 --> 01:27:46,960

christa paquin the ola leadership team

2315

01:27:50,870 --> 01:27:48,960

is an example of how nasa employees go

2316

01:27:53,030 --> 01:27:50,880

above and beyond to help us meet our

2317

01:27:54,870 --> 01:27:53,040

missions and goals

2318

01:27:56,550 --> 01:27:54,880

they're all volunteers because they

2319

01:27:58,149 --> 01:27:56,560

believe in the importance of diversity

2320

01:28:00,470 --> 01:27:58,159

and inclusion

2321

01:28:03,590 --> 01:28:00,480

i thank ola and the other employee

2322

01:28:05,750 --> 01:28:03,600

research groups across our entire agency

2323

01:28:08,070 --> 01:28:05,760

who work tirelessly to plan events and

2324

01:28:10,390 --> 01:28:08,080

special programs and serve as advisors

2325

01:28:12,070 --> 01:28:10,400

to senior leaders like me

2326

01:28:14,390 --> 01:28:12,080

their efforts directly contribute to