



1  
00:05:50,910 --> 00:05:47,940  
yes it's much better now there'll be no

2  
00:05:53,880 --> 00:05:50,920  
problem thank you dr. James Newman

3  
00:05:59,580 --> 00:05:53,890  
aboard space vehicle endeavour what's

4  
00:06:01,740 --> 00:05:59,590  
your mission our mission is actually not

5  
00:06:03,480 --> 00:06:01,750  
a single mission in the sense of just

6  
00:06:05,310 --> 00:06:03,490  
coming up and doing one thing we're

7  
00:06:07,890 --> 00:06:05,320  
really here to work and live in space

8  
00:06:09,540 --> 00:06:07,900  
today we deployed the Spartan satellite

9  
00:06:13,020 --> 00:06:09,550  
which will be on a two day mission to

10  
00:06:15,240 --> 00:06:13,030  
study solar science will next deploy the

11  
00:06:19,580 --> 00:06:15,250  
Wakefield facility for studying new

12  
00:06:23,180 --> 00:06:19,590  
technologies in micro in semiconductor

13  
00:06:25,440 --> 00:06:23,190

genomics and we also have a spacewalk to

14

00:06:28,680 --> 00:06:25,450

study some of the techniques for the

15

00:06:30,210 --> 00:06:28,690

space station construction let me let me

16

00:06:31,350 --> 00:06:30,220

take some of the incoming calls to you

17

00:06:34,590 --> 00:06:31,360

maybe they can get through to more

18

00:06:36,240 --> 00:06:34,600

clearly our number 1-800 to to to KABC

19

00:06:39,300 --> 00:06:36,250

Larry good morning

20

00:06:43,380 --> 00:06:39,310

yes good morning Michael I just wanted

21

00:06:45,090 --> 00:06:43,390

to wish Dave Walker and the crew the

22

00:06:47,130 --> 00:06:45,100

very best of luck and and the

23

00:06:51,180 --> 00:06:47,140

congratulations from the Career Academy

24

00:06:52,830 --> 00:06:51,190

at Hollywood High School and we'd love

25

00:06:54,930 --> 00:06:52,840

to have them come and visit the school

26  
00:06:56,810 --> 00:06:54,940  
after they had their experience and tell

27  
00:07:00,000 --> 00:06:56,820  
us a little bit about the trip in space

28  
00:07:01,980 --> 00:07:00,010  
well well you were a classmate yes I was

29  
00:07:03,300 --> 00:07:01,990  
a classmate of Dave Walker that test

30  
00:07:07,200 --> 00:07:03,310  
pilot school the Air Force test pilot

31  
00:07:08,970 --> 00:07:07,210  
school great I'm watching a picture of

32  
00:07:11,670 --> 00:07:08,980  
you up there in space you look so

33  
00:07:13,860 --> 00:07:11,680  
incredibly relaxed more relaxed and I

34  
00:07:15,600 --> 00:07:13,870  
feel right now I want to go back to that

35  
00:07:17,850 --> 00:07:15,610  
question that I posed earlier other

36  
00:07:22,170 --> 00:07:17,860  
moments of fear are you too darn busy to

37  
00:07:25,170 --> 00:07:22,180  
be concerned about being frightened the

38  
00:07:27,150 --> 00:07:25,180

essence itself is probably the most

39

00:07:28,920 --> 00:07:27,160

frightening part of the launch and if

40

00:07:31,350 --> 00:07:28,930

you've ever seen the launch it's really

41

00:07:33,750 --> 00:07:31,360

a lot scarier to watch one than it is to

42

00:07:35,880 --> 00:07:33,760

be inside the shuttle inside the shuttle

43

00:07:38,520 --> 00:07:35,890

you don't see all of the the fireworks

44

00:07:40,650 --> 00:07:38,530

going on outside and it's just like an

45

00:07:44,610 --> 00:07:40,660

elevator that's a whole building that

46

00:07:46,290 --> 00:07:44,620

goes straight up yeah Robin take an

47

00:07:48,870 --> 00:07:46,300

elevator you know something that isn't

48

00:07:52,620 --> 00:07:48,880

true I think I think every one of us

49

00:07:54,360 --> 00:07:52,630

watching now has fantasized about doing

50

00:07:55,620 --> 00:07:54,370

what you're doing at what age did you

51  
00:07:59,989 --> 00:07:55,630  
begin to say to yourself you know

52  
00:08:03,719 --> 00:08:02,249  
there's a little controversy about that

53  
00:08:06,839 --> 00:08:03,729  
but it was when I was probably between

54  
00:08:09,659 --> 00:08:06,849  
13 and 15 when I realized it would be a

55  
00:08:13,589 --> 00:08:09,669  
great way to combine flying a love of

56  
00:08:16,019 --> 00:08:13,599  
the idea of flying and also science and

57  
00:08:18,869 --> 00:08:16,029  
engineering let's take another call

58  
00:08:21,390 --> 00:08:18,879  
we're speaking to a space shuttle

59  
00:08:23,399 --> 00:08:21,400  
Endeavour was thigma dr. James Newman

60  
00:08:25,559 --> 00:08:23,409  
astronaut I'm Michael Jackson when a

61  
00:08:27,239 --> 00:08:25,569  
good morning good morning and I'm so

62  
00:08:29,429 --> 00:08:27,249  
thrilled I can barely believe what's

63  
00:08:32,430 --> 00:08:29,439

happening to me my name is Manny Shapiro

64

00:08:35,250 --> 00:08:32,440

I'm speaking from Abu California I'm 62

65

00:08:37,230 --> 00:08:35,260

grandma of 11 grandkids and 2 years ago

66

00:08:38,730 --> 00:08:37,240

my husband myself and two others flew at

67

00:08:41,730 --> 00:08:38,740

general aviation playing around the

68

00:08:44,400 --> 00:08:41,740

world through recount Ukraine and Russia

69

00:08:47,069 --> 00:08:44,410

doing within 65 hours but you do every

70

00:08:49,560 --> 00:08:47,079

90 minutes my question is this what

71

00:08:51,210 --> 00:08:49,570

words do you have to my own grandkids

72

00:08:53,939 --> 00:08:51,220

and to all the young people who may be

73

00:08:55,680 --> 00:08:53,949

listening what guidance can you give

74

00:08:58,500 --> 00:08:55,690

them if they want to set their career

75

00:08:59,100 --> 00:08:58,510

along the flight path you've chosen how

76

00:09:04,439 --> 00:08:59,110

lovely

77

00:09:06,180 --> 00:09:04,449

to get that one doctor yes I did and one

78

00:09:09,060 --> 00:09:06,190

of the questions that I often ask is why

79

00:09:10,620 --> 00:09:09,070

should kids study hard in school our

80

00:09:12,150 --> 00:09:10,630

math and science are important but

81

00:09:14,550 --> 00:09:12,160

they're hard subjects we have to study

82

00:09:16,560 --> 00:09:14,560

hard at them to be good and I think that

83

00:09:19,710 --> 00:09:16,570

one of the good answers for that

84

00:09:21,720 --> 00:09:19,720

question is a career in the space

85

00:09:23,460 --> 00:09:21,730

business and certainly a career as an

86

00:09:24,960 --> 00:09:23,470

astronaut I think that more and more

87

00:09:28,110 --> 00:09:24,970

people are going to have the opportunity

88

00:09:29,670 --> 00:09:28,120

to fly in space and I think that this is

89

00:09:32,430 --> 00:09:29,680

one route there's a number of other

90

00:09:34,439 --> 00:09:32,440

routes as well to give kids good reasons

91

00:09:36,750 --> 00:09:34,449

to study hard in school but I strongly

92

00:09:38,880 --> 00:09:36,760

believe that the space program is an

93

00:09:40,410 --> 00:09:38,890

outstanding example great countries do

94

00:09:42,780 --> 00:09:40,420

great things and this is something for

95

00:09:45,360 --> 00:09:42,790

all of us for the kids for adults for

96

00:09:47,280 --> 00:09:45,370

seniors to enjoy Renee thank you very

97

00:09:50,040 --> 00:09:47,290

much for your call and we're really on

98

00:09:51,720 --> 00:09:50,050

the verge of enormous I'm quite frankly

99

00:09:54,000 --> 00:09:51,730

to use I think it was Newt Gingrich's

100

00:09:55,980 --> 00:09:54,010

words frontiers of knowledge and

101  
00:09:58,769 --> 00:09:55,990  
opportunity and am I correct in saying

102  
00:10:04,630 --> 00:09:58,779  
that NASA is doing more with less these

103  
00:10:09,800 --> 00:10:08,390  
did we lose him you know I there's so

104  
00:10:11,630 --> 00:10:09,810  
many questions one should get to an

105  
00:10:12,920 --> 00:10:11,640  
adventure I will I've done so with the

106  
00:10:14,600 --> 00:10:12,930  
administrator of NASA

107  
00:10:18,740 --> 00:10:14,610  
you know why Congress wants to smash

108  
00:10:23,240 --> 00:10:18,750  
NASA's budget but dr. is NASA doing more

109  
00:10:27,440 --> 00:10:23,250  
with less these days absolutely

110  
00:10:29,630 --> 00:10:27,450  
NASA is finding ways to economize to do

111  
00:10:32,690 --> 00:10:29,640  
things more efficiently and up to this

112  
00:10:35,150 --> 00:10:32,700  
point with great deal of of actually I

113  
00:10:36,700 --> 00:10:35,160

think increased safety the challenge is

114

00:10:41,390 --> 00:10:36,710

to continue that in the face of

115

00:10:44,420 --> 00:10:41,400

continuing budget pressure phone number

116

00:10:46,850 --> 00:10:44,430

1-800 to-to-to KABC and it takes you all

117

00:10:49,460 --> 00:10:46,860

the way out into orbit if you will Bob

118

00:10:51,800 --> 00:10:49,470

you're on 790 KABC talk radio with a man

119

00:10:55,430 --> 00:10:51,810

aboard endeavour how long would you be

120

00:10:58,160 --> 00:10:55,440

there dr. Newman will be here for

121

00:11:02,660 --> 00:10:58,170

another 10 days waking up the the

122

00:11:04,460 --> 00:11:02,670

Spartan satellite hello yeah oh here's

123

00:11:06,080 --> 00:11:04,470

Bob for you though you're doing a lot of

124

00:11:08,330 --> 00:11:06,090

science with it and then during the

125

00:11:10,970 --> 00:11:08,340

spacewalk on flight day 10 we hope

126

00:11:12,920 --> 00:11:10,980

you'll come in join us for that I'd love

127

00:11:17,000 --> 00:11:12,930

it I'd love to go but I'm not bright

128

00:11:19,310 --> 00:11:17,010

enough and I'm too young Bob you're on

129

00:11:21,680 --> 00:11:19,320

KABC talk radio good morning how are you

130

00:11:25,100 --> 00:11:21,690

today fine I'd like to say greetings

131

00:11:27,980 --> 00:11:25,110

from well California but what's on your

132

00:11:30,080 --> 00:11:27,990

mind I just wanted to say good luck this

133

00:11:32,720 --> 00:11:30,090

is a great opportunity for America I I

134

00:11:35,030 --> 00:11:32,730

think the space travel is our future we

135

00:11:36,920 --> 00:11:35,040

should put more money into it well

136

00:11:39,380 --> 00:11:36,930

instead of launching a few spacecraft

137

00:11:42,200 --> 00:11:39,390

every decade gather NASA is planning to

138

00:11:44,480 --> 00:11:42,210

send several probes into deep space each

139

00:11:48,290 --> 00:11:44,490

year would that be a fair assessment of

140

00:11:50,900 --> 00:11:48,300

what the plans are for the future yes

141

00:11:52,970 --> 00:11:50,910

one of the initiatives the diminisher

142

00:11:55,220 --> 00:11:52,980

has been working on is getting some of

143

00:11:56,750 --> 00:11:55,230

these probes into space not only cheaper

144

00:11:58,670 --> 00:11:56,760

but are much more rapidly it's the

145

00:12:02,260 --> 00:11:58,680

faster better cheaper idea which is

146

00:12:08,360 --> 00:12:05,240

appreciate that call Bob Rick your own

147

00:12:10,010 --> 00:12:08,370

790 KABC talk radio live into space I'm

148

00:12:11,840 --> 00:12:10,020

Michael Jackson good morning good

149

00:12:13,930 --> 00:12:11,850

morning and greetings from Star Trek

150

00:12:18,050 --> 00:12:13,940

Voyager

151

00:12:20,840 --> 00:12:18,060

yes we're

152

00:12:25,910 --> 00:12:20,850

we're in the art department creating the

153

00:12:28,370 --> 00:12:25,920

future just the way you folks are my

154

00:12:33,080 --> 00:12:28,380

question is you're looking forward to

155

00:12:37,160 --> 00:12:33,090

the spacewalk and the station station

156

00:12:38,960 --> 00:12:37,170

assembly practice the space station

157

00:12:40,750 --> 00:12:38,970

assembly practice how would you respond

158

00:12:48,140 --> 00:12:40,760

to the guys who are doing it more

159

00:12:49,850 --> 00:12:48,150

fantasy than fact we've got a bunch of

160

00:12:51,980 --> 00:12:49,860

new tools and techniques we're gonna get

161

00:12:53,570 --> 00:12:51,990

the guys really cold it'll be Mike and

162

00:12:55,910 --> 00:12:53,580

Mike Gerner and Jim boss we're going

163

00:12:57,980 --> 00:12:55,920

outside and I'll be having a controlling

164

00:13:00,380 --> 00:12:57,990

them from the end of the canadian-built

165

00:13:02,000 --> 00:13:00,390

arm do we have I went on a spacewalk on

166

00:13:03,830 --> 00:13:02,010

my first flight and so this time I'll

167

00:13:05,900 --> 00:13:03,840

get to be on the inside and move them

168

00:13:09,860 --> 00:13:05,910

around as they we're gonna take them to

169

00:13:11,990 --> 00:13:09,870

some really cold attitudes you get oh I

170

00:13:14,930 --> 00:13:12,000

love degrees below zero and we have some

171

00:13:17,180 --> 00:13:14,940

new suits improvements in order to help

172

00:13:19,640 --> 00:13:17,190

keep them warm because it is very cold

173

00:13:22,160 --> 00:13:19,650

when the Sun is not shining on you here

174

00:13:24,170 --> 00:13:22,170

in space but those who are just joining

175

00:13:26,390 --> 00:13:24,180

us we are hearing a novel opportunity

176

00:13:28,340 --> 00:13:26,400

Pittman that what KABC is day in and day

177

00:13:29,930 --> 00:13:28,350

out a novel opportunity we are

178

00:13:31,730 --> 00:13:29,940

experiencing what it's like to hold a

179

00:13:35,120 --> 00:13:31,740

press conference live and direct for the

180

00:13:36,500 --> 00:13:35,130

man who's aboard a space vehicle we're

181

00:13:38,570 --> 00:13:36,510

speaking with dr. James Newman

182

00:13:40,510 --> 00:13:38,580

astronauts aboard the space vehicle

183

00:13:45,500 --> 00:13:40,520

endeavour how many times have you been

184

00:13:47,390 --> 00:13:45,510

aloft this is my second flight and I

185

00:13:51,740 --> 00:13:47,400

remember from my first one two years ago

186

00:13:53,840 --> 00:13:51,750

on sts 51 also in September a couple of

187

00:13:56,780 --> 00:13:53,850

months after I got back from that I had

188

00:13:58,640 --> 00:13:56,790

this intense desire to come back to

189

00:14:00,710 --> 00:13:58,650

space and it's not an opportunity that

190

00:14:04,310 --> 00:14:00,720

people get very often so it's really a

191

00:14:09,770 --> 00:14:04,320

pleasure to be back so is this what we

192

00:14:12,680 --> 00:14:09,780

would call a space shuttle yes we are on

193

00:14:15,140 --> 00:14:12,690

the space shuttle and is designed to be

194

00:14:17,900 --> 00:14:15,150

able to take cargo to not only to space

195

00:14:20,540 --> 00:14:17,910

but also return from space and that's

196

00:14:22,520 --> 00:14:20,550

where our program really complements the

197

00:14:24,620 --> 00:14:22,530

Russian space program in our

198

00:14:27,710 --> 00:14:24,630

international space program now because

199

00:14:29,280 --> 00:14:27,720

we can bring a lot of stuff back whereas

200

00:14:31,500 --> 00:14:29,290

the Russians can

201  
00:14:32,940 --> 00:14:31,510  
a lot of mass into space for their space

202  
00:14:37,260 --> 00:14:32,950  
station but they haven't been able to

203  
00:14:39,750 --> 00:14:37,270  
bring very much back Steve you're on 790

204  
00:14:42,870 --> 00:14:39,760  
KABC talk radio with dr. james newman

205  
00:14:45,480 --> 00:14:42,880  
astronaut I'm Michael Jackson yes

206  
00:14:47,510 --> 00:14:45,490  
Michael I just want to say that since I

207  
00:14:52,170 --> 00:14:47,520  
was a little kid I've always been very

208  
00:14:54,690 --> 00:14:52,180  
fascinated by the program program and I

209  
00:14:57,540 --> 00:14:54,700  
was wondering what was the most

210  
00:15:03,840 --> 00:14:57,550  
thrilling experience space you ever had

211  
00:15:05,820 --> 00:15:03,850  
what you're the biggest rush I think it

212  
00:15:07,950 --> 00:15:05,830  
was my spacewalk that I'd have to say

213  
00:15:10,500 --> 00:15:07,960

when when I went outside in a spacesuit

214

00:15:11,880 --> 00:15:10,510

and when you're outside here in the

215

00:15:15,300 --> 00:15:11,890

shuttle of course we still have air

216

00:15:16,860 --> 00:15:15,310

we've got all the comforts of home but

217

00:15:18,870 --> 00:15:16,870

getting into a spacesuit and going

218

00:15:21,620 --> 00:15:18,880

outside the shuttle where there's really

219

00:15:24,750 --> 00:15:21,630

nothing between you except for this thin

220

00:15:27,030 --> 00:15:24,760

spacesuit that was really probably the

221

00:15:30,180 --> 00:15:27,040

most unbelievable experience that I've

222

00:15:33,900 --> 00:15:30,190

ever had I bet you were pretty cold as

223

00:15:37,410 --> 00:15:33,910

well when you went out there well

224

00:15:39,750 --> 00:15:37,420

actually in order to test the attitude

225

00:15:41,430 --> 00:15:39,760

that the Hubble Space Telescope repair

226

00:15:43,160 --> 00:15:41,440

guys remember them also a couple years

227

00:15:46,140 --> 00:15:43,170

ago fixing the Hubble Space Telescope

228

00:15:48,690 --> 00:15:46,150

they wanted us to test the attitude now

229

00:15:51,210 --> 00:15:48,700

in space if the sun is shining on the

230

00:15:53,250 --> 00:15:51,220

space shuttle then you'll be warm but if

231

00:15:55,950 --> 00:15:53,260

space is all you can see then you'll get

232

00:15:57,300 --> 00:15:55,960

very cold so we test an attitude to make

233

00:16:00,330 --> 00:15:57,310

sure that the Hubble Space Telescope

234

00:16:02,730 --> 00:16:00,340

repair workers would not get too cold so

235

00:16:06,330 --> 00:16:02,740

we had a medium cold attitude not too

236

00:16:08,910 --> 00:16:06,340

cold when you speak of the Space Shuttle

237

00:16:11,940 --> 00:16:08,920

it's surely one of the most versatile of

238

00:16:15,000 --> 00:16:11,950

space vehicles ever developed and yet it

239

00:16:17,040 --> 00:16:15,010

represents surely only a very fractional

240

00:16:22,170 --> 00:16:17,050

part of all our u.s. space launches

241

00:16:25,530 --> 00:16:22,180

doesn't it of all the all space launches

242

00:16:28,590 --> 00:16:25,540

yes however it's a significant number of

243

00:16:31,710 --> 00:16:28,600

launches of the American space program

244

00:16:34,620 --> 00:16:31,720

total we've had there's been a hundred

245

00:16:39,210 --> 00:16:34,630

human space flights and the shuttle is

246

00:16:41,190 --> 00:16:39,220

now up to about 77 X we're the 71st

247

00:16:42,690 --> 00:16:41,200

let's take one more call if we can

248

00:16:47,370 --> 00:16:42,700

George you're on seven

249

00:16:49,020 --> 00:16:47,380

idk ABC talk radio yes Michael yes'm I

250

00:16:50,880 --> 00:16:49,030

would like to say first of all that I am

251  
00:16:53,160 --> 00:16:50,890  
extremely pleased to be able to speak to

252  
00:16:55,440 --> 00:16:53,170  
our astronauts out there and that I have

253  
00:16:58,440 --> 00:16:55,450  
never ever lost the enthusiasm of

254  
00:17:02,730 --> 00:16:58,450  
watching our country and their men into

255  
00:17:04,920 --> 00:17:02,740  
space but my question is doctor what do

256  
00:17:07,110 --> 00:17:04,930  
you feel is the future of the shuttle is

257  
00:17:09,689 --> 00:17:07,120  
it going to be more of an unmanned as

258  
00:17:11,310 --> 00:17:09,699  
opposed to manned missions and what do

259  
00:17:14,579 --> 00:17:11,320  
you think about the possibility of

260  
00:17:16,079 --> 00:17:14,589  
taking nuclear waste from our planet and

261  
00:17:17,460 --> 00:17:16,089  
putting it in space

262  
00:17:21,840 --> 00:17:17,470  
why don't you get out to the Sun and

263  
00:17:23,990 --> 00:17:21,850

getting it off of our planet I'll try to

264

00:17:26,610 --> 00:17:24,000

take the first part of that question and

265

00:17:29,430 --> 00:17:26,620

that is that the space shuttle itself is

266

00:17:31,770 --> 00:17:29,440

definitely a vehicle for people it's a

267

00:17:34,350 --> 00:17:31,780

way of getting people and cargo into

268

00:17:36,750 --> 00:17:34,360

space and it will always be that until

269

00:17:39,240 --> 00:17:36,760

sometime in the next century we develop

270

00:17:41,070 --> 00:17:39,250

another one but there's certainly going

271

00:17:43,020 --> 00:17:41,080

to continue to be a place for unmanned

272

00:17:45,390 --> 00:17:43,030

vehicles when it comes to just hauling

273

00:17:47,790 --> 00:17:45,400

material into space and not having to

274

00:17:50,190 --> 00:17:47,800

worry about bringing it back or needing

275

00:17:52,740 --> 00:17:50,200

the special skills of people then an

276

00:17:54,390 --> 00:17:52,750

unmanned vehicle is the way to go for

277

00:17:57,120 --> 00:17:54,400

communication satellites for most of

278

00:17:59,730 --> 00:17:57,130

those for example and for others as far

279

00:18:02,040 --> 00:17:59,740

as just hauling raw material essentially

280

00:18:03,750 --> 00:18:02,050

or expended nuclear waste into space

281

00:18:05,880 --> 00:18:03,760

that's a bit further down the road I

282

00:18:08,910 --> 00:18:05,890

think it will be actually cheaper to

283

00:18:11,940 --> 00:18:08,920

find good solutions to that here on

284

00:18:13,980 --> 00:18:11,950

earth rather than sending it into space

285

00:18:16,110 --> 00:18:13,990

we are working on better technologies to

286

00:18:18,690 --> 00:18:16,120

make it cheaper to get into space but in

287

00:18:21,720 --> 00:18:18,700

order to send the stuff off to the Sun

288

00:18:24,660 --> 00:18:21,730

is a ways off I am beyond respect what

289

00:18:26,220 --> 00:18:24,670

you do let me stress the MV for a moment

290

00:18:29,040 --> 00:18:26,230

because you are the true heroes that we

291

00:18:30,780 --> 00:18:29,050

still write about without criticism you

292

00:18:33,000 --> 00:18:30,790

are the people who are visiting the

293

00:18:35,340 --> 00:18:33,010

frontiers that we all of us just sort of

294

00:18:36,840 --> 00:18:35,350

dream about fantasize about I am

295

00:18:39,090 --> 00:18:36,850

respectful of your being able to find

296

00:18:42,750 --> 00:18:39,100

some time for us and I realize you've

297

00:18:44,280 --> 00:18:42,760

got a lot of work to do haven't you yes

298

00:18:45,690 --> 00:18:44,290

we have a very busy flight but it's

299

00:18:46,200 --> 00:18:45,700

actually been a pleasure to take a short

300

00:18:48,420 --> 00:18:46,210

break

301

00:18:50,190 --> 00:18:48,430

to talk with you all then I'd love to do

302

00:18:52,790 --> 00:18:50,200

it again thank you very very much indeed

303

00:18:54,510 --> 00:18:52,800

for joining us live from Endeavour

304

00:18:56,400 --> 00:18:54,520

thanks to You captain