



1
00:00:50,290 --> 00:00:45,729
the date is May sixteenth 1992 or is

2
00:00:53,799 --> 00:00:50,300
that 2012 the location is NASA Lewis

3
00:00:57,310 --> 00:00:53,809
Research Center in Cleveland Ohio or is

4
00:00:59,470 --> 00:00:57,320
it this dichotomy was not a problem for

5
00:01:02,170 --> 00:00:59,480
about 200 students teachers and

6
00:01:04,780 --> 00:01:02,180
volunteers participating in the

7
00:01:08,650 --> 00:01:04,790
Northeast Ohio premiere of Mars ville

8
00:01:11,139 --> 00:01:08,660
the cosmic village if I could wave my

9
00:01:12,910 --> 00:01:11,149
hand right now what I'd like for all of

10
00:01:16,240 --> 00:01:12,920
you to do in the next few minutes is to

11
00:01:19,090 --> 00:01:16,250
pretend and what I would like for you to

12
00:01:21,730 --> 00:01:19,100
pretend in the next few minutes is that

13
00:01:24,880 --> 00:01:21,740

suddenly we have been transported into

14

00:01:26,850 --> 00:01:24,890

the next century and not only have we

15

00:01:29,830 --> 00:01:26,860

been transported into the next century

16

00:01:33,460 --> 00:01:29,840

but we are located on the surface of

17

00:01:36,880 --> 00:01:33,470

Mars and on the surface perhaps you're

18

00:01:40,450 --> 00:01:36,890

located near that taal volcano olympus

19

00:01:42,010 --> 00:01:40,460

mons which is nearly 19 miles tall or

20

00:01:45,279 --> 00:01:42,020

perhaps you're near one of the old

21

00:01:47,760 --> 00:01:45,289

craters that is on the surface or maybe

22

00:01:50,620 --> 00:01:47,770

you're located near Valles Marineris

23

00:01:54,190 --> 00:01:50,630

that's the large Canyon that stretches

24

00:01:56,650 --> 00:01:54,200

across Mars and is over 2,000 miles in

25

00:01:59,740 --> 00:01:56,660

length and in some places is over 4

26
00:02:03,070 --> 00:01:59,750
miles deep and you're on the surface

27
00:02:06,100 --> 00:02:03,080
today to create that first Martian

28
00:02:08,949 --> 00:02:06,110
settlement which is Mars ville Mars

29
00:02:10,900 --> 00:02:08,959
Ville is a student activity that is

30
00:02:13,540 --> 00:02:10,910
sponsored by the Challenger Center for

31
00:02:15,670 --> 00:02:13,550
space science education and the

32
00:02:19,120 --> 00:02:15,680
educational information and Resource

33
00:02:21,640 --> 00:02:19,130
Center the space agency forum for the

34
00:02:24,250 --> 00:02:21,650
International Space year has called this

35
00:02:26,650 --> 00:02:24,260
program a recommended educational

36
00:02:30,670 --> 00:02:26,660
activity for the International Space

37
00:02:33,880 --> 00:02:30,680
share in 1992 Mars ville link-ups are

38
00:02:36,130 --> 00:02:33,890

springing up throughout the country in

39

00:02:38,770 --> 00:02:36,140

accordance with NASA's commitment to

40

00:02:42,490 --> 00:02:38,780

help get young people interested in math

41

00:02:44,710 --> 00:02:42,500

science and technology the Mars vil in

42

00:02:46,990 --> 00:02:44,720

the hangar at NASA Lewis research center

43

00:02:48,760 --> 00:02:47,000

was sponsored by the office of

44

00:02:52,840 --> 00:02:48,770

educational programs

45

00:02:56,890 --> 00:02:52,850

this was the first Marvel link up at any

46

00:02:58,870 --> 00:02:56,900

NASA field center it's really then most

47

00:03:02,140 --> 00:02:58,880

befitting that you be at the NASA Lewis

48

00:03:04,990 --> 00:03:02,150

research center and it's my pleasure on

49

00:03:07,420 --> 00:03:05,000

behalf of Larry Ross the center director

50

00:03:11,890 --> 00:03:07,430

and all of the staff here to welcome you

51
00:03:14,950 --> 00:03:11,900
here today the students involved in this

52
00:03:17,500 --> 00:03:14,960
Mars ville link-up came from 16

53
00:03:20,740 --> 00:03:17,510
different schools in a three County area

54
00:03:23,770 --> 00:03:20,750
around Cleveland the students are in the

55
00:03:26,800 --> 00:03:23,780
fifth to eighth grade I have fifth

56
00:03:28,780 --> 00:03:26,810
graders and the excitement was

57
00:03:31,180 --> 00:03:28,790
tremendous the kids were very

58
00:03:34,690 --> 00:03:31,190
enthusiastic they work through a lot of

59
00:03:37,810 --> 00:03:34,700
problems problem-solving scenarios and

60
00:03:40,840 --> 00:03:37,820
we had fun after school two to three to

61
00:03:43,630 --> 00:03:40,850
five days a week on the last week on May

62
00:03:45,870 --> 00:03:43,640
sixteenth 10 teams of students would

63
00:03:48,820 --> 00:03:45,880

build habitats on the Martian surface

64

00:03:51,630 --> 00:03:48,830

each team consisted of groups of

65

00:03:54,340 --> 00:03:51,640

students from three different schools

66

00:03:57,030 --> 00:03:54,350

the students met face-to-face for the

67

00:04:00,580 --> 00:03:57,040

first time at NASA Lewis research center

68

00:04:03,490 --> 00:04:00,590

prior to this link up the only contact

69

00:04:06,490 --> 00:04:03,500

these students had was by telephone and

70

00:04:07,990 --> 00:04:06,500

fax machines each team was assigned a

71

00:04:10,390 --> 00:04:08,000

life-support system that they were

72

00:04:12,880 --> 00:04:10,400

responsible for bringing to the colony

73

00:04:16,479 --> 00:04:12,890

once they completed that they worked on

74

00:04:18,760 --> 00:04:16,489

team uniforms sensing the identity of

75

00:04:21,820 --> 00:04:18,770

their team and recognizing that

76

00:04:23,530 --> 00:04:21,830

artistically in creating a uniform they

77

00:04:26,500 --> 00:04:23,540

packed their own lunches according to

78

00:04:29,230 --> 00:04:26,510

very strict Marvel regulations and then

79

00:04:31,300 --> 00:04:29,240

they had to talk to teams from other

80

00:04:34,720 --> 00:04:31,310

schools they were grouped by three and

81

00:04:35,920 --> 00:04:34,730

four teams at peace and decide how they

82

00:04:37,659 --> 00:04:35,930

were going to build these inflatable

83

00:04:39,460 --> 00:04:37,669

habitats when they got here today they

84

00:04:42,159 --> 00:04:39,470

never met in person before they were

85

00:04:44,170 --> 00:04:42,169

here today the student teams each hand

86

00:04:48,000 --> 00:04:44,180

to design a support system for a

87

00:04:51,190 --> 00:04:48,010

specific area life support

88

00:04:55,150 --> 00:04:51,200

communications food production and

89

00:04:58,840 --> 00:04:55,160

delivery environmental control or waste

90

00:05:02,050 --> 00:04:58,850

management the modules were designed and

91

00:05:02,770 --> 00:05:02,060

built before arrival at Mars ville while

92

00:05:05,290 --> 00:05:02,780

construction

93

00:05:07,690 --> 00:05:05,300

was going on each team sent

94

00:05:11,890 --> 00:05:07,700

representatives to be evaluated in two

95

00:05:13,480 --> 00:05:11,900

areas uniforms and meal selections they

96

00:05:15,550 --> 00:05:13,490

were asked questions about their

97

00:05:18,760 --> 00:05:15,560

uniforms by members of the office of

98

00:05:21,700 --> 00:05:18,770

educational programs staff the meals

99

00:05:24,250 --> 00:05:21,710

were evaluated on content if they

100

00:05:27,879 --> 00:05:24,260

contain the four food groups and by

101
00:05:30,010 --> 00:05:27,889
weight after all these meals would have

102
00:05:33,790 --> 00:05:30,020
to travel about a hundred forty 1

103
00:05:35,760 --> 00:05:33,800
million miles before being consumed also

104
00:05:38,080 --> 00:05:35,770
looked at was recyclability and

105
00:05:42,130 --> 00:05:38,090
usability of food wrappers and

106
00:05:44,890 --> 00:05:42,140
containers after the ten habitat pods

107
00:05:48,130 --> 00:05:44,900
were completed the students toured the

108
00:05:50,260 --> 00:05:48,140
Mars Ville complex as they stopped in

109
00:05:52,990 --> 00:05:50,270
the different pods the home team

110
00:05:56,140 --> 00:05:53,000
explained their ideas and systems asked

111
00:05:58,870 --> 00:05:56,150
questions and gave their views before

112
00:06:01,210 --> 00:05:58,880
the visitors moved on bonus cards were

113
00:06:04,540 --> 00:06:01,220

exchanged on the basis of responses

114

00:06:07,870 --> 00:06:04,550

personal recognition and for a job well

115

00:06:10,390 --> 00:06:07,880

done after lunch the students then

116

00:06:13,990 --> 00:06:10,400

converted the individual pods of Mars

117

00:06:17,080 --> 00:06:14,000

Ville into a community Mars Ville the

118

00:06:19,210 --> 00:06:17,090

cosmic village they did this by

119

00:06:22,210 --> 00:06:19,220

constructing interconnect tunnels

120

00:06:25,480 --> 00:06:22,220

between adjoining pods when this was

121

00:06:28,150 --> 00:06:25,490

completed all of the pods were connected

122

00:06:31,420 --> 00:06:28,160

and the students revisited each of the

123

00:06:33,520 --> 00:06:31,430

pods by starting at one end and using

124

00:06:37,659 --> 00:06:33,530

the tunnels to move from pod to pod

125

00:06:39,760 --> 00:06:37,669

until the emerge from the last one at

126

00:06:42,250 --> 00:06:39,770

the conclusion of the day's activities

127

00:06:43,960 --> 00:06:42,260

the pods were deflated and the

128

00:06:47,290 --> 00:06:43,970

participants were asked to evaluate

129

00:06:48,850 --> 00:06:47,300

today's events the students were also

130

00:06:51,790 --> 00:06:48,860

presented with certificates of

131

00:06:55,630 --> 00:06:51,800

participation here are some comments

132

00:06:56,260 --> 00:06:55,640

from participants those kind of fun

133

00:06:59,320 --> 00:06:56,270

thing

134

00:07:02,770 --> 00:06:59,330

how to do it how to make the tunnels and

135

00:07:05,380 --> 00:07:02,780

tells the tunny tunnel maker and boom

136

00:07:14,749 --> 00:07:05,390

over did a lot of help with me today and

137

00:07:23,189 --> 00:07:17,969

we weren't we never fought together we

138

00:07:24,119 --> 00:07:23,199

never had never done especially I really

139

00:07:25,979 --> 00:07:24,129

thought we were going to fight because

140

00:07:28,129 --> 00:07:25,989

we have never seen these people and I

141

00:07:31,730 --> 00:07:28,139

thought you're like

142

00:07:34,850 --> 00:07:31,740

that's going at your face there are

143

00:07:37,040 --> 00:07:34,860

really nice people I think that smiles

144

00:07:39,649 --> 00:07:37,050

on their face says it all and I think

145

00:07:41,450 --> 00:07:39,659

the group collaboration efforts were

146

00:07:43,969 --> 00:07:41,460

wonderful I they just they did a great

147

00:07:45,559 --> 00:07:43,979

job and so proud of them you know today

148

00:07:48,709 --> 00:07:45,569

we're pretending that we're in the

149

00:07:52,189 --> 00:07:48,719

future we're pretending that we're

150

00:07:56,029 --> 00:07:52,199

building this bridge to know in the

151

00:07:58,969 --> 00:07:56,039

future it is not impossible to dream

152

00:08:01,939 --> 00:07:58,979

that maybe in 20 years to 30 years from

153

00:08:05,529 --> 00:08:01,949

now that some of you seated on this

154

00:08:07,879 --> 00:08:05,539

floor may be driving through this gate