



1  
00:00:12,150 --> 00:00:09,509  
the decision to establish an american

2  
00:00:13,990 --> 00:00:12,160  
space station in the 1990s has had some

3  
00:00:15,749 --> 00:00:14,000  
exciting consequences

4  
00:00:17,910 --> 00:00:15,759  
in particular there is renewed interest

5  
00:00:20,070 --> 00:00:17,920  
in using the space station to help us

6  
00:00:23,429 --> 00:00:20,080  
return to the moon in order to build a

7  
00:00:27,509 --> 00:00:25,590  
america's exploration of the moon ended

8  
00:00:28,790 --> 00:00:27,519  
12 years ago with the flight of apollo

9  
00:00:30,390 --> 00:00:28,800  
17.

10  
00:00:32,630 --> 00:00:30,400  
astronauts cernan and schmidt

11  
00:00:35,750 --> 00:00:32,640  
successfully completed a series of three

12  
00:00:37,670 --> 00:00:35,760  
evas and brought back 250 pounds of

13  
00:00:40,470 --> 00:00:37,680

lunar rock samples

14

00:00:42,630 --> 00:00:40,480

during the 12 years following apollo 17

15

00:00:45,030 --> 00:00:42,640

nasa's goals for long-term space

16

00:00:46,790 --> 00:00:45,040

exploration have been redefined

17

00:00:49,830 --> 00:00:46,800

at a recent scientific conference in

18

00:00:52,069 --> 00:00:49,840

washington dc plans for a manned lunar

19

00:00:54,310 --> 00:00:52,079

base were discussed in the post space

20

00:00:55,910 --> 00:00:54,320

station era

21

00:00:57,110 --> 00:00:55,920

the lunar base is one of the more

22

00:00:59,430 --> 00:00:57,120

obvious

23

00:01:02,790 --> 00:00:59,440

of the bold exciting goals we can reach

24

00:01:04,710 --> 00:01:02,800

through the space station doorway

25

00:01:06,550 --> 00:01:04,720

the goal of a lunar base has long been

26

00:01:08,310 --> 00:01:06,560

our vision

27

00:01:10,469 --> 00:01:08,320

the exploration and settlement of the

28

00:01:12,630 --> 00:01:10,479

space frontier is going to occupy the

29

00:01:14,950 --> 00:01:12,640

creative thoughts and the creative

30

00:01:18,230 --> 00:01:14,960

energies of major portions of

31

00:01:19,990 --> 00:01:18,240

generations for the indefinite future

32

00:01:22,070 --> 00:01:20,000

with the success of the space shuttle in

33

00:01:24,390 --> 00:01:22,080

providing new space capabilities

34

00:01:27,190 --> 00:01:24,400

transportation scientific facilities and

35

00:01:30,310 --> 00:01:27,200

satellite launch retrieval and repair we

36

00:01:33,030 --> 00:01:30,320

are ready for the next step into space

37

00:01:34,630 --> 00:01:33,040

a manned space station

38

00:01:36,789 --> 00:01:34,640

the space station will serve as a

39

00:01:39,670 --> 00:01:36,799

staging area for other major space

40

00:01:42,710 --> 00:01:39,680

activities on the moon and beyond

41

00:01:44,950 --> 00:01:42,720

all this technology we will have

42

00:01:47,510 --> 00:01:44,960

with the space station takes us

43

00:01:49,109 --> 00:01:47,520

virtually to the moon we see

44

00:01:50,469 --> 00:01:49,119

the first base the very first thing to

45

00:01:52,069 --> 00:01:50,479

go down will probably be something very

46

00:01:54,149 --> 00:01:52,079

much like space station modules which

47

00:01:55,990 --> 00:01:54,159

will be carted to the surface and buried

48

00:01:57,670 --> 00:01:56,000

the transportation system will be such

49

00:01:58,550 --> 00:01:57,680

that there will be largely unmanned

50

00:02:03,749 --> 00:01:58,560

vehicles

51  
00:02:05,590 --> 00:02:03,759  
that will go from earth orbit to lunar

52  
00:02:07,109 --> 00:02:05,600  
space and then a lander which will go

53  
00:02:08,710 --> 00:02:07,119  
between orbit and the surface of the

54  
00:02:13,270 --> 00:02:08,720  
moon

55  
00:02:15,910 --> 00:02:13,280  
of raw materials for use in space

56  
00:02:19,110 --> 00:02:15,920  
this lunar base concept shows a vehicle

57  
00:02:21,589 --> 00:02:19,120  
mining lunar surface material

58  
00:02:23,589 --> 00:02:21,599  
moon rocks are more than half oxygen and

59  
00:02:25,750 --> 00:02:23,599  
could supply this vital component for

60  
00:02:27,670 --> 00:02:25,760  
sustaining a lunar base and a space

61  
00:02:29,750 --> 00:02:27,680  
transportation system

62  
00:02:33,270 --> 00:02:29,760  
other important elements aluminum

63  
00:02:36,070 --> 00:02:33,280

titanium silicon and iron also exist in

64

00:02:37,589 --> 00:02:36,080

quantity on the moon

65

00:02:39,670 --> 00:02:37,599

the lunar base would serve as a

66

00:02:41,589 --> 00:02:39,680

springboard for spacecraft to explore

67

00:02:43,589 --> 00:02:41,599

our solar system

68

00:02:46,229 --> 00:02:43,599

the moon also provides scientists

69

00:02:48,470 --> 00:02:46,239

excellent conditions for astronomy no

70

00:02:53,110 --> 00:02:48,480

atmosphere frequent periods of total

71

00:02:54,869 --> 00:02:53,120

darkness and low amounts of radio noise

72

00:02:57,750 --> 00:02:54,879

if a commitment is made for a manned

73

00:02:59,430 --> 00:02:57,760

lunar base in the 21st century then it