



1
00:00:46,790 --> 00:01:41,929

I

2
00:01:46,050 --> 00:01:44,340

today we kick off our anniversary year

3
00:01:47,399 --> 00:01:46,060

by unveiling our time capsule in

4
00:01:49,620 --> 00:01:47,409

commemoration of that original

5
00:01:54,300 --> 00:01:49,630

groundbreaking of this laboratory on

6
00:01:56,910 --> 00:01:54,310

january 23rd 1941 this sculpture serves

7
00:01:59,880 --> 00:01:56,920

as a symbol of not only a proud past but

8
00:02:01,770 --> 00:01:59,890

also as a commitment to the future to

9
00:02:10,910 --> 00:02:01,780

begin the celebration I'd like to

10
00:02:17,339 --> 00:02:14,430

hold that thing down try to build

11
00:02:18,930 --> 00:02:17,349

suspense ladies and gentlemen goodness

12
00:02:20,009 --> 00:02:18,940

what a wonderful turnout ladies and

13
00:02:23,280 --> 00:02:20,019

gentlemen honored guests and visitors

14

00:02:25,860 --> 00:02:23,290

this is just great thank you so much for

15

00:02:27,930 --> 00:02:25,870

being part of this kickoff event where

16

00:02:30,660 --> 00:02:27,940

we look back on 50 years of proud

17

00:02:33,030 --> 00:02:30,670

history and look forward to 50 years of

18

00:02:35,210 --> 00:02:33,040

grand challenge and I think you'll

19

00:02:38,670 --> 00:02:35,220

notice as we for the second time today

20

00:02:41,490 --> 00:02:38,680

unveil our special sculpture which I am

21

00:02:43,259 --> 00:02:41,500

proud to say was done the artistry was

22

00:02:46,410 --> 00:02:43,269

done by a Lewis employee who you'll meet

23

00:02:49,470 --> 00:02:46,420

a little bit later on that employee mr.

24

00:02:52,490 --> 00:02:49,480

Frank calcio using computer-aided design

25

00:02:56,190 --> 00:02:52,500

and manufacturing Kadim equipment

26
00:02:59,129 --> 00:02:56,200
developed the final design the finished

27
00:03:02,220 --> 00:02:59,139
design consists of a pedestal 62 inches

28
00:03:05,220 --> 00:03:02,230
high holding a sphere 36 inches in

29
00:03:08,009 --> 00:03:05,230
diameter with an 85 inch long band

30
00:03:11,970 --> 00:03:08,019
mounted on the sphere in an orbital

31
00:03:14,490 --> 00:03:11,980
configuration the initial idea of the

32
00:03:17,910 --> 00:03:14,500
time capsule was conceived by the 50th

33
00:03:20,580 --> 00:03:17,920
anniversary committee key personnel from

34
00:03:23,839 --> 00:03:20,590
various organizations met weekly to

35
00:03:26,430 --> 00:03:23,849
advise and coordinate its development

36
00:03:28,800 --> 00:03:26,440
Lewis employees as well as support

37
00:03:31,319 --> 00:03:28,810
service contractors work together to

38
00:03:34,830 --> 00:03:31,329

prepare the site and manufacture and

39

00:03:37,979 --> 00:03:34,840

assemble the sculpture a template of the

40

00:03:41,309 --> 00:03:37,989

pedestal was made of plywood using Kadim

41

00:03:44,220 --> 00:03:41,319

drawings as a guide this template was

42

00:03:47,400 --> 00:03:44,230

used as a pattern to cut foam slabs to

43

00:03:49,830 --> 00:03:47,410

the correct size and shape these pieces

44

00:03:52,290 --> 00:03:49,840

of foam were glued together to create

45

00:03:55,300 --> 00:03:52,300

the full-size model of the

46

00:03:57,310 --> 00:03:55,310

the phone model was then hollowed out to

47

00:04:00,430 --> 00:03:57,320

a wall thickness of one and a half to

48

00:04:03,250 --> 00:04:00,440

two inches needed to satisfy good design

49

00:04:07,060 --> 00:04:03,260

requirements of an aluminum casting this

50

00:04:09,310 --> 00:04:07,070

size and shape the full size foam

51
00:04:12,060 --> 00:04:09,320
pattern was then placed in a core box

52
00:04:15,310 --> 00:04:12,070
and backfilled with foundry sand

53
00:04:17,830 --> 00:04:15,320
creating a styrofoam cavity which will

54
00:04:21,729 --> 00:04:17,840
vaporize and be displaced by molten

55
00:04:25,540 --> 00:04:21,739
aluminum this process is known as lost

56
00:04:28,600 --> 00:04:25,550
foam casting the entire casting was

57
00:04:31,950 --> 00:04:28,610
ground smooth and shot blasted to

58
00:04:34,690 --> 00:04:31,960
achieve the desired surface texture

59
00:04:36,610 --> 00:04:34,700
while a pedestal was being prepared the

60
00:04:40,270 --> 00:04:36,620
halves of the sphere were spun from

61
00:04:42,220 --> 00:04:40,280
stainless steel plate an access hole was

62
00:04:45,760 --> 00:04:42,230
machined through the base of the sphere

63
00:04:48,010 --> 00:04:45,770

to provide a loading port the halves

64

00:04:53,200 --> 00:04:48,020

were then welded together and polished

65

00:04:55,810 --> 00:04:53,210

to a smooth finish here at Lewes the

66

00:04:58,150 --> 00:04:55,820

third element of the design the orbit

67

00:05:00,520 --> 00:04:58,160

piece was cut from a long strip of

68

00:05:03,280 --> 00:05:00,530

stainless steel which was then formed to

69

00:05:05,440 --> 00:05:03,290

shape in a rolling press the bronze

70

00:05:08,770 --> 00:05:05,450

color is due to an unusual heat

71

00:05:11,350 --> 00:05:08,780

treatment the completed site is now

72

00:05:15,430 --> 00:05:11,360

ready to receive the sculpture as the

73

00:05:17,860 --> 00:05:15,440

dedication day draws near captures the

74

00:05:20,470 --> 00:05:17,870

notion of building on the foundation of

75

00:05:22,330 --> 00:05:20,480

our 50 years past and looks forward to

76

00:05:24,880 --> 00:05:22,340

exciting 50 years in front of us and

77

00:05:28,690 --> 00:05:24,890

it's just wonderful and I'm going to

78

00:05:30,880 --> 00:05:28,700

call up the assistant unveil errs now

79

00:05:32,530 --> 00:05:30,890

that we've seen how can be done to join

80

00:05:35,290 --> 00:05:32,540

me you have two former center directors

81

00:05:36,760 --> 00:05:35,300

in the group to jon kleinberg our most

82

00:05:42,450 --> 00:05:36,770

recent center director please join me

83

00:05:50,230 --> 00:05:45,790

Eddie go Hannah before John our sanitary

84

00:05:53,080 --> 00:05:50,240

code running and Lewis research center

85

00:05:55,450 --> 00:05:53,090

is particularly a community product and

86

00:05:57,550 --> 00:05:55,460

as we move into our celebratory year I

87

00:05:59,710 --> 00:05:57,560

think all of us wish to emphasize the

88

00:06:01,690 --> 00:05:59,720

sense of community we have with us a

89

00:06:03,040 --> 00:06:01,700

very close friend of the center and a

90

00:06:05,320 --> 00:06:03,050

very prominent member of the media

91

00:06:07,090 --> 00:06:05,330

community help us celebrate today and

92

00:06:20,129 --> 00:06:07,100

has a few words about the community

93

00:06:25,689 --> 00:06:23,350

you should be proud you know we all know

94

00:06:29,200 --> 00:06:25,699

that we live in the greatest city in

95

00:06:30,909 --> 00:06:29,210

america for a variety of reasons we live

96

00:06:33,339 --> 00:06:30,919

here because we love it and the legacy

97

00:06:35,589 --> 00:06:33,349

that we want to leave is that it's not

98

00:06:38,020 --> 00:06:35,599

only a great place to live but to work

99

00:06:40,390 --> 00:06:38,030

to play and raise a family and you are

100

00:06:43,510 --> 00:06:40,400

that reason for that don't ever lose

101

00:06:44,980 --> 00:06:43,520

that kind of feeling thank you all for

102

00:07:56,440 --> 00:06:44,990

having me today I'm delighted to be here

103

00:08:02,390 --> 00:07:59,750

the capsule stands to greet employees

104

00:08:04,130 --> 00:08:02,400

and visitors extending a special thank

105

00:08:06,520 --> 00:08:04,140

you to those who contributed their