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Dirigo Star Time Capsule Unveiling

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Dirigo Star Time Capsule Unveiling

Video recording of the University of Maine Advanced Structures and Composites Center presenting a 3D-printed Dirigo Star to the Maine Bicentennial Commission to be the core component of the Maine State Bicentennial Time Capsule.

March 15, 2021

Run Time : 00:36:00

<https://youtu.be/M223H48n5LA>

Transcript is machine generated, unedited, in English.

TRANSCRIPT:

12:26

thank you for

12:26

taking the time to be with us today uh

12:29

i'd like to introduce

12:30

uh university maine quartet they're

12:32

gonna play something for us

12:46

[Music]

13:03

[Applause]

13:04

so

13:10

[Music]

13:18

so

13:20

[Music]

13:43

[Music]

13:52

[Music]

13:59

[Music]

14:22

thank you for wonderful music here for

14:25

us to get

14:25

to get going thank you all for

14:28

taking the time to be with us today can

14:30

you hear me okay

14:33

it's really a great pleasure for us to

14:35

have the commission here

14:37

as well as our legislator and friends

14:40

who are here as well

14:41

but and our chancellor jason malloy

14:44

thanks for

14:45

the time uh taking the time to be with

14:47

us today

14:48

i'd like to introduce dr joan torini

14:50

mundy president of the university of

14:52

maine

14:52

and the university of maine at machias

14:55

and also university maine system vice

14:57

chancellor for research and innovation

15:01

dr john ferrini mundi earned her phd in

15:04

mathematics education
15:07
from the university of new hampshire in
15:08
1980
15:10
after serving as a faculty member in
15:12
math at unh
15:14
and michigan state university in 2007
15:18
she joined the national science
15:20
foundation as the director
15:22
of the new division for research on
15:25
learning
15:25
in formal and informal settings and
15:28
later
15:29
in 2011 became the assistant director of
15:32
the national science foundation
15:34
director for education and human
15:36
resources
15:38
then in 2017 she was appointed as the
15:41
chief
15:42
operating officer of the national
15:44
science foundation
15:45
now it doesn't get better than that on
15:47
the one year later
15:49

we're so lucky that she left nsf to
15:52
become the 21st president of the
15:54
university of maine
15:55
please help me welcome president
15:57
ferreini mundus
15:58
[Applause]
16:04
good afternoon everybody what a happy
16:06
event i'd like to thank caleb thurston
16:08
of cumberland this is our quartet emily
16:10
dunlap of old town
16:12
jacob lamontagne
16:15
i'm sorry jacob lamontagne of berwick
16:20
and sarah
16:21
quailey of norwich walk for that
16:22
terrific arrangement of the main stein
16:24
song some of us actually
16:26
stood up and cheered you on and i want
16:28
to say that hearing those woodwinds with
16:30
the bags
16:30
works just fine you sounded great thank
16:32
you very much
16:37
so as a beef said i'm joan friedemundi
16:39

the president of umaine and our regional
16:41
campus the university of maine at
16:42
machias
16:43
and i'm delighted to welcome everyone
16:45
this afternoon for the university of
16:46
maine
16:47
university maine recognizes that we are
16:49
located on marsh island
16:51
in the homeland of the penobscot nation
16:53
where issues of water and territorial
16:55
rights and encroachment upon sacred
16:57
sites are ongoing
16:59
penobscot homeland is connected to the
17:01
other wabanaki tribal nations
17:04
the pasamaquadi malaysia and mikmaq
17:06
through kinship
17:07
alliances and diplomacy the university
17:10
also recognizes that the penobscot
17:12
nation
17:13
and the other wabanaki tribal nations
17:16
are distinct
17:17
sovereign legal and political entities
17:19

with their own powers
17:20
of self-governance and
17:22
self-determination
17:24
acknowledging this takes on heightens
17:25
importance today
17:27
here on the 201st anniversary of maine's
17:29
statement
17:30
a significant marker that has vastly
17:32
different meanings
17:34
to those who now share this land for
17:37
thousands of years the wabanaki people
17:38
made use of the resources
17:40
on these lands with depleting them
17:43
without depleting them
17:45
and by honoring the interconnectedness
17:46
of all things in the natural world
17:49
their innovative stewardship enables us
17:51
to be here today
17:52
and offers us lessons about sustainable
17:55
practices
17:56
including using all parts of what we
17:58
take from the forest
17:59

like the wood residuals being used in
18:01
additive manufacturing
18:03
here at the advanced structures and
18:04
composite center
18:06
we are here today on this happy event to
18:08
unveil the dirigo star
18:10
and turn over this 3d printed time
18:13
capsule
18:14
made right here by the talented staff
18:16
and students that you see before you
18:18
to the main bicentennial commission
18:20
chaired by senator bill diamond
18:22
a graduate of our sister university in
18:24
southern maine and a champion of our
18:26
universities in augusta the north star
18:30
after which this capsule
18:31
is modeled has been a constant guide to
18:34
the people who lived on this land
18:36
and before and since statehood
18:39
it is meant to symbolize our state's
18:40
leadership
18:42
today it also shines a light on the
18:44

talent and innovation

18:46

that have been produced by our flagship

18:48

land-grant university

18:50

since 1865 and we are increasingly

18:53

elevating maine in our nation and around

18:55

the globe

18:56

ascc has been a big part of that and as

18:59

we look to the future

19:01

this internationally recognized center

19:03

and the university of maine will have an

19:05

even even greater impact in shaping

19:07

maine

19:07

and its place in our changing world

19:11

from addressing climate change by

19:13

harnessing our offshore winds

19:15

to improving rural health and

19:16

educational outcomes

19:18

to helping our businesses and

19:20

communities recover from this terrible

19:22

pandemic

19:23

through innovation in our heritage

19:25

industries and through educating the

19:27

talented
19:27
nurses teachers engineers and computer
19:30
sciences
19:31
for scientists from maine our university
19:34
will lead maine
19:35
in solving its grand challenges and
19:37
supporting economic growth
19:38
and social mobility for the next two
19:40
hundred years
19:42
as maine's only public research
19:43
university umaine has capabilities to
19:46
design a historic project like this
19:48
in large part thanks to the decades of
19:51
generous
19:52
state and federal support including that
19:54
by the legislature
19:56
through the maine economic improvement
19:58
fund which invests in research and
20:00
development at all of our public
20:01
universities
20:02
and especially at our flagship including
20:04
the ascc
20:06

thank you in recognition of both
20:09
that long-standing support and the
20:11
challenges that coven 19
20:13
has created for the commission's
20:14
fundraising effort i am pleased to
20:16
announce that we are donating the full
20:18
cost of the ascc's dirigo star capsule
20:21
development and production
20:22
in the hope that that gift allows for
20:25
the limited resources that are available
20:27
to support the bicentennial to be used
20:29
and invested directly in maine
20:30
[Music]
20:32
communities
20:42
including through the successful school
20:43
and community grants programs
20:46
before i introduce ascc founding
20:49
executive director habib dagger back to
20:51
you again
20:52
to talk about the creation of dirigo
20:54
star and introduce you to his team
20:56
thank you i do want to recognize several
21:00

of our distinguished guests
21:01
who are here today secretary of state
21:04
shannon bellows who was a wonderful
21:05
friend of our university sadeshi
21:08
here okay where she served in the
21:11
legislature and will continue to be a
21:13
partner
21:14
senator jim dill jim then representative
21:17
laurie osha
21:19
here who have numerous other leadership
21:20
roles in the communities of orono and
21:22
old town
21:23
and have made vital contributions to the
21:25
university in their roles as faculty
21:27
members
21:28
dana connors president of the maine
21:29
state chamber of commerce
21:31
and a very proud university maine alum
21:34
who also received an honorary degree
21:36
from umaine in 2015
21:38
and chancellor daniel malloy whose
21:40
incredible leadership of our university
21:41

of maine system
21:42
especially during this pandemic and his
21:45
vision for how our universities can
21:46
drive growth
21:47
and transform maine have been
21:51
essential and position us so well for
21:52
our next 200 years
21:54
thank you all for being here and to
21:57
senator diamond and the bicentennial
21:59
commission thank you for entrusting our
22:00
university with this important
22:02
responsibility
22:03
we are deeply honored to present this
22:05
gift made by our faculty staff and
22:07
students
22:07
to the people of maine and we are so
22:10
proud that it will be on public display
22:11
for the coming century
22:13
as a reminder of what the people of this
22:15
great state are capable
22:17
of creating with that i would like to
22:20
turn this back over to having thank you
22:24

all

22:29

thank you president farini mundi

22:34

i'd like to first start by thanking

22:36

everyone who worked

22:37

on making the the dairy go star so i'd

22:40

like to ask

22:41

everyone involved in making the star to

22:43

please rise

22:45

and be recognized thank you

22:51

you have a combination of professionals

22:54

here

22:54

david erb and john roy who have been

22:58

working on this for quite some time and

22:59

led the team that did it

23:01

alex cole as well jaina elwell

23:05

danny pham dana mishu and forrest

23:08

wentworth thank you for all your work to

23:10

to make this happen

23:12

then james anderson at the very back as

23:14

well who

23:16

is his key has been key to our additive

23:18

manufacturing programs i want to thank

23:20

every one of you for making this happen

23:22

i know it wasn't easy in the pandemic to

23:24

get this done

23:26

but what's really unique about this is

23:28

that it brings

23:29

a lot of our past research and and

23:32

points us to the future research that

23:34

we're heading

23:35

towards if you look at the three derigo

23:37

out there that james anderson and others

23:39

have printed

23:40

a piece of that three dirigo dna is in

23:42

that star

23:44

if you look right behind me right here

23:46

we have a 60-foot

23:47

bridge girder about to be tested that

23:50

girder is made out of composites 1 6

23:52

lighter than steel and just about a

23:55

month ago we placed a bridge like this

23:58

in hamden main it's a on route 1 it's a

24:00

75 foot gooder bridge

24:03

the mold that that bridge was made of

24:06

was 3d printed

24:07

to test a bridge that you see right here

24:10

standing up that looks like a big

24:11

concrete chunk that was also

24:13

the mode for that was 3d printed so so a

24:16

lot of what you

24:17

you've seen here in the lab is part of

24:19

that dna but what's more important

24:21

is that what it means in the future

24:25

is it feasible to print bridges in the

24:27

future

24:28

is it feasible to print homes in the

24:29

future

24:31

is it feasible to print waterfront

24:33

facilities and

24:34

is it feasible to print parts of

24:35

floating wind turbines

24:37

is it feasible to print parts or blades

24:40

the answer is yes

24:41

and hopefully that star is a reminder

24:43

that all of this is possible

24:45

and we look forward to follow that star

24:47

in the future as we print these other
24:49
things
24:49
so so with this in mind i'd like to uh
24:54
do the unveiling uh part and uh
24:57
representing all the students who worked
24:58
on it
25:00
and now a professional jana you want to
25:02
come up yeah
25:04
jana has been working with us as a
25:06
student here
25:07
and just graduated now as a full-time
25:09
engineer with
25:11
worked with everyone here in printing
25:13
the star so jenna you want to come to
25:15
the other side please yeah
25:22
and we'll go ahead and unveil the star
25:24
which was made out of space age
25:26
composites
25:37
[Applause]
25:43
[Applause]
25:48
i think we all want to plan to be around
25:50
in 100 years to make sure it looks as as
25:52

good as it does today all right
25:54
so but again it could be done without
25:56
everyone again the the
25:57
the team here deserves a lot of credit
26:00
for doing all this
26:01
and now i'd like to to ask senator
26:04
diamond
26:05
chair the main bicentennial commission
26:07
uh
26:08
to come and say a few words
26:14
thank you very much uh have i appreciate
26:17
the introduction but isn't this
26:19
fantastic this is all of you stand again
26:21
to work
26:22
on this this is just wonderful thank you
26:24
john it's really really nice
26:29
we really appreciate all of that
26:32
present for you monday thank you for
26:34
having us again for hosting us
26:36
chancellor malloy thank you
26:39
i also would like to make again a
26:42
special thanks to the students and staff
26:44

who put so much time into this i know it
26:46
wasn't easy we all had to
26:48
make things work during this pandemic
26:51
thank you very very much
26:53
i do want to uh say a couple of things
26:55
quickly thank you
26:56
secretary of state shanna bellows i'll
26:58
tell you why
27:00
for being here number one but two
27:03
for allowing krista muzinski
27:06
to work so hard on this over the over
27:08
the last couple years she's done a
27:09
fantastic job so thank you for that
27:11
she's part of your staff
27:13
and she's really really excellent i also
27:16
want to say a word quickly about senator
27:18
doctor professor jim dill he's my seat
27:21
mate
27:22
in the senate he requires that i always
27:24
address him that way
27:26
so i had to make sure that i didn't
27:28
forget to do that
27:30

and i also want to point out that dana
27:32
connors who's on the commission
27:34
is here thank you dana for all the
27:36
fundraising you've done peter merrill
27:38
who's not here
27:39
is our treasurer and jamie ritter is
27:43
jamie
27:43
jamie here maine state librarian
27:47
he's also played a critical role in all
27:50
of this so we
27:50
we appreciate all that i do want to
27:53
point out one thing madam president it's
27:55
okay
27:58
this flag as you can see is the
28:00
bicentennial flag
28:01
and the plan was is that i would go up
28:04
on top of the
28:05
dome and fly it which i did this morning
28:10
because we had to find the coldest day
28:12
with the
28:13
with the greatest wind gusts so we did
28:16
it this will be part of
28:17

the next hundred years and i wanted to

28:19

show you and

28:21

also say how much we appreciate the

28:23

design and all that's gone into making

28:25

all of this possible so

28:27

it did fly over the state house i can

28:28

guarantee that

28:30

and we did memorialize that flying so

28:32

thank you for that

28:38

the contributions by certainly by the

28:40

university of maine hornet all they've

28:42

done

28:42

with this shows how far maine has come

28:46

since 1820. the unveiling of this of

28:49

course kicks off

28:51

the time capsule program and it marks

28:54

the

28:54

this special moment in history

28:59

jason libby jason would you just raise

29:01

your hand just in case nobody knows you

29:02

jason

29:04

was is on the commission he's also

29:07

heading up the subcommittee that works
29:08
so hard
29:09
on this bicentennial capsule
29:12
the subcommittee did a lot of work
29:14
designing the dirigo star
29:16
and the banner and all the elements of
29:18
the main state seal which are part of it
29:21
and also unifying the symbols of the
29:23
main bicentennial which is the core
29:26
components of this time capsule
29:29
the star mounted will be mounted on top
29:31
of a custom made
29:33
tapered cabinet created by the main
29:35
heritage timber
29:37
the cabinet tape taper imagery of course
29:41
will look like and show the iconic main
29:44
lighthouses and the housing craft would
29:47
be wood
29:48
that's been reclaimed from the penobscot
29:51
river
29:52
so we tried to make they tried and he
29:54
did an excellent job bringing every
29:55

piece of maine into this tom
29:57
shaffer is tom here no tom schaefer of
30:00
the main heritage timber
30:02
he's going to be curating other
30:04
components the the metal dirigo banner
30:07
which will be mounted in the front would
30:09
be a two inch
30:10
thick polished main granite slab placed
30:13
on top of the cabinet
30:15
the reason we want to say a special
30:17
thank you to jamie ritter the main state
30:19
librarian because they will be housing
30:22
this capsule for the next 100 years
30:27
most of us will have to envision that
30:29
but that's what's just what's going to
30:30
happen
30:32
the cabinet also will have
30:35
a place for the commission to decide
30:37
what's going to be put in
30:39
which i think will be very exciting
30:41
there'll be four storage drawers
30:45
in each one of those drawers will be
30:46

opened at 25 year intervals
30:50
so first one will be opened in 2045
30:54
and then 2070 2095 and then of course
30:57
the grand unsealing
30:59
of will be happening we hope in 2120.
31:04
now this is kind of interesting the time
31:06
capsule keepers
31:08
will be the stewards of the time capsule
31:11
over the next
31:12
100 years all mainers
31:16
who were born on march 15th will be
31:19
the keepers so we thought that was
31:22
a very special edition that was that was
31:25
added to this
31:27
so people will be able to sign up
31:30
to be a keeper by going on a main200.org
31:34
and the keepers will all be recognized
31:37
at the public sealing ceremony
31:39
in the at the end of this year 2021.
31:43
as you can see there's been a lot of
31:45
planning put into this
31:47
again which is why we're so grateful to
31:49

the university of maine rno
31:51
and to the composite center and all the
31:53
people that work so hard
31:55
uh bringing this forward we have some
31:57
exciting plans for this year
32:00
all carried over from last year i might
32:02
add
32:03
we had to put the brakes on but we're
32:05
very excited about what's going to
32:06
happen this year we have the main state
32:08
bicentennial parade
32:10
which will happen sometime late summer
32:12
that's brought to us by
32:14
poland spring they're sponsoring that
32:15
and that'll be in lewiston auburn
32:18
the main 200 innovation expo presented
32:20
by cmp
32:21
and the maine technology institute will
32:24
be at
32:24
thompson's point later in the later in
32:27
the fall
32:28
and again these these events really
32:31

highlight

32:32

the umo's contribution to this we cannot

32:36

forget that nor will we

32:37

but the contribution from this

32:39

university has just been fantastic

32:41

we hope to have a 3d printed boat

32:44

in the parade for show and also at the

32:47

expo

32:48

statehood day ceremony again this summer

32:51

and the tall ships did not hurt about

32:54

this

32:54

tall ships which we had planned thanks

32:56

to david cheever by the way

32:58

who was the vice president of the

33:00

commission

33:01

worked really hard we had tall ships

33:03

coming from all over the world

33:05

to go up and down the coast and it's

33:07

going to be magnificent

33:09

i think you're going to really uh see

33:12

when you see that you're going to see

33:13

how much fun that's going to be so we're

33:14

really excited about all these things
33:17
and i again thanks to dave cheever for
33:19
for all of his work on the commission
33:21
but especially for working
33:22
so hard on those on the ships
33:26
so go to see cmain.org 200.org if you
33:29
want to get any updates
33:31
which we hope you'll follow closely and
33:32
again thanks again to the university of
33:34
maine for the composite star
33:37
because this will be a monument to our
33:38
history our great university
33:41
and our future as a state for another
33:44
hundred years at least
33:45
so thank you very much for all you've
33:47
done we very much appreciate everything
33:49
and we're grateful for the end result of
33:52
the star thank you very much
33:55
[Applause]
34:00
thank you senator diamond i'd like to
34:02
also thank the folks who helped us put
34:04
this together this event together
34:06

sam warren thank you for for all your
34:08
hard work megan collins
34:10
and amber thompson right in the back so
34:12
let's give him give him a hand for
34:14
all the preparation now
34:18
we can go ahead and take some photos so
34:22
anyone who'd like to come and take some
34:23
photos and with the stars welcome to
34:26
come up
34:26
so following that we're going to do a
34:28
tour of the laboratory so you could see
34:30
how this was actually printed
34:32
and how other things are being printed
34:33
is also in the map so with this in mind
34:36
anybody would like to come up and take
34:37
some photos you're welcome to do so
35:00
okay
35:28
um
35:57
one two three

The University of Maine in Orono is the flagship campus of the University of Maine System, where efforts toward racial equity are ongoing, as is the commitment to facing a complicated and not always just institutional history. The University recognizes that it is

located on Marsh Island in the homeland of the Penobscot nation, where issues of water and its territorial rights, and encroachment upon sacred sites, are ongoing. Penobscot homeland is connected to the other Wabanaki Tribal Nations — the Passamaquoddy, Maliseet, and Micmac — through kinship, alliances, and diplomacy. The university also recognizes that the Penobscot Nation and the other Wabanaki Tribal Nations are distinct, sovereign, legal and political entities with their own powers of self-governance and self-determination.