station this is Houston

are you ready for the event Houston were

ready for the event I assess program

please call the station for a voice

check ISS Nicole and the rest of the

unity spacesuit gang here contact Nicole

great to hear from you we got you loud

and clear how about us got you loud and

clear and we are so excited to see you

all together on the ISS with that

stunning art spacesuit gianormous thanks

to all of you for joining us for this

global event today and we have a lot of

folks here in the Mission Control Center
as well some of our children from the hospitals here some astronauts and cosmonauts you'll recognize and also I wanted to point out a few very special supporters we have ian sion who is the artistic genius behind these suits we have Gary chilsen from ILC Dover who worked his spacesuit magic I will say along with the ILC team to create these wonderful pieces of art spacesuits Kevin long from MD Anderson MD Anderson was there with us right from the beginning who is the president of the tech
Medical Association we are taking this wider and broader across the planet

thank you for being here we want to thank the center directors office for supporting us and I want to pass on a very special thanks to the ISS program office we have Kenny Todd and Dylan Mathis down here with us and we know that we would not be seeing you guys up there with this suit today without their their very strong support of the project every step of the way and its global baby we have standing room only here in the visitors gallery a whole host of our
friends with suit parties going on

around the world at hospitals our
control centers and the cosmonautics

Museum in Moscow so we see you there in
the suit can you tell us to fish what
you thought when you saw those beautiful
colors pop out of cargo bag and how did
donning that suit feel well it's great
great question to call and just a quick
thank you big space thank you to
everyone who's supporting this program

especially to Nicole who put it together
but as the father of my own little
cancer ninja who's probably there today
thank you for making it happen as far as
this suit you know it's tricky to get into but it's worth it kind of like the real suit you have the reward of getting to go outside and see an amazing view and do all sorts of fun work outside this suit you have the reward of the opportunity or rather that the honor to represent the bravest kids in the world who actually put it together and you know it makes a nice fashion statement little nod to my eclectic style so I love it.

hey speaking of which last year was art expedition one Nicole so tell us how
this suit came to be well you know you

know thanks for those comments on the

suit and you look mahvelous

this suit unity is the third in a series

of suits hope was the first suit Courage

the second suit and unity is very

special because it was model after our

our peaceful our successful partnership

on the international space station

program Ian and I had the opportunity to

travel around the world to our ISS

partner headquarter cities and paint

with children in the hospitals there

with our astronaut and cosmonaut friends
fielder was with us and uriga Janko in Moscow we had Luca parmitano and Frank Divina in Cologne we had Aki and Satoshi with us in Japan and Jeremy and Dave Williams in Canada and just amazing we brought that artwork back to the US and Gary and the ILC Dover teen quilted it together to this beautiful suit we have here today and we have gone global and and I just want to you know this is part of what we do on station is improving life here on earth unity came up on spacex 12 we're very thankful to our spacex 12 partners for
that and I was wondering if you could
tell us a little bit about the science

that you guys will be working on

thanks to that cargo transfer well we

actually are very excited about the
different research that's going on some

of my favorite things are involved the

cell culture studies we're looking at

cardiac myocytes which are the muscle

cells in your heart and probably

what as Jack mentioned one of my

favorite experiments has actually been

looking at lung cancer cells and we are

trying a new method that the scientists

on the ground develop and testing it out
up here where the antibodies that recognize the cancer cells have a drug attached to them and they go out and try and specifically kill just the cancer cells which would be helpful in chemo therapies on the ground as well but because Jack's a fighter pilot he named him cancer seeking missiles which I thought was really kind of cool name thanks Peggy and you know we love it because we know that everything that's going on off the earth up there is helping us down here on the earth it's for the earth so thanks for
that we had a chance to see some of
the video that you guys put together we
were playing it here and it really has
inspired some questions from the
children and the huh schools around the
world that helped us paint unity we have
some of your fellow astronauts here to
ask those questions on behalf of the
children and we are going to start with
a Yoshi dad
[Music]
you guys going to see up there this is
optional she did with JAXA our first
question is for Randy and it is on
behalf of the children at St. Luke's.

International University in hospital and Randy Hospital in Tokyo so Randy.

how does living in space change our perspective on life well. A previous astronaut very appropriately said that you know the first day that you're in space you're looking for your hometown and maybe the second day you're looking for your home state or your home area and then by the third day maybe your home country and by the fourth day you're no longer looking at any of that you're a member of the human family.
race looking down at spaceship earth our

00:07:21,470 --> 00:07:25,700
home planet as a is a member of the

00:07:23,959 --> 00:07:28,969
billions of us that inhabit the planet

00:07:25,699 --> 00:07:30,529
and you can't come away changed looking

00:07:28,970 --> 00:07:33,980
at this beautiful blue marble you're

00:07:30,529 --> 00:07:36,199
going around every 90 minutes seeing you

00:07:33,980 --> 00:07:38,000
know the beauty of it as well as

00:07:36,199 --> 00:07:40,279
realizing that every experience you've

00:07:38,000 --> 00:07:41,660
ever had and every experience you know

00:07:40,279 --> 00:07:43,819
of every human that's been in ever in

00:07:41,660 --> 00:07:45,860
existence is down on that beautiful blue

00:07:43,819 --> 00:07:47,810
marble underneath you and you really

00:07:45,860 --> 00:07:50,090
come away it's really humbling it's very

00:07:47,810 --> 00:07:52,009
beautiful and and we work very hard to

00:07:50,089 --> 00:07:54,349
try and you know convey that with
everyone but bigger than that

perspective was perspective for me the

day that I found out my mother had

cancer and watching her battle cancer

for ten years

knowing the courage that it takes all

the little cancer fighters that are out

there that are part of this project it's

just amazing every kid that painted on

this suit and every kid that they

represent our real heroes and also the

courage that takes for the families you

know know that our hearts and prayers

are with you knowing the year taking
care of your little ones as they go

through this and as excited as we are

about seeing human beings make history

by stepping on another planet all of us

would much rather see us make cancer history before that happens

Randy those are just amazing words you
did a terrific job of conveying your
perspective from space and how it
applies to our plight here on the planet

this is Jeremy Hansen speaking now for
the Canadian Space Agency and I get the
honor of asking a question on behalf of
the children in Canada at South Lake
Regional Health Center in Toronto and Montreal Children's Hospital and to fish.

Loic has a question for you Louis a young boy you helped us paint the unity plate suit and last year in Montreal and his question is what effect does no gravity have on astronauts and do you get disorientated that tells the truth well first off that's a cool name look that is awesome that is awesome and yes you get a little disoriented but the beautiful part of the human brain is that it adapts pretty darn quickly so we actually start thinking in three
dimensions and and are able to orient

00:09:34,328 --> 00:09:39,609
ourselves a lot better as we go along

00:09:36,299 --> 00:09:41,828
you know there's some effects on muscles

00:09:39,610 --> 00:09:44,470
and bones but we've found ways to combat

00:09:41,828 --> 00:09:46,208
that so the biggest thing is just flying

00:09:44,470 --> 00:09:48,160
around and not running into stuff too

00:09:46,208 --> 00:09:50,919
often and and you get better as you go

00:09:48,159 --> 00:09:55,439
so I'm still a work in progress as Peggy

00:09:50,919 --> 00:09:57,370
will attest to but it's not so bad

00:09:55,440 --> 00:10:00,230
[Music]

00:09:57,370 --> 00:10:00,470
thanks to fish you guys look great up

00:10:00,230 --> 00:10:02,899
there

00:10:00,470 --> 00:10:05,149
this is Andy from East of the European

00:10:02,899 --> 00:10:07,818
Space Agency and I have a question for

00:10:05,149 --> 00:10:09,470
Paulo from all the children at the
Cologne University Hospital

international Cancer Center and they

would like to know what is the challenge

of working and living in zero-gravity

and how does it feel

thank you Andy thank you for the

question

it's a it's really interesting because

of course there are a lot of challenges

here I am an engineer and I'm a suppose

here doing things that are not part of

my background we get trained we get all

the help possible but still it's a
little bit challenging sometimes when

you don't fully understand what you're doing you're just repeating things but

from actually from a physical point of view I would say that there's a situation of microgravity it's very unusual and while you get adapted fairly quickly you still I mean I still try to behave like I am on earth am I used to so I try to walk with my feet towards what we call the floor and instead you have to become an extraterrestrial person you have to get rid of this gravity and this is a is a challenge as
00:11:19,399 --> 00:11:23,350
a beauty of being in space

258
00:11:25,409 --> 00:11:29,548
Thank You Paulo and let me just tell you

259
00:11:27,778 --> 00:11:34,318
look like a natural up there right now

260
00:11:29,548 --> 00:11:36,178
and we now have a question from Caleb

261
00:11:34,318 --> 00:11:38,159
cook Caleb is here with us he's a

262
00:11:36,178 --> 00:11:42,259
patient at Texas Children's Hospital and

263
00:11:38,159 --> 00:11:42,259
he has a question for two fish

264
00:11:43,549 --> 00:11:53,699
what is the most amazing thing you've

265
00:11:46,139 --> 00:11:56,399
ever seen in space boy that's a great

266
00:11:53,700 --> 00:11:58,410
question buddy and and I've I've seen so

267
00:11:56,399 --> 00:12:01,730
many things up here almost everything is

268
00:11:58,409 --> 00:12:05,429
really cool from your food to the

269
00:12:01,730 --> 00:12:08,039
experiments the Aurora's awesome looking

270
00:12:05,429 --> 00:12:10,259
out into the Stars is amazing but I

271
00:12:08,039 --> 00:12:12,509
think it's more a feeling of all of

00:12:10,259 --> 00:12:14,458
those things together and feeling like

00:12:12,509 --> 00:12:16,769
we as a team are getting to work

00:12:14,458 --> 00:12:19,169
together and and make a difference on

00:12:16,769 --> 00:12:22,169
the earth that that is the most special

00:12:19,169 --> 00:12:24,240
thing that I've experienced up here as

00:12:22,169 --> 00:12:27,929
far as what I've seen pretty much

00:12:24,240 --> 00:12:30,839
everything is is incredible so I can't

00:12:27,929 --> 00:12:33,439
narrow it down to just one well I'm

00:12:30,839 --> 00:12:37,880
gonna change that answer this suit

00:12:33,440 --> 00:12:40,260
coolest thing I've seen in space period

00:12:37,879 --> 00:12:45,899
we'll slather some awesome sauce on that

00:12:40,259 --> 00:12:47,730
okay two fish Peggy we have another

00:12:45,899 --> 00:12:51,000
special guest here with us today Mia's

00:12:47,730 --> 00:12:53,459
Fargo she is the singer and songwriter
of the beautiful song that you heard

earlier and she was a patient at Texas Children's Hospital as well and she'd

like to ask you a question so we've heard of the bottles out well since you're in space I think you are closer to God

I was wondering if you could please write down my message on a piece of paper and release it into outer space dear God please help us cure cancer for all the kids on the plane well you know I really loved your song it was quite beautiful and the words are very
inspiring and we don't have bottles up here but we can launch satellites and maybe we'll put your message in a satellite Thank You Peggy and we cannot wait to see that launching out from the airlock behind you there off the end of the Vermont the robotic arm that will be such a special moment and I know Mia is very thankful all of us here are very thankful for that and jack crew we'd like to tell you a little bit about what's going on with the art spacesuit next we have the exploration
art spacesuit that's being painted in

parallel with this activity they all

around the world by my children all

around the world we're really hoping

that this project will help us

facilitate more art and medicine

programs around the world and pediatric

cancer research to ISS and we're very

thankful to some of the angels on earth

like Alena kuzmenko we already have in

Moscow making this a reality around the

world we've saved this last question for

fielder who spent time with us in Moscow

painting with the children at the Moscow

world
Institute of pediatric oncology well

329
00:14:47,889 --> 00:14:54,448
shyest by Seva theater spasiba Sergei

330
00:14:51,188 --> 00:14:58,558
and cosmonauts Andre of Vidya dev is

331
00:14:54,448 --> 00:14:58,558
here with us to ask that question

332
00:15:03,120 --> 00:15:14,169
soon after my children collage linea

333
00:15:10,179 --> 00:15:15,579
cheese potato waffles Magica social

334
00:15:14,169 --> 00:15:18,069
scripting scattering with Lisa Valley

335
00:15:15,580 --> 00:15:21,160
music small have to keep mascara on

336
00:15:18,070 --> 00:15:23,230
spreche will receive a key of Ausmus

337
00:15:21,159 --> 00:15:25,459
here you can keep track insist you come

338
00:15:23,230 --> 00:15:28,589
on out of here Strom after last option

339
00:15:25,460 --> 00:15:28,589
[Music]

340
00:15:30,450 --> 00:15:34,990
special approach thank you very much

341
00:15:32,830 --> 00:15:39,129
everybody and first of all I would like

342
00:15:34,990 --> 00:15:40,960
to say hello Nicole Nicole thank you
very much you invite me in this program

I told you then hope should be it space

it's in space now now the my answer for

this question everybody for us we coming

to space like Patriots of our countries

but only when we looking from space to

earth planet we may see how beautiful

earth planet is and this planet it's our

home for what reason everybody in for

our expedition look here it's American

Italian Russians and International Space

Station it's really International Space

Station we are here and here is our

small home Earth Planet is our big home
and for us very terrible then sometimes

the child has this problem for what

reason Jake me everybody of us we

working with child and for this very

beautiful planet for very beautiful

child we have some toys ease Jake maybe

you show these storages and continued my

answer

and in Russian I should repeat just a

little in Russian spasiba well so as it

were pros

the Raggedy better so to pursue shame

maybe the most important thing that we

can only up here how beautiful and
fragile our home we just planet Earth

and so as well you should our solution

and we're hoping to do everything we can
to preserve it for you so that it could

only become more beautiful and less

fragile once again thank you so much for

inviting us the whole crew there with us

sharing in this Mia wanted to share some

of her wonderful Russian language skills

with you so very quickly

sharing in this Mia wanted to share some

of her wonderful Russian language skills

with you so very quickly

so ginormous thanks to all of you on the

awesome expedition 52 crew we are going
to close this out now we even did this

00:18:51,220 --> 00:18:57,940
in the 20 minutes awesomeness but as a

00:18:55,240 --> 00:19:01,120
special closing I am passing over to one

00:18:57,940 --> 00:19:03,808
more special guest Bethany would like to

00:19:01,119 --> 00:19:03,808
say a few words

00:19:09,269 --> 00:19:16,930
hi that I just wanted to say thank you

00:19:12,460 --> 00:19:18,190
to all the astronauts who are doing

00:19:16,930 --> 00:19:21,850
cancer research

00:19:18,190 --> 00:19:33,340
we all are making a big impact so thank

00:19:21,849 --> 00:19:35,439
you to us all all right well we're gonna

00:19:33,339 --> 00:19:39,039
we gotta prove that we're in space so

00:19:35,440 --> 00:19:40,600
they're gonna spin me just another big

00:19:39,039 --> 00:19:43,809
thanks to all of you for putting this

00:19:40,599 --> 00:19:47,529
together and to all the people at the

00:19:43,809 --> 00:19:50,379
hospitals like dr. Lai dr. Waguespack
you saved my cancer ninja and who

continued to keep the fight going for

all these wonderful brave and amazing

kids and you can see all of us are here

all six of us are here because this is

so important to all of us and thanks

again for putting this together Nicole

thanks to Houston for making it happen

thank you we love you guys

[Applause]

station this is Houston ACR that

concludes the event thank you

you