station this is Houston are you ready

for the event

we are ready for the event kgo-tv this

is Mission Control Houston

please call station for a voice check

station this is kgo-tv how do you hear

me we have you loud and clear welcome to

the International Space Station thank

you very much it's a pleasure to talk to

you we wanted to talk to you today about

taking pictures in space we have all

these wonderful photographs from you

guys and we want to know what what do

you most enjoy taking pictures of l
think all of us can agree that taking pictures of the earth is the most enjoyable every time we look down there's it's different that the lighting is different the clouds are different so even though we pass over the same place several times it just always looks a little different and for me that is definitely the most fun thing to take pictures of now that looks like a very heavy camera but I would imagine it's not so heavy in microgravity well that's part of the beauty of it is that you can maneuver a gun like this and be very
comfortable and moving it around and

point a different direction without any fatigue so it's a it's actually really nice it's correct this microphone I can let it go and and he stays there and and then you can maneuver it to whatever you need to be how much time do you guys have to take pictures up there and what sort of gear are you using is this a camera that I could go buy at a camera store

well I think you have to ask your employer that to make sure before you head off to that that to buy this
expensive camera I think they're pretty

44 00:02:00,989 --> 00:02:06,000 pricey but you certainly can that's

45 00:02:02,899 --> 00:02:10,769 their commercially available products

46 00:02:06,000 --> 00:02:12,560 that were that that we're using and it's

47 00:02:10,769 --> 00:02:14,730 it's it's really it's really pretty

48 00:02:12,560 --> 00:02:16,289 convenient to have such a selection that

49 00:02:14,729 --> 00:02:18,359 with that we have we have a wall of

50 00:02:16,289 --> 00:02:20,939 lenses and different camera bodies that

51 00:02:18,360 --> 00:02:22,650 we can use at any given time and it's

52 00:02:20,939 --> 00:02:24,359 usually in the evenings that we have

53 00:02:22,650 --> 00:02:27,420 personal time to take pictures but

54 00:02:24,360 --> 00:02:29,040 during the day there are certain events

55 00:02:27,419 --> 00:02:30,988 certain locations that are scheduled

56 00:02:29,039 --> 00:02:36,750 into our day that we that we try to get

57 00:02:30,989 --> 00:02:37,920 pictures of every workday when you're
taking pictures is it kind of like
taking travel photos it's kind of like
you're on a trip and you're taking
pictures out the window of the car or I
mean are there certain things that
you're that you're able to see from the
space station that you're just dying to
get a shot of when they happen yeah well
it a lot of times in fact our one of our
exercise pieces of exercise equipment is
right right and above or below the
cupola depending how you're looking at
it and a lot of times when I'm working
out I'll look up and and oh man I gotta
go get a picture something just as beautiful and so in that way it's very similar to vacation when you're traveling and you just have to stop you see some beautiful view that you want to take a picture of and so it's very similar in that way I mean how much does the scenery out the window change out how does earth fill the window are you always seeing different weather systems and different events does that make you feel like you're close to home yeah we we never get tired looking down the window and it's
something that we talk amongst ourselves

it's amazing how even though the orbit sooner or later will will let us pass again over someplace that we've already been it the earth is always perfect and always different it's constantly changing you never look outside and see something that you've seen before that is not somehow different the lighting the angle the cloud cover at sanglant so you you can never possibly get tired looking on the window and in this Corrine you think it's that's just
the beauty of these amazing sights

amazing sight that we have now

personally my favorite way to look out

the troop down on earth is when I when I

was outside using this camera and I

think Chris would agree with that that

is it that nothing can really beat that

so you have three different cameras

there's one would looks like a

very wide lens one with the long one

than that special one that's made for

going on spacewalks yeah that's that's

exactly right we're a little bit

tricking you with this white one it's

really the same camera body with with
thermal blanket material over the top of

it and and we can put whichever type of

lens we prefer for that particular

spacewalk and then the camera bodies are

the same on these two just with

different lenses and then we use some

unique lenses for inside shots when we

want to get a little wider perspective

on an air in a narrow space and then

obviously the longer lens here for

really trying to to zero in on on a

particular city or our hometown or

anything of interest that we're trying

to shoot outside I know I've seen you
guys take some selfies so to speak

some self portraits some trick photos

what stuff do you do with the cameras when you're off-duty there on the space station

well I think every crew of every expedition tries to trust to come out with something that can somehow identify them and that I think that's something very peculiar about our crew is that has been on the station I'm only slightly older than I am so we we
like to send down pictures to the ground
to the people that work with us every
day to let them know that we think of
care and then we're having fun and
even when things get hard and it's a
long day we still like to take a funny
pictures that where we are we're all
smiling or we hang out in some funny
position or something funny happen and
we like to to take a shot at that and
let people know that we're having fun
and it this is a great place to work and
then we're grateful for what for what
they do with us it fun is it
especially fun to be in microgravity are

there things you can do there to take
cool pictures that you couldn't do

otherwise actually yeah one of the one

of the coolest things well yeah you can

be Superman you can but also playing

with other objects that playing with

refraction of light and water I'm sure

you've seen those pictures where you get

a bubble of water in front of you and of

course in the water because of

refraction your face is upside down and

you just can't do that anywhere else

this is the only place that that's

possible so things like that really make
it fun now I wanted to talk real briefly

about that spacewalk and I know Luca you

were you had some tense moments there

can you guys talk a little bit about

what happened there

yeah for I think that for a couple of

minutes there may be more than a couple

of minutes I experienced what it's like

to be a goldfish in the fish ball from

the point of view of the other goldfish

so about half an hour into the EBA 45

minutes maybe Chris and I were way ahead

on our task so we were starting our our

third task and I felt some water on the
back of my head and I realized that it was cold water it was a it was not a normal feeling so I I talked down Chris came by to to give up to give it a look he couldn't see anything it took some pictures of it but it wasn't until a couple of minutes later that we actually saw the water trickling in the front of the helmet and then I felt it covering my ears and at that point we called the terminate for the EBA I started going back to the airlock and the water kept trickling until it completely covered my eyes and my nose
it was really hard to see I couldn't hear anything it was really hard to communicate I just went back using just memory basically going back to the airlock until I found it and then went inside and Chris was there in split seconds to come inside close the airlock and repressurize Karen was already there ready to repressurize our Russian colleagues were all there to help and they as soon as the two compartments were equalized they doffed meaning they took off my helmet wiped my face from all the water about 3 pounds 3
pounds of water I would say and and that

215
00:09:11,929 --> 00:09:18,859
was the end of it for me the worst part

216
00:09:14,950 --> 00:09:21,709
as Chris mentioned I was I was miserable

217
00:09:18,860 --> 00:09:23,149
but ok it's just him imagine walking

218
00:09:21,708 --> 00:09:25,250
around with your eyes closed in a

219
00:09:23,149 --> 00:09:27,740
fishbowl really that that what was going

220
00:09:25,250 --> 00:09:29,389
on at the at the pump and the moment

221
00:09:27,740 --> 00:09:31,879
it's just a very uncomfortable feeling

222
00:09:29,389 --> 00:09:35,480
to be with your with your face

223
00:09:31,879 --> 00:09:37,309
underwater for for all that time but the

224
00:09:35,480 --> 00:09:39,079
reaction of the crew was outstanding I

225
00:09:37,309 --> 00:09:41,448
think the crew on the ground and the

226
00:09:39,078 --> 00:09:44,149
crew on board Chris really supported me

227
00:09:41,448 --> 00:09:49,279
and I was just lucky to

228
00:09:44,149 --> 00:09:50,809
to be back inside in no time all right
thank you guys very much I really appreciate your time and greetings from earth thanks a lot thanks for joining us station this is Houston ACR that concludes the double the kgo-tv portion of the event please stand by for a voice check from WDAY TV station this is WDAY TV Fargo do you hear me we have you loud and clear welcome to the International Space Station thanks Karen just to begin with the the picture you took of Minnesota yesterday and tweeted Karen is really going crazy on Facebook
and and and being retweeted what was that like because I know a couple years ago or on the shuttle flight you tried taking that picture and I think it was cloudy so what was that like to actually see Minnesota from that perspective it was fantastic I actually have to thank Chris for that he knew that I'd been waiting every day I've been you know trying to look at the our world map program that shows when we're gonna cross over various places and and try and time it and I go to the window and it's cloudy again and that's that wasn't
my shuttle flight when I had a chance to
look two or three times and then finally
I was doing a task and I get a call over
intercom Karen come the it's clear over
Minnesota and so I hightailed it down to
the cupola and got a camera out and got
some pictures it was pretty neat it's
amazing I think a lot of people didn't
expect that you could actually pick out
the lakes you know the Otter Tail lakes
the west battle east battle were you
surprised that it was that much clarity
I really didn't know what to expect but
I was gonna look for Otter Tail Lake
first because that I think in that area

00:11:39,710 --> 00:11:43,009
is the easiest to pick out and it was

00:11:41,179 --> 00:11:45,049
very easy to find it and then I knew

00:11:43,009 --> 00:11:47,809
that east battle Lake was gonna be

00:11:45,049 --> 00:11:49,279
nearby and so yeah it was it was very

00:11:47,809 --> 00:11:52,399
easy to find all of that with the naked

00:11:49,279 --> 00:11:54,169
eye and Luca you've been tweeting a lot

00:11:52,399 --> 00:11:56,689
of pictures too and I think you and

00:11:54,169 --> 00:11:58,039
Karen especially are finding it when

00:11:56,690 --> 00:12:00,650
there's big peninsula

00:11:58,039 --> 00:12:03,049
and or Sicily or something like that

00:12:00,649 --> 00:12:04,639
that that's really fun to to take a

00:12:03,049 --> 00:12:06,469
picture of because people back here on

00:12:04,639 --> 00:12:08,269
earth can kind of relate and and pick

00:12:06,470 --> 00:12:13,790
out is that some of the things you kind
of look at and look for well I am from
Sicily and Italy and the Italian peninsula is probably one of the easiest
spot to to find on earth on any anytime
even at night just the shape is so recognizable already if somebody asked
me to take a specific picture in Central
Europe would be a lot harder to find and
as a matter of fact we have had some
some trouble picking specific cities and
capitals over Europe and it's an it's
true also for central United States and
and in the central regions of the earth
Asia
we like the coastlines because they mark
they are very easy to recognize we can
follow across Thailand find specific
landmarks so it is a lot of fun
especially for somebody like me that
comes from from Italy and for the south
of Italy it's a lot of fun to identify
spots and take a picture and then send
it down for people to see what we're doing and
we're due to see what we're doing and
kind of get them curious that we're up
here and we are flying over them they
need to realize that we do that that on
our spare time so we get a lot of
requests please take a picture this town

this place it's really hard to do that

because we cannot guarantee that we will

be over a specific place at a specific

time to make a picture sure and Karen

I'm sure you're able to share pictures

with family back home and and I know you

can communicate with your husband and

son are they communicating with your

son's artwork back up in space are you

trading

yeah it's kind of nice I get pictures of

him and some of the art he's done and

then I send down pictures and videos to

- to him and my husband we've had some

great we have that great communication

Lukic and I was listening to the interview prior to mine and I was just going to ask in the last 12 18 hours have they been able to pin down any more on on where that water came from or is that still out there we have been doing some troubleshooting

Chris and I on my suit and and trying to find find what the source could be at the specific moment we know where it really did not come from we know it didn't come from the water bag that that we used to drink and we know it didn't
come from my CVG the liquid cooling garment that we wear under the suit but NASA specialists and the engineers are still working really hard to find out exactly what happened and I'm sure that who they will find both the problem and the solution and Chris that certainly was a team effort I know that Karen was there as well that's one of those things that's not in the binder that you guys are always looking at can you just describe what those few minutes were like yeah that's a good question you know
before every spacewalk or every major task that we do with robotics for example or spacewalks we have a brief and together as a crew we talk about what we're gonna do and that we're what we will do if there's a problem and we did the same thing the day before yesterday and we talked about a few different issues but lo and behold what happened was not one of those items that we discussed and it was just through training and understanding about what's inside the suit how the suit works and how it could propagate to a bigger
problem which it did and and then

communicating with the ground when to

end it and in my own gut feeling I could

I knew it was time to end it when I saw

the water creeping around his

communications cap kind of right by his

eyelid and I knew that was a

significant amount of water to be in a

helmet and it was time to go in and and

that all happened just like you said it

was just a few moments it was maybe four

to six minutes that we were discussing

it and sitting outside and quickly the

plan developed and and as all accidents

was
or incidents excuse me happen it's right

00:16:12,240 --> 00:16:16,500
when the Sun was setting and right as it

00:16:14,700 --> 00:16:19,259
made things harder so all those things

00:16:16,500 --> 00:16:22,649
sort of came together at the perfect

00:16:19,259 --> 00:16:25,889
storm if you so to speak for for us to

00:16:22,649 --> 00:16:29,689
deal with well guys I really appreciate

00:16:25,889 --> 00:16:29,689
it you have a great rest of the week

00:16:30,570 --> 00:16:34,370
thanks a lot thanks for joining us

00:16:35,750 --> 00:16:42,110
station this is Houston ACR thank you

00:16:38,789 --> 00:16:42,110
that concludes the event

00:16:42,470 --> 00:16:49,439
Thank You kgo-tv and wda TV station we

00:16:47,129 --> 00:16:52,649
are now resuming operational audio calm

00:16:49,438 --> 00:16:55,078
and Chris we're ready for your private

00:16:52,649 --> 00:16:58,609
conference will be dialing SSE 1 5

00:16:55,078 --> 00:16:58,608
unless you prefer a different one