

[14:18] <Cattrix> I was not here last week what was covered then
[14:18] <Frank> Does anyone have anything in particular they'd like to do?
[14:18] <Doos> not much really, only Frank and I here
[14:19] <Cattrix> were we done with Beryl?
[14:19] <Frank> we recovered the emerald stuff
[14:19] <Cattrix> ahh
[14:19] <Cattrix> I am game for anything... what would annie like to talk about?
[14:20] <Annie> it up to you guys,
[14:20] <Annie> i think in the coming weeks, we should start on Garnets
[14:20] <Doos> did you all get a chance to watch some inclusions?
[14:21] <Doos> good idea
[14:21] <Annie> we will probably need 2 or 3 sessions
[14:21] <Cattrix> Oooo Garnets!!!
[14:21] <Frank> Do cat or pearl have anything else they'd like to ask or discuss about beryl....Garnets are good for me annie
[14:21] <Doos> some theory will be involved
[14:21] <Cattrix> not really,
[14:22] <Annie> Cat, and Pear, are there any questions you have from previous sessions
[14:22] <Cattrix> just one
[14:22] <Annie> yes Cat
[14:23] <Cattrix> Three phase inclusion can occur in more than just emeralds?
[14:23] <Annie> yes of course, like your quartz also and others
[14:23] <Annie> not just emeralds
[14:24] <Cattrix> ok,,,
[14:24] <Cattrix> I think I found one in a Topaz
[14:24] <Annie> but mainly these are indicative of their appearances, more jagged or spiky looking things in emeralds
[14:24] <Doos> but in emerald, it is typical for Columbia
[14:24] <Annie> topaz has too
[14:24] <Cattrix> cool:)
[14:25] <Annie> but topaz is not green and different properties and so on, so you will not confuse them
[14:25] <Annie> unless its diffused of course
[14:26] <Cattrix> No it is clear or colorless
[14:26] <TNPearl__> sorry what are we on
[14:26] <Doos> topaz may be confused with aquamarine .. which has 2phase inclusions .. but as Annie said, the readings are much higher
[14:26] <Cattrix> oh it is topaz..
[14:27] <TNPearl__> thanks
[14:27] <Cattrix> thanks:)
[14:27] <Annie> Pearl, we are not on anything yet, we are answering the question Cat had on " 3 phase in emerald"
[14:27] <TNPearl__> ok
[14:27] <Annie> we just landed on topaz
[14:27] <TNPearl__> :-)
[14:27] <Cattrix> I need a micro
[14:28] <Doos> it might be good to have our own inclusions reference one day
[14:28] <TNPearl__> me too
[14:28] <Annie> oh, have you ever seen the green diffused topaz, it raises and throws off the RI of topaz
[14:28] <Frank> lol....don't we just need the micro cat
[14:28] <Cattrix> Yes it would I thought one was going to get started
[14:29] <Cattrix> I have blue topaz but no green...

[14:29] <Frank> Why doesn't diffusion affect the RI of other gems like sapphire annie?
[14:29] <Doos> I don't have green either .. how much higher are the readings Annie?
[14:30] <Annie> well, it was funny, they can do it in all colours
[14:30] <Annie> like lolly pops
[14:31] <Annie> and we had one in an exam a last year and all students got it wrong
[14:31] <Annie> but the sg remained the same
[14:31] <Doos> will they increase to spinel values?
[14:31] <Annie> yes, very close to that
[14:31] <Cattrix> hmmm I will remember that! topaz sg is 3.53 ?
[14:32] <Doos> so if one of the readings goes of the chart .. you might think it's isotropic
[14:32] <Doos> very good Cattrix
[14:32] <Annie> yes
[14:32] <Cattrix> clapping
[14:34] <Cattrix> I need to get some mystic topaz then to play with,,, this is what you meant by green Annie
[14:34] <Doos> mystic topaz is coated
[14:35] <TNPearl__> what is it coated with
[14:35] <Cattrix> So you mean diffused like the london blue?
[14:35] <Annie> hmm no,
[14:35] <Doos> dunno pearl, let me see if I can find it
[14:35] <TNPearl__> k
[14:35] <Annie> yes like treating
[14:36] <Cattrix> irradiated and then heated?
[14:36] <Frank> It's a company secret I think there are various coatings for different effects
[14:36] <Annie> good frank, you preety quick,
[14:36] <Frank> usually only the pavillion is coated
[14:36] <Annie> yes its company secret
[14:36] <Frank> so the coating is protected by the mounting
[14:37] <Frank> so false RI readings on the pavillion facets
[14:37] <Cattrix> OHHH that is good to know!
[14:37] <Frank> and funny spectra...sometime cobalt
[14:38] <Cattrix> Anatase posted a link to a good article about the Coated topaz a few months ago.
[14:38] <Doos> nothing on mystic topaz in Webster
[14:38] <Annie> cobalt is the biggest killer, it can increase colour to blue or green
[14:38] <TNPearl__> k
[14:38] <Frank> Yes Cat that is where I read all this stuff
[14:38] <Doos> I must have missed that link
[14:39] <Frank> it's easy to spot with it's spectrum though Annie
[14:39] <Annie> yes, the cobalt would show up in the absorption
[14:39] <TNPearl__> I have a mystic topaz your right only pivilloon coated
[14:40] <Frank> I've never seen one to look at close up pearl...is there a lustre difference between the coated facets and the crown facets?
[14:41] <TNPearl__> I can see a some diffrence between the girdle
[14:41] <Doos> immerse it in a glass of water
[14:41] <Annie> i think it should be seen in imersion of water
[14:41] <TNPearl__> ok
[14:41] <Doos> lol Annie
[14:41] <Annie> if you have a transparent
[14:41] <Annie> what
[14:42] <Cattrix> giggle

[14:42] <Doos> we posted at the same time again
[14:42] <Annie> beaker
[14:42] <Annie> oh spooooky doos
[14:42] <Doos> heh
[14:42] <TNPearl__> ok its on the bottom
[14:42] <Frank> I've been wondering about the lustre on these coatings since I read that article
[14:43] <Doos> that is a good trick with emerald triplets/doublets aswell .. and there are plenty of them out there
[14:43] <Annie> just hold the beaker up to light and it will stand out like a sore thumb
[14:43] <Annie> yes, good with GTD too to pick up lustre differences
[14:44] <Doos> we didn't cover emerald treatments, did we?
[14:44] <Frank> I've got one of those...I'll try it out later:)
[14:45] <Catrix> I don't think so..
[14:45] <Frank> No not oiling or fracture filling
[14:45] <TNPearl__> yep
[14:45] <Doos> no unimportant as 90% or more than all emerald is treated
[14:45] <Frank> is the lustre of the coating lesser than the natural sone?
[14:45] <Doos> tan=of
[14:46] <Doos> I would think higher
[14:46] <Frank> Why?....I've always thought it would be less than the stone
[14:46] <TNPearl__> never had looked at that stone it has inclusions all over
[14:46] <TNPearl__> strike up another one for jewelry tv
[14:47] <Frank> good study piece then :)
[14:47] <Doos> did you see the difference in the water pearl?
[14:47] <TNPearl__> I guess
[14:47] <TNPearl__> not what I had in mind
[14:47] <TNPearl__> lol
[14:47] <Doos> maybe use tweezers
[14:47] <TNPearl__> yes
[14:47] <TNPearl__> I could see it in the water
[14:48] <Doos> you should see a colourless top and a coloured pavillion
[14:48] <TNPearl__> it is a colorless topaz
[14:48] <TNPearl__> yes
[14:49] <TNPearl__> but what I cant understand is do they dip it or what
[14:49] <TNPearl__> can you peel if off
[14:49] <Doos> with a paintbrush
[14:49] <Doos> :)
[14:49] <TNPearl__> oh
[14:49] <Doos> nah, just kidding
[14:49] <Catrix> no they dont paint it on
[14:49] <Catrix> doos!
[14:49] <TNPearl__> bad doos
[14:49] <Doos> lol
[14:50] <Frank> maybe they spray it on...though I think hand painting unlikely
[14:50] <Catrix> I think they vapor it on under high pressure and teeny tiny droplets
[14:51] <Frank> Pearl when you see the colourless top and the coated bottom...which had the higher lustre?
[14:51] <TNPearl__> depends on the angle
[14:51] <TNPearl__> sometime the colorless did
[14:51] <TNPearl__> and if I moved it the colors took over
[14:52] <TNPearl__> they reflect all over

[14:52] <Catrix> are you looking at it from the side?
[14:52] <TNPearl__> yes
[14:52] <TNPearl__> look again
[14:52] <TNPearl__> from the top
[14:53] <TNPearl__> color
[14:54] <TNPearl__> bottom frank
[14:55] <Frank> ty
[14:55] <Doos> so, back to treatments in emerald
[14:55] <Catrix> :)
[14:55] <Doos> emerald is very brittle with many feasures that extend to the edges of the stones
[14:56] <Doos> so you can easily pour oils and stuff in
[14:56] <Annie> Frank, is that what is like in the student chat, where you all share ideas and experiments
[14:56] <Doos> most widely used is Opticon .. some kind of polymer plastic
[14:56] <Annie> sorry, i won't interupt, please continue Doos
[14:57] <Doos> that's okay, I'll type anyway :)
[14:57] <Doos> Opticon has about the same RI as beryl and sometimes they even use green Opticon
[14:58] <Doos> which makes it very hard to spot
[14:58] <Frank> What is opticon?
[14:58] <Doos> Opticon is a tradename
[14:58] <TNPearl__> thanks frank
[14:58] <Frank> ah ok...
[14:58] <Frank> does it go hard?
[14:58] <Doos> for a polymer plastic which they treat emerald with
[14:58] <Doos> I think so
[14:59] <Frank> ah ok...thanks
[14:59] <Doos> they just pour it in (dunno exactly how .. probably a warm bath orso)
[14:59] <Doos> it fills the cracks
[15:00] <Frank> Do they cut the stones before or after?
[15:00] <Doos> before I believe
[15:00] <Annie> the stone is cut then treated,
[15:00] <Doos> thanks
[15:00] <Frank> does it also make a "skin" around the stone...If it's a polymer plastic
[15:00] <Doos> so you should always be very very carefull with emerald
[15:01] <Catrix> because the fissures are so fine I wonder if they use some sort of pressure chamber to force the goo in?
[15:01] <Doos> probably, but that will be polished of I would guess
[15:02] <Doos> could be .. nice homework, unless Annie knows and wants to snitch us how it's done
[15:02] <Frank> can you see the opticon (like with glass filled jobbies?)
[15:03] <Doos> with magnification yes
[15:03] <TNPearl__> loupe
[15:03] <Frank> or should we just assumed that all emeralds are treated in this fashion
[15:03] <Doos> yes you can safely assume that
[15:04] <Frank> at least the ones I'm ever likely to afford
[15:04] <TNPearl__> safe to buff emeralds
[15:04] <Doos> they don't even disclose it anymore, common practise and accepted
[15:04] <Catrix> I have an Emerald that has like a shiller effect under the surface in patches I wonder if that is some opticon.
[15:04] <Doos> I would try that pearl
[15:04] <TNPearl__> ok

[15:04] <Doos> wouldn't*
[15:04] <TNPearl__> ok
[15:05] <Frank> so how would you clean emerald then?
[15:05] <Doos> water, a mild soap and a soft brush
[15:05] <Doos> no ultrasonic cleaner
[15:05] <Annie> only mild thinks, no ultrasonic
[15:06] <Doos> LOL
[15:06] <Annie> sorry
[15:06] <TNPearl__> lol
[15:06] <Annie> go on
[15:06] <Doos> too funny twin
[15:06] <TNPearl__> steam
[15:06] <Doos> steam is too hot
[15:06] <TNPearl__> ok
[15:06] <Annie> that will suck out all
[15:06] <Doos> so never solder on an emerald ring unless you know what you're doing
[15:06] <Frank> wouldnt soap act as a detergent and float out the oil?
[15:07] <TNPearl__> lol ok doos
[15:07] <Doos> not the mild ones Frank
[15:07] <Frank> k
[15:07] <TNPearl__> baby shampoo
[15:07] <Doos> yah
[15:08] <Doos> great care must be taken when setting the stones aswell .. it's very brittle
[15:08] <Frank> Cleavage?
[15:09] <Doos> esp. square cuts are dangerous .. the corners would break .. that's why they invented the "emerald cut"
[15:09] <Frank> or just brittle?
[15:09] <Doos> brittle
[15:09] <Frank> k
[15:10] <Doos> Annie, you have some to add I'm sure
[15:10] <Frank> funny how the emeralds are all cracked up but most other beryls come clean and whole
[15:10] <Annie> no its good, Doos, the heating of oil to settle is done in 83 deg
[15:11] <Annie> just in 4 hours
[15:11] <Doos> Celsius?
[15:11] <Annie> oh yes celsious
[15:11] <Doos> so it's a bath?
[15:12] <Annie> and normally is sort of a bath and and soak thingo
[15:12] <Annie> and the enthusiastic gemmo would test for under UB
[15:12] <Frank> is it pressurised?
[15:12] <Annie> UV
[15:12] <Annie> the toil fluoresces yellow
[15:12] <Catrix> So are opticon and oiling the same or two different treatments?
[15:13] <Annie> sometimes you see irridenscent effect from oil in thse crack
[15:13] <Annie> go on Doos
[15:13] <Annie> i am preety tired, i cant even type
[15:13] <Doos> heck no I'm listening
[15:13] <Doos> oh ok
[15:14] <Doos> well Catrix Opticon is not an oil, it's a plastic .. but the principle is the same
[15:14] <Catrix> I see ok...
[15:15] <Annie> one is a sealer

[15:15] <Doos> the major advantage of Opticon is that it has about the same RI as emerald itself

[15:15] <Annie> and the other is a shining

[15:15] <Frank> So opticon in the cracks and oil the whole stone?

[15:16] <Annie> the oil cannot be a hardner

[15:16] <Annie> opticcon is to seal and fill cracks to hide the defects

[15:16] <Annie> sorry, maybe we should have explained that

[15:17] <Doos> so increasing it's clarity

[15:17] <Cattrix> is it stable forever or can it degrade like the Fracture fill in Diamond?

[15:17] <Annie> one iimproves clarity the other the transparency

[15:17] <Annie> no its not stable, thats why we cannot use harsh things

[15:17] <Annie> it will come off

[15:18] <Doos> don't leave it in a shop window with the sun blasting on it

[15:18] <Cattrix> ahh ok :)

[15:19] <Doos> any questions?

[15:20] <TNPearl__> yes

[15:20] <Doos> shoot

[15:21] <TNPearl__> I still not clear opticon and polymer plastic are 2 diffrent things

[15:21] <Doos> no, Opticon is a tradename for a polymer plastic

[15:21] <TNPearl__> one iimproves clarity the other the transparency

[15:21] <TNPearl__> ?

[15:22] <Doos> one is Opticon, the other is an oil

[15:22] <Annie> sorry, pearl, yes, optical is for clarity

[15:22] <Annie> oil is for transparency

[15:22] <TNPearl__> oh ok

[15:23] <TNPearl__> got it

[15:23] <Annie> is this confusing , sorry if was not clear

[15:23] <TNPearl__> no I'm not clear headed lol

[15:23] <Cattrix> We got it now!

[15:23] <Annie> do not underestimate yourselves

[15:23] <Annie> we are learning

[15:24] <Doos> if you use opticon .. which has about the same the same RI as emerald .. you will not see the crack anymore or less

[15:24] <TNPearl__> I forgot about oil

[15:24] <TNPearl__> lol

[15:24] <Cattrix> I think it is neat the treatments

[15:25] <Doos> like pouring water in water

[15:25] <Annie> or putting on our lippies to look preety

[15:25] <Doos> lol

[15:25] <TNPearl__> you do great annie my mind is not thinking good

[15:25] <Annie> we all go treatments

[15:25] <Cattrix> ummm lippies? lipstick?

[15:25] <Annie> yes

[15:26] <Annie> lol

[15:26] <Cattrix> giggle

[15:26] <Frank> Here's the link for the topaz treatments Anatase posted

[15:26] <Frank> *edited* Ask Anatase for it

[15:26] <Cattrix> Cool Frank!!

[15:26] <Doos> reminds me of a Roger Waters song ~girl as I always said I prefer you lips red, not the way the good Lord made but how he intended~

[15:26] <Annie> your'e on the ball Frank

[15:26] <Doos> thanks Frank

[15:27] <Frank> I had it on my hard drive ... only just remembered

[15:27] <Doos> I check that site daily .. I must have missed it

[15:28] <Frank> it's a good article but doesn't really tell you any info on how it's done
[15:28] <Frank> more consumer aimed than gemmo aimed
[15:28] <Doos> so it's vapor
[15:29] <Frank> yes
[15:29] <Doos> like Apollo does to grow diamonds
[15:29] <Catrix> didn't they say it involves Electricity so hot it goes plasma?
[15:31] <Doos> we can ask about synthetic emeralds when Tom Chatham comes to chat
[15:31] <Frank> it's on page 4 cat...
[15:32] <TNPearl__> page 4 of what?
[15:32] <Annie> when was tat doos
[15:32] <Catrix> oh k
[15:32] <Frank> is Tom popping over then?
[15:32] <Frank> of the article on the link I posted
[15:32] <TNPearl__> oh ok
[15:32] <Catrix> I can't use the link...
[15:32] <Doos> no date yet Annie, I need to e-mail him back after summer, but he agreed
[15:33] <Annie> thats interesting
[15:33] <Doos> yah, we can ask about synth. diamonds aswell
[15:33] <TNPearl__> who is it that comes on a Monday
[15:33] <Frank> try this cat
[15:33] <Doos> would be fun to marry such a guy "hey honey, make me a new diamond will ya"
[15:33] <Frank> *edited* for copyright reasons
[15:34] <Doos> Cos Altobelli
[15:34] <TNPearl__> ok
[15:34] <Doos> A hollywood jeweler/top appraiser
[15:34] <TNPearl__> yes that one I dont want it miss
[15:34] <Frank> he in your field pearl?
[15:35] <TNPearl__> I'm a want to be Frank lol
[15:35] <Frank> me too :)
[15:35] <TNPearl__> I feel very sick come that monday
[15:35] <TNPearl__> lol
[15:35] <Frank> how's the diamond ring comming along?
[15:35] <Doos> you will all take that route to a more or lesser degree eventually
[15:35] <TNPearl__> I finally got it
[15:36] <Frank> is it as good as you hoped?
[15:36] <TNPearl__> its pretty but not what I designed excatly
[15:36] <TNPearl__> but oh well
[15:37] <Frank> Is it for youself or for selling?
[15:37] <TNPearl__> I will post it as soon as I figure out hop
[15:37] <TNPearl__> how
[15:37] <TNPearl__> me
[15:37] <TNPearl__> that seems to be my problem
[15:37] <TNPearl__> lol
[15:38] <Frank> Just thinking if you sell it you will be able to design and get another made?
[15:38] <Catrix> I had problems too, go to imageshack.
[15:38] <TNPearl__> I know but other things go into this ring
[15:38] <Frank> ah ok I understand that as well
[15:39] <TNPearl__> I went there cat just havent had the time to fool with it yet
[15:39] <Catrix> ahhh so far it was the only hosting site that worked for me.

[15:39] <Frank> I've never actually posted a pic on a forum I don't think
[15:40] <Doos> your own face
[15:40] <Cattrix> your cute little boy picture.
[15:40] <Frank> Yes but avatar posting is a function
[15:40] <Doos> little franky
[15:40] <Frank> actally being Scottish I was wee Franky
[15:40] <TNPearl__> I like little franky
[15:41] <Frank> my dad was big Frank and my grandad was old frank
[15:41] <TNPearl__> hes so cute
[15:41] <Frank> Now I'm big Frank and my dads old Frank
[15:41] <Doos> now look at him
[15:41] <Doos> lol
[15:41] <Cattrix> Frank you look alot like my brother in law and a little
like my husband only he has black curly long hair
[15:42] <Frank> I'm about 6 and a half in that pic
[15:42] <Doos> how is he called? old hippy
[15:42] <Cattrix> no he is too young to be a hippie,
[15:42] <Frank> Cat likes to run her fingers through it doos
[15:42] <Doos> heh
[15:42] <Cattrix> dang straight
[15:43] <Frank> remember she cradle snatched him
[15:43] <Frank> he's a toy boy
[15:43] <Doos> lucky guy
[15:43] <Frank> Cat's plaything
[15:43] <Frank> yes I think he probably is
[15:43] <Cattrix> maybe so,,, maybe soo
[15:44] <Doos> pearl did you get an e-mail from me today?
[15:44] <Cattrix> Ok are we done with the emeralds?
[15:44] <TNPearl__> I dont know havent checked
[15:44] <TNPearl__> I will
[15:44] <Doos> I think so, unless you have additional questions
[15:45] <Cattrix> no I think I am good for now.. I always think of things
later though..
[15:46] <TNPearl__> I got to go you all take care
[15:46] <Doos> bye pearl
[15:46] <TNPearl__> bye all
[15:46] TNPearl__ (~TNPearl@12.77.162.24) left #yg.
[15:46] <Cattrix> Bye Pearl :)
[15:46] <Frank> Cya Pearl....yes I'm ok I think
[15:46] <Doos> write them down cat, ask them next week
[15:46] <Doos> so next week, we'll start garnets?
[15:46] <Frank> except does the opticon or oil have any affect on tests
doen during ID
[15:47] <Frank> spectra alterations, etc
[15:47] <Doos> no, don't worry about that
[15:47] <Cattrix> yay GaRNETS!
[15:47] <Frank> ok...and garnets next week is good...we'll do some
reading
[15:48] <Doos> you will need to read up before we start, to get an image
of the groups of garnets
[15:48] <Doos> heh
[15:48] <Doos> would be difficult to explain otherwise
[15:48] <Cattrix> ok, I have been going over the imorpheous replacement
series lessson
[15:49] <Frank> The isg pages on the isomorphic replacement is really
clear and understandable
[15:49] <Doos> good
[15:49] <Cattrix> Very interseting!

[15:49] <Doos> I'll read them aswell .. so we are in sync
[15:49] <Frank> ok
[15:50] <Frank> do you and annie have access to the isg pages?
[15:50] <Doos> yes
[15:50] <Frank> ok good
[15:50] <Catrix> I think I hear my Chickie stirring so I should go...
Thanks for a great Chat,
[15:50] <Frank> it's nice if weve all read the same notes
[15:50] <Annie> yes, Frank
[15:50] <Doos> bye for now Catrix
[15:50] <Catrix> Night Annie thanks:)
[15:50] <Frank> bye Cat
[15:50] <Annie> bye Cat