

[14:01] Bill (~Bill@209.48.244.147) joined #yg.  
[14:01] <TnPearl> she in Iraq  
[14:01] <Doos> hi Bill  
[14:01] <cityfire> hi bills  
[14:02] <Annie> Citifire, Scott, I hope you can join us here every week,  
we will make it as interesting as we can,  
[14:02] <TnPearl> Hello Bill  
[14:02] <Annie> Hi Bill,  
[14:02] <Scott> Will Do Annie I be here unless some catastrophe happens  
here in Guam like a Typhoon or Earthquake  
[14:03] <cityfire> annie snizzy has me pretty jazzed on this forum.self  
employed so the hours don't always work  
[14:03] <Annie> no, don't say that, touch wood or my head  
[14:03] <Doos> we have two cancelations, Frank and africanuck, so we are  
pretty complete now for the garnet chat  
[14:03] <Annie> I am glad we can inspire many others  
[14:03] <TnPearl> □04wheres frank  
[14:04] <Annie> Frank is away today, Doos, is he?  
[14:04] <Doos> frank needs to help out with the village parade or  
something  
[14:04] <Annie> oh ok,, he will be thinking of us right now  
[14:04] <TnPearl> ok i miss frank  
[14:04] <Doos> something for the kids  
[14:04] <Bill> Hi,all  
[14:04] <TnPearl> ok  
[14:04] <Catrix> Hi Bill  
[14:04] <Doos> hi Bill, great you could join us  
[14:04] <cityfire> houdy bill  
[14:05] <Doos> so shall we start today's chat?  
[14:05] <TnPearl> ok  
[14:05] <Catrix> sure  
[14:05] <cityfire> yep  
[14:05] <Doos> last time we covered the first group of garnets and  
isomorphous replacement  
[14:05] <Doos> does anyone have any questions about that  
[14:06] <Doos> no one?  
[14:06] <TnPearl> was I there  
[14:07] <Doos> yes, that was 2 weeks ago  
[14:07] <TnPearl> lol ok  
[14:07] <Doos> ok let's move on to the ugrandites then  
[14:07] <Bill> I wasn't. What is the first group?  
[14:07] <Doos> the pyralspites  
[14:08] <Doos> we spread the discussion on the garnets over 3 weeks,  
because it was a big subject  
[14:08] <Doos> this will be the last of the three sessions  
[14:09] <Bill> OK  
[14:09] <Doos> the ugrandites consist of three main species  
[14:09] <Doos> u g a remember  
[14:10] <Doos> anyone want to take a shot at what they were again?  
[14:10] <gemma> uvovarite  
[14:10] <gemma> grossular  
[14:10] <gemma> almandite  
[14:10] <Catrix> Andrite  
[14:10] <Doos> close  
[14:10] <Doos> yes andradite  
[14:10] <gemma> a guess  
[14:10] <Doos> so uvarovite, grossular and andradite  
[14:11] <Annie> Very Good Gemma,

[14:11] <Doos> you can always remember them by dissecting the word  
ugrandite  
[14:11] <cityfire> eg please?  
[14:12] <Doos> the first one, uvarovite is a calcium Chromium silicate  
[14:12] <Doos> Ugrandite Grossular Andradite  
[14:12] <Doos> look at the capital letters  
[14:12] <cityfire> thankyou  
[14:13] <Doos> the uvarovites are of lesser importance to us as they are  
rarely large enough to produce cut stones  
[14:14] <Doos> but for completeness, the values are  $D \sim 3.77$  and  $n \sim 1.87$   
[14:14] <Doos> any questions so far?  
[14:15] <Scott> yeah  $D = ?$  and  $n = ?$   
[14:15] <Doos>  $D =$  Density and  $N =$  refractive index  
[14:15] <Annie>  $D$  stands for density is SG  $n = RI$ , Scott  
[14:15] <Scott> ok thanks  
[14:16] <Annie> any other questions from the floor  
[14:17] <cityfire> common names?  
[14:17] <Doos> does anyone know why I didn't give the birefringence  
value?  
[14:17] <Catrix> because it is so wide and varied?  
[14:17] <Catrix> no  
[14:17] <Doos> uh no  
[14:17] <Bill> S.R.  
[14:17] <TnPearl> not any  
[14:17] <Catrix> because there is none  
[14:18] <Doos> thank you Bill  
[14:18] <Catrix> man I need some sleep  
[14:18] <TnPearl> i need help  
[14:18] <TnPearl> lol  
[14:18] <Doos> the garnets are cubic, therefore isotropic, therefore no BR  
[14:18] <Annie> yes, thanks Bill, Very well, it belongs to the cubic  
crystal system and therefore singly refractive and cannot have  
birefringence  
[14:19] <Doos> cityfire, what did you mean by "common names"  
[14:19] <Doos> names\*  
[14:20] <cityfire> doos I should probably just sit back and learn,  
[14:20] <Bill> e.g., Mali, demantoid  
[14:20] <Annie> no its good, cityfire, this is your first time, and  
please ask anything you like  
[14:20] <Doos> no it's ok, there are only silly answers .. remember you  
learn best from a lot of questions  
[14:20] <Annie> demantoid variety of Andradite as Bill says,  
[14:20] <TnPearl> trust me cityfire you cant out do me on silly questions  
[14:21] <Doos> ah in that case, none that I know of cityfire  
[14:21] <Annie> which contains chromium to produce the green colour,  
[14:21] <Doos> ok on to Grossular, which is more interesting to us  
[14:22] <Annie> and melanite which is blue  
[14:22] <Doos> Grossular comes in (roughly) three well known gems  
[14:23] <Doos> Hessonite, Green Grossular (including Tsavorite) and Hydro  
Grossular garnet  
[14:23] <Doos> we'll go over them one by one  
[14:23] <Doos> Bill, feel free to jump in anytime  
[14:23] <Doos> first is Hessonite  
[14:23] <Annie> yes, please do Bill,  
[14:24] <Annie> Scott, any questions, so far from you....  
[14:24] <cityfire> tsavorite a name I recognize=grossular garnet?  
[14:24] <Doos> the common values for Grossular are:  $D=3.60-3.70$  and  
 $n=1.74-1.75$

[14:24] <Doos> yes Tsavorite is a green grossular garnet  
[14:25] <Scott> Annie, no I am good  
[14:25] <Doos> they are Calcium Aluminium Sillicates  
[14:25] <Annie> ok, thanks, please raise your hand :- ) though  
[14:25] <Scott> I will no worries.  
[14:25] <Annie> beaut  
[14:26] <Doos> the colours are brownish-yellow to brownish-red and everything in the middle  
[14:26] <Doos> the yellows are sometimes named "cinnamon stones"  
[14:26] <Annie> ooh , starts with H .. anyone  
[14:27] <TnPearl> essonite  
[14:27] <TnPearl> oop  
[14:27] <TnPearl> hessonite  
[14:27] <Annie> very well, hessonite then it will be  
[14:27] <Doos> they have no distinctive spectrum, but as it belongs to an isomorphous series, it may contain some almandine lines  
[14:28] <Doos> remember that almandine belongs to the pyralspites, but the two groups may contain one and other to a certain degree  
[14:28] <Annie> isn't it spessartine molecules that are present ? Doos,  
[14:29] <Doos> now you're making me doubt  
[14:29] <Doos> almandine according to Webster  
[14:30] <Bill> Grossulars are all colorless. Iron gives the almandine lines  
[14:30] <Doos> yes, grossulars are allochromatic  
[14:30] <gemma> so almandine is the link between the two groups along the "ismorphous chain"?  
[14:30] <Annie> thanks Bill,  
[14:31] <cityfire> so what causes the green?  
[14:31] <Doos> trace elements of chromium and vanadium  
[14:31] <Doos> in Tsavorit  
[14:32] <Doos> gemma, all the species in the series can play part in the process  
[14:32] <cityfire> so grossular is colorless and trace elements give the differnt colors for the differnt types of gems  
[14:32] <gemma> ok. i forget that  
[14:32] <Annie> Tsavorite hasVanadium oxite and some chromium can be as high as 0.68%  
[14:33] <Doos> as Bill stated iron playes a part in hessonite, so would it show lumenesence?  
[14:33] <Annie> we know gemma likes Tsavorites  
[14:33] <Doos> anyone?  
[14:34] <Doos> we learned before that iron kills lumenescence  
[14:34] <Bill> Never heard that it does  
[14:34] <Annie> have a guess anyone.... the answer is NO  
[14:34] <TnPearl> no  
[14:34] <Annie> good my pearl  
[14:35] <cityfire> doos i am sorry but no  
[14:35] <TnPearl> lol  
[14:35] <Doos> ok, on with inclusions  
[14:35] <Doos> hessonite is one of the nicest stones when it comes to inclusions  
[14:36] <Doos> it's very distinctive and makes for a great VO stone  
[14:37] <Doos> common inclusions are rounded crystals of zircon and apatite aswell as an oily internal effect  
[14:37] <Bill> What is VO?  
[14:37] <Doos> Visual Optics  
[14:37] <Doos> or Visual Gemmology as others name it

[14:39] <Doos> anyone have anymore questions before we move to green grossular?

[14:39] <Bill> I call it the Hodgkinson Method

[14:39] <Doos> yes, it's from him indeed

[14:40] <Doos> most people here are aware of his method and we are big fans of it

[14:40] <Doos> although we are waiting for his book to come out, his others are impossible to get

[14:41] <Doos> on to green grossular

[14:42] <Doos> the main stone in this group is Tsavorite with  $n \sim 1.739-1.744$  and  $D = 3.57-3.65$

[14:42] <Doos> the green colour is, as said, cause by vanadium and chromium

[14:43] <Doos> it can rival any emerald in it's best colours

[14:43] <Doos> which are a crisp green with a bluish secondary colour (or some yellow)

[14:44] <Doos> the best stones are fairly free of inclusions, but you might see some fibrous inclusions as in demantoid, but not formed in a horse-tail

[14:45] <Doos> you might find absorption bands (spectrum) in the red and orange area

[14:45] <cityfire> Are there any common treatments?

[14:45] <Doos> not commonly no

[14:46] <Doos> I believe that Wise said that some may be treated

[14:47] <Doos> now, as it is coloured by chromium and vanadium .. what effect will the chelsea filter have on it?

[14:47] <TnPearl> red

[14:47] <cityfire> red

[14:47] <Doos> yes red or pink

[14:47] <gemma> (when you are done with tsavorite, could you explain the oily effect in hessonite -- i popped in too late to catch it \*\* i like brown stones too :) )

[14:47] <Annie> very good, indeed

[14:47] <cityfire> depending on the saturation?

[14:48] <Doos> some may not even show it

[14:48] <gemma> you mean some tsavorite will be inert under chelsea filter?

[14:48] <Doos> the main sources are in Africa .. Kenya/Tanzania

[14:48] <Doos> yes gemma

[14:49] <gemma> ty

[14:49] <Doos> the oily effect in Hessonite is also called "treacly", I'm unsure what the cause is

[14:50] <Doos> but if you ever see it, you most likely will not forget it

[14:50] <Annie> have you seen it gemma, its like a honey smear

[14:50] <Annie> and may look a little hazy

[14:50] <Bill> Probably differing RI in different parts

[14:50] <Doos> yes, if you do the Hodgekinson Method on it, you want to clean the stone

[14:51] <Annie> and within that smear you will find the euhedral apatite crystals

[14:51] <gemma> no i have not seen hessonite but it sounds cool

[14:51] <Annie> preety much, yes, please put this on your wishlist, gemma, you will love it

[14:51] <Doos> could you go into that a bit Bill?

[14:51] <gemma> oh wow. thanks for the heads up :)

[14:53] <Doos> does anyone have other questions so far on hessonite or green grossular (tsavorite)?

[14:53] <gemma> yeah

[14:53] <Doos> go ahead  
[14:53] <cityfire> doos why would some tsavorite not react under the chelsea filter?  
[14:53] <gemma> the grossular term was explained in the previous garnet chat , correct?  
[14:53] <Scott> Are there any other names for green grossular or is it jsut tsavortie?  
[14:53] <Bill> If the RI of a gem is uniform, the color will be uniform. Differing RI indicates differing composition.  
[14:54] <gemma> (lol. you got questions!)  
[14:54] <Doos> Bill, so an effect of the isomorphous replacement?  
[14:55] <gemma> bill, i seem to have seen a correlation in the SG and the elements involved as well  
[14:55] <Doos> I know of just tsavorite Scott  
[14:55] <Annie> That is a good thing to note, thanks Bill  
[14:56] <Doos> gemma, grossular is just the term we use for the calcium aluminium silicates in the garnet group  
[14:56] <Doos> the ugrandites are the calcium garnets  
[14:56] <Bill> Everything is an effect of isomorphous substitution.  
[14:57] <Doos> thank you Bill, very intersting information  
[14:57] <Annie> Bill, the Sg can be spot on, but Ri can differ due to their composition.. is that correct  
[14:58] <Doos> the last of the grossular garnets is Hydro Grossular Garnet  
[14:59] <Doos> coomonly known as "transvaal Jade"  
[14:59] <Bill> S.G. is determined to only 2 decimal places while RI is measured to three and therefore can be more sensitive to compositional changes.  
[15:00] <Doos> thank you  
[15:00] <Annie> Thanks, thats great  
[15:00] <Doos> hydro grossular is massive in nature  
[15:01] <Doos> in the chemical composition, some of the SiO4 may be replaced by OH  
[15:01] <Doos> hence it's named Hydro Grossular  
[15:02] <Doos> you will find it in green, pink, white, gray and multicolours  
[15:02] <Doos> the green ones are coloured by chromium and the pink ones by manganese  
[15:03] <Doos> so the green ones may show reddish under the chelsea filter  
[15:03] <Doos> or pinkish  
[15:04] <Doos> the values are: n=1.70-1.730 (with the pink stones usually at the lower half)  
[15:04] <Doos> D=3.36-3.55 and again here the pink ones are at the lower part of that range  
[15:05] <Annie> also we should note something on the luminescence which is important with these ones  
[15:05] <Doos> the sole exemption being x-ray lumenescence, but none of us will have one athome  
[15:05] <Annie> Doos, I will wait until you come to that one  
[15:05] <Doos> it's ok, go ahead  
[15:06] <Annie> no please finish  
[15:06] <Doos> okay  
[15:06] <Doos> it has not spectrum that is distinctive and the inclusions are usually black opaque spots of magnetite  
[15:07] <Doos> as the nickname (transvaal jade) might imply, it's found in Transvaal (SA), New Zealand and the USA  
[15:07] <Doos> go ahead Annie

[15:08] <Annie> although we said before that the garnets are inert under ultra violet

[15:09] <Annie> grossular in particular some may show very weak orange-yellow reaction

[15:09] <Annie> ok

[15:11] <Doos> there is also a yellow and a white grossular with the values:  $n=1.73-1.74$  and  $D\sim 3.65$  .. so a little lower than the usual grossulars

[15:11] <Doos> that concludes my speech on the grossulars

[15:11] <Annie> i used 'ok' as Cos did last week

[15:11] <Doos> any questions before we go on to Andradite?

[15:11] <Doos> lol Annie

[15:11] <Annie> :-)

[15:12] <Annie> i thought that was very good - he gave us the idea ? don't you think that was great

[15:12] <TnPearl> I thought it was very good

[15:13] <Doos> ok Andradite then

[15:13] <Doos> here there are also 3 main species as with grossular

[15:14] <Doos> the main formula is  $\text{Ca}_3\text{Fe}_2(\text{SiO}_4)_3$

[15:14] <Doos> so a nice dose of iron

[15:14] <Annie> its got calcium and iron to be nice and strong :-)

[15:14] <Doos> the calcium may be partly replace by manganese and the iron by aluminium

[15:14] <Doos> heh

[15:15] <Doos> the main species of this group is demantoid, then there is melanite and "topazolite" or yellow demantoid

[15:16] <Doos> I don't think the judges are out on the last name

[15:16] <Doos> melanite is opaque black and was mainly used in mourning jewellery

[15:16] <Doos> like Jet etc

[15:17] <Doos> the density may be as high as 3.90 and the n upto 1.89

[15:17] <Doos> the main sources are in France and Italy

[15:17] <Doos> I have not much more to say about this mineral

[15:18] <Doos> Demantoid is another subject as it can fetch high prices and has a great green colour

[15:18] <Doos> you can all guess what the colouring element is by now

[15:19] <cityfire> how do you get an ri of 1.89?

[15:19] <Annie> you can't citifire, it will be off the scale

[15:19] <Doos> gemmeter or some device

[15:19] <Doos> I can't get it with my refractometer

[15:20] <Annie> its got very high dispersion say something like 0.50 +

[15:20] <cityfire> ok

[15:20] <Annie> ok

[15:21] <Annie> so like doos said, the gemmeter will be good

[15:21] <Bill> Get a Hanneman or Hanneman-Hodgkinson refractometer - or, build one yourself.

[15:21] <Doos> the values for demantoid are:  $D=3.82-3.85$  and  $n\sim 1.89$

[15:21] <Doos> how high does that go Bill?

[15:21] Guest (~Guest@201.19.128.184) joined #yg.

[15:21] <Doos> hi guest

[15:22] <cityfire> hi guest

[15:22] Guest (~Guest@201.19.128.184) left irc: Guest

[15:22] <Annie> Hi Guest

[15:22] <cityfire> bye guest

[15:22] <Annie> uhhh

[15:22] openmind (~openmind@201.19.128.184) joined #yg.

[15:22] <Doos> hi openmind

[15:22] <cityfire> hi openmind

[15:22] <openmind> hello everyone  
[15:22] <Bill> Doos, 3 is that high enough?  
[15:22] <TnPearl> hello  
[15:22] <Annie> Hello Openmind,  
[15:22] <Doos> oh dear, yes Bill high enough for me  
[15:23] <Annie> Openmind, were you the guest before  
[15:23] <openmind> I'm sorry... didn' get thetime straight for the chat sessions... when arethey supposed to take place?  
[15:23] <Doos> I'll look into it right away  
[15:23] <cityfire> bill where can you get the schematics?  
[15:23] <Doos> openmind, we started 1.5 hours ago  
[15:23] <openmind> yes... I was the guest... forgot to enter as myself, so I re-entered  
[15:24] <Annie> its fine, welcome  
[15:24] <Doos> well welcome openmind  
[15:24] <openmind> thanks... maybe I'll get it right next time around  
[15:24] <Annie> great to have you.. are you new to the forum..  
[15:24] <Doos> so where were we .. high dispersion, of the chart ri (so we need to look into the Hanneman refractometer)  
[15:25] <openmind> yes... and new to ISG as well  
[15:25] <Bill> All instructions are in the book "Guide to Affordable Gemology"  
[15:25] <gemma> (doos, re the hanneman refractometer -- can you let us know about that?)  
[15:25] <Annie> you are at the right place  
[15:25] <cityfire> Thankyou, where can you get that book?  
[15:25] <Doos> the books sells for around \$30, try mineralab or Mikon-online  
[15:26] <Doos> I have a copy of it ordered (well if they have it in stock)  
[15:26] <openmind> I ordered one too... it will take some daysto arrive, though, so I'll just sit and hear you out  
[15:27] <Annie> I have it Doos, its great, hope you will get your copy soon  
[15:27] <Doos> ok, demantoid is coloured by chromium so you will get a nice reaction under the chelsea filter  
[15:28] <Doos> but remember there is iron in it aswell  
[15:28] <Doos> which dulls it  
[15:28] <Bill> You can order direct @ Hanneman Gemological Instruments P.O. Box 1944, Granbury TX, USA.  
[15:29] <cityfire> Bill Thankyou  
[15:29] <Doos> thank you Bill  
[15:30] <Doos> demantoid has a characteristic spectrum due to iron and chromium, take a look at the images in Colin Winter's book or at Gemca's site [www.geminterest.com](http://www.geminterest.com)  
[15:31] <gemma> why does it look like that?  
[15:31] <Doos> the byssolite (horse-tail) inclusions are also diagnostic for demantoid  
[15:31] <gemma> that is different  
[15:31] <Doos> sorry?  
[15:31] Catrix (~Catrix@172.199.107.44) left irc: Ping Timeout  
[15:31] <gemma> what elements are making the faint bands.?  
[15:32] <gemma> i'm still leanring that stuff  
[15:32] <Doos> iron and chromium  
[15:32] <gemma> never mind. i will ask a different time after i have studied it.  
[15:32] <Doos> the main sources are the Ural in Russia and Zaire

[15:33] <Bill> Oh yes, Shipping cost is about \$8 anywhere in the world.  
(no credit cards, check in US dollars)

[15:33] <Doos> that's ok

[15:33] <gemma> (embarrassed, i was looking at the wrong photo)

[15:33] <gemma> geesh

[15:34] <Doos> Bill, I will post the addresses on the forum that we are members from

[15:34] <Doos> the last stone in the andradite is "topazolite" or yellow demantoid

[15:35] <Doos> it will have the same characteristics as demantoid I believe as I couldn't find much information on it

[15:35] <Doos> maybe someone else has more on it

[15:36] <Doos> that concludes the ugrandites

[15:36] <Doos> questions?

[15:36] <Annie> can you see the 475 nm and 450nm - its preety strong,

[15:37] <TnPearl> Yellow to lemon yellow topaz like therefore the name variety deposits found in Switzerland the Italian Alps and calif

[15:37] <TnPearl> Topazolite

[15:37] <Scott> No questions but Thank you I learned a lot of information during this chat.

[15:37] <Bill> Thanks, gang, I have to go as my wife wants the computer. Best wishes

[15:38] <Doos> yes TnPearl, thank you

[15:38] <gemma> what nm are you talking about annie?

[15:38] <TnPearl> yw

[15:38] <Annie> thank you Bill, for great info

[15:38] <Doos> thanks for visiting with us Bill, much appreciated

[15:38] <Annie> the spectra of dermantoid on gemca's site

[15:38] <openmind> sorry I missed most of it... will there be a log posted later with full contents of the chat?

[15:39] Bill (~Bill@209.48.244.147) left irc: Bill

[15:39] <Annie> Bill, we hope you can join us again

[15:39] <Annie> ohh he is gone

[15:39] <Doos> openmind, in the Guru Chat section on the forum

[15:39] <gemma> annie, i am seeing a huge band from about 400-475

[15:39] <Doos> people could you all guess who Bill was?

[15:39] <TnPearl> no who

[15:39] <Doos> Dr. Bill Hanneman

[15:40] <TnPearl> oh

[15:40] <Doos> :)

[15:40] <Scott> Nice

[15:40] <gemma> oh. thank god we didn't say anything silly

[15:40] <gemma> very nice

[15:40] <Annie> nice

[15:40] <openmind> wow!

[15:40] <Doos> he came to check us out, to see if he wants to host a chat with us one day

[15:40] <cityfire> So he knows about that book?

[15:40] <Doos> that's why I kept my mouth shut

[15:40] <gemma> too bad frank wasn't here

[15:40] <Doos> cityfire, he wrote it

[15:40] <openmind> what book?

[15:41] <openmind> oh! got it

[15:41] <cityfire> doos I know trying to be humorous!

[15:41] <Doos> lol

[15:41] <Doos> now I need a potty break

[15:42] <Annie> Gemma, does your computer show the spectra from gemca's site as a large full absorption from 400-475

[15:42] <gemma> yes  
[15:42] <Annie> full dark absorption  
[15:43] <gemma> yes  
[15:44] <gemma> so what element is that. the iron?  
[15:44] <Annie> ohhh. ok must be something wrong with me...  
[15:44] <Doos> still in a partying mood Annie?  
[15:44] <gemma> i would doubt that annie.  
[15:44] <Annie> i only see 2 lines in the blue close at 450 and the 475  
[15:44] <Scott> Ok I have a question now. Two parter even 1st was last chats log posted in Guru Chat? and secondly what are we chatting about next time?  
[15:45] <gemma> maybe we are looking at different links, annie. i see two and they are both the same. you are talking about demantoid, right?  
[15:45] <Doos> check out the "Guru Chats" topic on the forum Scott  
[15:45] <Annie> and the chome part, i don't see at all, although dermantoid has further lines in the red  
[15:45] <TnPearl> □04Dr Hannerman gave an address to order but he did not give a price anyone know the price  
[15:46] <gemma> yes, i see a bit in the red around 490  
[15:46] <Doos> 29.95 TnPearl, I'll let you know for sure  
[15:46] <TnPearl> ok  
[15:46] <Scott> Ohh one more question someone posted you all chat sundays 3pm edt also is that the same topic or something else?  
[15:47] <Doos> something else Scott, no lecture then  
[15:47] <Doos> free topics  
[15:47] <Scott> so all welcome then also?  
[15:47] <Doos> yes  
[15:47] <Annie> Gemma, thats correct, red is 690  
[15:47] <Annie> but i can't see this on my cxomputer  
[15:47] <Scott> nice  
[15:48] <gemma> scott, the chat logs are downloaded at <http://yey.be/yglogs/?C=M;O=D>  
[15:49] <cityfire> doos why does some tsavorite not react with the chelsea filter?  
[15:49] <TnPearl> well I got to get going chat with you guy next week and again Happy Birthday Annie  
[15:49] <Scott> later tnpearl  
[15:49] <Doos> maybe dulled by iron cityfire  
[15:49] <TnPearl> bye  
[15:49] TnPearl (~TnPearl@12.77.162.49) left irc: TnPearl  
[15:49] <cityfire> s'long pearl  
[15:49] <Doos> bye TnPearl, till next week  
[15:49] <Annie> thanks  
[15:49] <Annie> pearl see you  
[15:49] <Annie> next week  
[15:50] <Doos> people all remember that next week we have Robert Weldon as a guest speaker  
[15:50] <Doos> see the forum  
[15:50] <cityfire> would that affect the ri and or color also?  
[15:50] <gemma> then what is the big black band i am seeing all the way from 400 to about 475?  
[15:50] <Scott> gemma, thanks a bunch  
[15:50] <gemma> welcome scott  
[15:50] <Annie> hang on Gemma, I will look for you  
[15:50] <Doos> I would guess cityfire, but iron can also colour green  
[15:50] <gemma> thanks annie. i have a hard time with spectra  
[15:51] <Annie> please wait  
[15:51] <gemma> not a problem annie

[15:51] <Scott> well thank you Doos, Annie and all for your input I was very entralled by the chat and can't wait for more but Now I must leave it is Midnight and the baby will be up about 6am

[15:52] <Doos> night Scott, feel free to come back any time

[15:52] <cityfire> nite scott

[15:52] <gemma> doos, i have a difficult time understanding what element is causing the absorption at what nm on the scale. didn't you post that somewhere in an earlier chat?

[15:52] <gemma> nite scott

[15:52] <Scott> Night \*signs off\*

[15:52] Scott (~Scott@202.131.179.244) left irc: Scott

[15:52] <Annie> bye scott

[15:53] <Annie> Gemma, i can't understand the site, its in french

[15:53] <Doos> gemma, iron will be the blue absorption and chromium will produce the lines in the red

[15:53] <Annie> i am looking at the wrong spectra

[15:53] <gemma> then i do understand!!!! snooply dance around the room!!!

[15:53] <gemma> :) :) :)

[15:53] Jen\_ (~Jen@66.244.234.131) joined #yg.

[15:53] <Doos> openmind, are you new to the forum?

[15:53] <Doos> hi Jen\_

[15:53] <Annie> the absorption should be well up to 4.75

[15:53] <Annie> i mean 475nm

[15:53] <gemma> yes, it is annie

[15:53] <Jen\_> hi everyone

[15:53] <gemma> i know that's what you meant :)

[15:54] <Annie> and then there should be strong bands at 620 and 640

[15:54] <Annie> then also something of a doublet at 690

[15:54] <Annie> area, can you see that

[15:54] <gemma> yes, on one of the demantoid spetra it is.

[15:54] <gemma> i see there are three of them each a bit different depending on the locale

[15:54] <Annie> hi jen, there you are ! :-)

[15:55] <Jen\_> yes i made it here, just wanted to catch up on posts now

[15:55] <gemma> so you are looking at the one from Iran.

[15:55] <gemma> hi jen

[15:55] <Jen\_> i have great news the last couple of days my internet has been working better

[15:55] <Doos> good jen

[15:56] <Jen\_> hi gemma

[15:56] <gemma> annie, do you have the link for the English translation of gemca's site?

[http://babelfish.altavista.com/babelfish/trurl\\_pagecontent?lp=fr\\_en&trurl=http%3a%2f%2fwww.geminterest.com%2f](http://babelfish.altavista.com/babelfish/trurl_pagecontent?lp=fr_en&trurl=http%3a%2f%2fwww.geminterest.com%2f)

[15:57] <Annie> no i don't

[15:57] <openmind> yes, Doos... was distracted a bit searching gemça's site.. great pix

[15:57] <Doos> where are you from openmind?

[15:58] <openmind> gemma... I found the photo that's troubling you

[15:58] <openmind> Brazil

[15:58] <gemma> i just pasted it for you. here it is again

[http://babelfish.altavista.com/babelfish/trurl\\_pagecontent?lp=fr\\_en&trurl=http%3a%2f%2fwww.geminterest.com%2f](http://babelfish.altavista.com/babelfish/trurl_pagecontent?lp=fr_en&trurl=http%3a%2f%2fwww.geminterest.com%2f)

[15:58] <Doos> ah nice, land of many gems

[15:58] <gemma> doos, openmind posted something about green aquamarine, i think, is that correct open mind?

[15:58] <openmind> true... but too little gemology, to tell you the truth...

[15:59] <openmind> it was about prasiolite, commercially named "green amethyst"

[15:59] <Doos> oh well, who cares about gemmology when you can pick the stones out of the garden

[16:00] <gemma> oops. that's right! lol

[16:00] <openmind> lol.... good one!... the problems show when you are buying.. or selling!

[16:01] <gemma> ok. i have to go. sorry for popping in and out with late questions but right now that is the only way i can make these chats.

[16:01] <openmind> and thanks for the mikon-online.com tip... good one... that's the only place I found Hanneman's gadgets and books. very nice!

[16:01] <Doos> bye for now gemma

[16:01] <cityfire> bye gemma

[16:01] <gemma> this was interesting. i love garnets even though i don't know much about them. and i will keep a eye open for hessionite, annie

[16:01] <Annie> oh, openmind, your country is in the world of gems -

[16:01] <openmind> bye..nicem eeting you

[16:01] <Jen\_> bye gemma

[16:01] <gemma> bye and happy bday annie

[16:01] <Annie> great gemma,

[16:02] <Annie> thank you,

[16:02] gemma (~gemma@68.249.43.237) left #yg.

[16:03] <openmind> thanks, Annie... it has a very rich underground, really. anyone already been here?

[16:03] <Doos> there may be alot of info today, but you can reread it once I post the log

[16:03] <Annie> no can we come and stay with you ?

[16:03] <openmind> anytime you want... have you heard of Teofilo Otoni?

[16:04] <Doos> in what area do you live?

[16:04] <openmind> in Teofilo Otoni, state of Minas Gerais

[16:04] <Doos> now that is interesting

[16:04] <Annie> oh my favourite

[16:05] <openmind> really? that' nice... you are all welcome...

[16:05] <Annie> Brazil intrigues me as a country with all the gems

[16:06] <Annie> :-)

[16:06] <Doos> lol

[16:06] <cityfire> Very pretty and friendly people to

[16:06] <Doos> hey people, I'm going aswell

[16:07] <cityfire> Bye doos thankyou

[16:07] <Jen\_> oh ok bye doos

[16:07] <Annie> ok, we call it a night'

[16:07] <Doos> Annie, I hope you had a great day

[16:07] <openmind> it is fascinating... and you can never grow tired of it... there's always something new showing up... a new mining discovery, a new cut, a new dealer, a new fair... very nice for those that love the subject

[16:07] <Annie> thanks Doos

[16:07] <Doos> bye bye all, kisses Annie and jen

[16:07] <openmind> sure! it' a great country. come and visit!