

**** BEGIN LOGGING AT Sat Mar 5 23:37:57 2005

mrt 05 23:37:57 * Now talking on #yg
mrt 05 23:38:03 Doos hi Annie
mrt 05 23:40:49 Annie hi Doos
mrt 05 23:40:53 Annie where have you been
mrt 05 23:41:13 Doos did I confuse everyone with the timetables again?
mrt 05 23:41:31 Annie well i checked yg yesterday
mrt 05 23:41:45 Annie and i saw your post but didn't realise it wasn't finalised yet
mrt 05 23:42:07 Annie there was no one here yesterday i think
mrt 05 23:42:10 Doos yah Gemma didn't understand it well either
mrt 05 23:42:42 Doos sorry about that
mrt 05 23:42:48 Annie no its ok
mrt 05 23:43:02 Annie but what is robert doing, he also said he is going to try out on timezones
mrt 05 23:43:08 Annie bit, did you see that
mrt 05 23:43:14 Annie or did i get it wrong
mrt 05 23:43:34 Doos yah, guess he is waiting till he has the time to actually host a guruchat
mrt 05 23:44:03 Annie so did he give you an indication whether he might be coming today
mrt 05 23:44:28 Doos I doubt it, much too busy
mrt 05 23:45:23 Annie ok, then the european lunch time and 10 pm in oz bit is far to early for him in texas
mrt 05 23:45:35 Annie it will be 5 am
mrt 05 23:45:40 Annie his time
mrt 05 23:45:41 Doos lol yes
mrt 05 23:45:49 Annie so he may not like that time
mrt 05 23:46:27 Doos well the idea is that we do them at that time for us in europe/asia/oz .. and he does one seperatly for the usa
mrt 05 23:46:52 Doos so 2 seperate guru chats
mrt 05 23:47:11 Annie ok, i guess i didn't understand that - 2 spearate ones ??
mrt 05 23:47:30 Doos yes, we do one and he does one
mrt 05 23:47:36 Doos 2 guruchats
mrt 05 23:48:07 Doos so everyone living in the usa will get lessons from robert instead of us
mrt 05 23:48:37 Annie has that been posted or am i going in the ditch
mrt 05 23:48:49 Annie i never saw that bit
mrt 05 23:48:50 Doos it's an idea for now
mrt 05 23:49:07 Doos he posted it somewhere .. some time ago
mrt 05 23:49:30 Doos but he is waiting till he actually has time to do that
mrt 05 23:49:45 Annie right, I get it :(
mrt 05 23:50:17 Annie i think the guru chat wording is wrong, it intimidates people not to attend
mrt 05 23:50:34 Doos could well be
mrt 05 23:50:53 Doos those who come here know it though
mrt 05 23:51:12 Annie yes, and its only been happening last 2 weeks
mrt 05 23:51:23 Annie we've been at it last 4 months or so
mrt 05 23:51:36 Doos atleast now we have a regular place to hang out
mrt 05 23:51:44 Doos almost 6
mrt 05 23:51:50 Annie oh yeah
mrt 05 23:52:10 Doos this will be log no. 21
mrt 05 23:52:18 Annie do you get people hanging out here other than sundays
mrt 05 23:52:45 Annie yes log 21

mrt 05 23:52:46 Doos sometimes, not many though
mrt 05 23:53:03 Annie i can never catch people
mrt 05 23:53:04 Doos I'm not here all the time myself so maybe
mrt 05 23:53:23 Annie i am not sure, i used to get you on trillian
mrt 05 23:53:47 Doos there is a chatplugin for the forumboard that is
made for this chat .. that also shows who is in the chat
mrt 05 23:54:19 Annie huh, where
mrt 05 23:54:35 Doos not implemented .. I'll try it out first
mrt 05 23:54:53 Doos maybe he'll think it's a nice feature and use it
mrt 05 23:55:27 Annie ok
mrt 05 23:55:31 Annie maybe
mrt 05 23:56:12 Doos then if you login on the forum .. all you need to
do is press a button and you get logged in with your forum name
mrt 05 23:56:27 Annie right
mrt 05 23:56:54 Doos and you can see on the forum if anyone is in here,
so you don't go to an empty chat
mrt 05 23:57:36 Annie yeah sure, but i am always the odd one out.. it
would work for others
mrt 05 23:58:07 Doos well maybe if people see you are in the chat, they
come and keep you company
mrt 05 23:58:50 * gemma (~gemma@68.72.152.77) has joined #yg
mrt 05 23:58:57 Doos hi gemma
mrt 05 23:59:02 Annie hi gemma
mrt 05 23:59:07 gemma hello. hi gembot. nice to see a new face
mrt 05 23:59:12 gemma hello doos, annie
mrt 05 23:59:43 Annie oh i didn't see gembot yet
mrt 05 23:59:48 gemma :)
mrt 05 23:59:51 * Frank (~Frank@ACA30BC7.ipt.aol.com) has joined #yg
mrt 05 23:59:58 Doos hi Frank
mrt 05 23:59:59 Frank Hey all
mrt 06 00:00:01 Annie hi Frank
mrt 06 00:00:16 Frank Annie, Gemma.....how you?
mrt 06 00:00:21 Frank hey doos
mrt 06 00:00:26 gemma of fine frank. i am going to brb. needed to sign
in so you knew i was here
mrt 06 00:00:45 Frank sign in where?
mrt 06 00:00:55 Annie sign where,
mrt 06 00:00:56 Frank ah ok sorry
mrt 06 00:00:57 gemma lol into chat. that's american. sorry
mrt 06 00:01:01 Frank I fell asleep
mrt 06 00:01:10 Frank I've just woken in a panic
mrt 06 00:01:25 Annie you thought you were going to miss it
mrt 06 00:01:38 Frank yes
mrt 06 00:01:47 Annie how did i read your mind
mrt 06 00:02:03 Frank telepathy Annie
mrt 06 00:02:21 gemma everyone go ahead. i will catch up in a minute. i
don't want to hold the discussion back as i know it's late for you all.
brb
mrt 06 00:03:09 Frank Is anyone else comming?
mrt 06 00:03:14 Doos dunno
mrt 06 00:03:19 Annie we haven't exactly started yet
mrt 06 00:03:27 Frank ah.....ok
mrt 06 00:03:37 Frank (breaths a sigh of relief
mrt 06 00:03:56 Doos did you get some reading done Frank?
mrt 06 00:04:35 Frank Yes
mrt 06 00:04:41 Frank been studying all day
mrt 06 00:04:53 Doos no wonder you dozed off
mrt 06 00:04:59 Frank then fell asleep just before lesson

mrt 06 00:05:11 Frank dozy student
mrt 06 00:05:13 Annie actually its good, it helps to remember
mrt 06 00:05:21 Frank what sleep?
mrt 06 00:05:24 Annie yep
mrt 06 00:05:51 Annie especially before exams, you study, and sleep,
study, sleep
mrt 06 00:06:01 Annie every 2 hours, your brain absorbs it
mrt 06 00:06:10 Doos hehe, little time for anything else really
mrt 06 00:06:24 Annie no .. lol
mrt 06 00:07:05 Frank how long can you keep it up?
mrt 06 00:07:22 Doos years and years
mrt 06 00:07:35 Frank I can't start yet.....it'll interfere
with.....
mrt 06 00:07:42 Frankwell everything
mrt 06 00:07:43 Frank lol
mrt 06 00:08:25 Doos what I did was starting to organize all my notes 3
months before exam and wrote my own book
mrt 06 00:08:32 Frank but I try to get as many hours a week as possible
mrt 06 00:08:51 Frank You still have it?
mrt 06 00:08:53 Doos then a week before I sent my girlfriend to her mom
and studied around the clock
mrt 06 00:08:56 Doos yah
mrt 06 00:08:58 Annie Frank, i don't mean that you have to do it all of
the time,
mrt 06 00:08:59 gemma back
mrt 06 00:09:07 Doos over 200 pages .. and I write small
mrt 06 00:09:18 Frank lol.....handwritten?
mrt 06 00:09:21 Annie but just in preparation and rereading and
rewriting and so on
mrt 06 00:09:21 Doos yah
mrt 06 00:09:42 Annie only at the heavy study time
mrt 06 00:10:20 Frank I was quite impressed with the depth the course
work goes into
mrt 06 00:10:31 Frank since it's only the foundation
mrt 06 00:10:36 gemma what course work are you talking about frank?
mrt 06 00:10:49 Frank the FGA
mrt 06 00:10:54 gemma k
mrt 06 00:11:01 Annie if you can kill the foundation, you are well on
your road to the next well in a breeze
mrt 06 00:11:08 Frank I signed up a week ago
mrt 06 00:11:21 * ClassyCarat (~ClassyCarat@68.8.99.232) has joined
#yg
mrt 06 00:11:25 Doos hi ClassyCarat
mrt 06 00:11:26 Annie its like the foundation of a house, if its strong
then the building will last forever
mrt 06 00:11:35 ClassyCarat Hey...All...
mrt 06 00:11:39 Annie hi classy
mrt 06 00:11:42 Frank Hi Classy Carat
mrt 06 00:11:58 ClassyCarat wots the topic??
mrt 06 00:12:13 Doos pleochroism and absorption spectra
mrt 06 00:12:18 ClassyCarat ahhh
mrt 06 00:12:31 Doos let me get a tea and then start?
mrt 06 00:14:19 Doos I'm settled
mrt 06 00:15:12 Doos you all still here?
mrt 06 00:15:24 Frank ready
mrt 06 00:15:29 ClassyCarat I died
mrt 06 00:15:32 Frank lol
mrt 06 00:15:33 Doos heh

mrt 06 00:15:45 Doos sneeze-atack?
mrt 06 00:15:58 ClassyCarat close
mrt 06 00:16:18 Doos okay, anyone have any questions regarding pleochroism?
mrt 06 00:16:56 ClassyCarat we're ALL smart..lol
mrt 06 00:17:08 Doos so it seems
mrt 06 00:17:13 gemma concised definition, please.
mrt 06 00:17:18 gemma concise, sorry
mrt 06 00:17:31 Doos uhm
mrt 06 00:17:38 gemma that's very concise
mrt 06 00:17:41 Annie lets start with pleochroism to define
mrt 06 00:18:21 ClassyCarat I wnat an answer from gembot....
mrt 06 00:18:36 Doos still working on that feature ClassyCarat
mrt 06 00:18:39 Annie he is very quite and sits in the front
mrt 06 00:18:39 ClassyCarat and some new fingers
mrt 06 00:18:47 ClassyCarat for moi
mrt 06 00:19:33 Doos you cut them off?
mrt 06 00:19:44 ClassyCarat c'mon Annie...
mrt 06 00:19:50 Annie you waiting for me
mrt 06 00:20:05 ClassyCarat naw mine are just spastic
mrt 06 00:20:17 Annie well pleochrosim stands for meaning many colours
mrt 06 00:20:23 Frank Yes Sorry.....were you waiting on us
mrt 06 00:20:40 gemma the characteristic of showing more than one color?
mrt 06 00:20:48 Doos yah
mrt 06 00:20:56 Annie and the dicroscope is one that helps us to distinuigush these of colours in different direction through the gem
mrt 06 00:21:04 Annie in a doubly refracting stones
mrt 06 00:21:10 Annie other than cubic
mrt 06 00:21:30 Annie all other crystal systems will go through "differential selective absorptions"
mrt 06 00:21:42 ClassyCarat why aen't all DR stones pleochroic?
mrt 06 00:21:49 Annie maily coloured stones
mrt 06 00:22:02 gemma differential selective absorptions?
mrt 06 00:22:41 Doos gemma, that means that colour get absorpt differtly along the ordinary and extra-ordinary rays
mrt 06 00:22:50 Annie differential selective absorptions meaning it has the ability to split colours into according to direction in which it is viewed
mrt 06 00:22:55 gemma oh, okay. i read but did not "study"
mrt 06 00:22:59 Annie such as gemma mentioned the o and e rays
mrt 06 00:23:52 Annie gemma can you tell me which systems would have o and e rays
mrt 06 00:23:58 Doos that is caused by different bonding in different directions of the crystal lattice
mrt 06 00:24:00 Frank Why would the two rays be aborbed differently?
mrt 06 00:24:27 Frank suerly both are cabsorbed by the same trace elemtin the gem
mrt 06 00:24:50 Frank (Can I get your lod fingers CC?)
mrt 06 00:25:01 * ClassyCarat has quit (Read error: Connection reset by peer)
mrt 06 00:25:02 * ClassyCarat (~ClassyCar@ip68-8-99-232.sd.sd.cox.net) has joined #yg
mrt 06 00:25:17 Annie the amount of pleochrosm and absorption is depenended on the amount of double refraction or on the colour of intensity of the stone body colour
mrt 06 00:25:26 ClassyCarat WAH!!! BOOTED!
mrt 06 00:25:31 Doos the bonding in the lattice varies with direction and hence so does the crystal field

mrt 06 00:25:49 Frank Ok
mrt 06 00:26:25 gemma so it depends on the o or e ray AND on the inclusions?
mrt 06 00:26:41 gemma i mean, how they are bonding?
mrt 06 00:26:44 Annie inclusions have nothing to do with it gemma
mrt 06 00:26:55 Annie just the way its bonded
mrt 06 00:26:57 Doos not the inclusions, the transition elements we discussed last week
mrt 06 00:27:00 gemma i mean bonding in the lattice
mrt 06 00:27:09 Annie ok
mrt 06 00:27:10 gemma my mistake, that is what i mean
mrt 06 00:27:17 gemma i should not get the terms mixed up
mrt 06 00:27:19 Annie its fine
mrt 06 00:27:44 gemma transistion elements that contribute to the color, correct?
mrt 06 00:28:21 Doos in different directions the bonding is diferent, so they need either more or lesser energy to produce absorpction
mrt 06 00:28:22 Annie yes
mrt 06 00:29:16 Doos shall I try to exlplain that a bit?
mrt 06 00:29:23 Frank does the structure of the atomic bonding affect how much the light slows by
mrt 06 00:29:29 Annie ok, so we understand that light enters a doubly refracting material
mrt 06 00:29:38 Annie yes frank
mrt 06 00:29:50 Frank ty
mrt 06 00:29:50 Annie other than the direction of optic axis
mrt 06 00:30:04 Annie the rays are plane polarised into two distinct refracted rays
mrt 06 00:30:14 Annie travelling at different speeds
mrt 06 00:30:28 Annie and possibly having differnt wavelengths
mrt 06 00:30:51 Annie and this is also evident because these two different directions will have different indices
mrt 06 00:31:27 Frank yp doos
mrt 06 00:31:49 Annie the waves produce two different rays knowns as pleochrosim
mrt 06 00:32:09 Annie sorry, frank, did you want Doos to explain something
mrt 06 00:32:13 Annie i will shut up
mrt 06 00:32:21 Doos I'll wait till you are finished Annie
mrt 06 00:32:30 Frank no sorry annie please continue
mrt 06 00:32:37 gemma yes annie please go on. it is making some sense to me
mrt 06 00:32:38 Annie ok go Doos
mrt 06 00:32:54 Doos no you finish, gets so confusing otherwise
mrt 06 00:33:03 Annie no go, its fine
mrt 06 00:33:07 Doos NO
mrt 06 00:33:07 Frank Sorry
mrt 06 00:33:13 Doos hehe
mrt 06 00:33:17 * ClassyCarat has quit (Ping Timeout)
mrt 06 00:33:25 Doos oh dear
mrt 06 00:33:33 Frank I apologise Annie
mrt 06 00:33:39 Frank I was following you
mrt 06 00:33:54 Frank then noted doos had asked a question
mrt 06 00:34:02 Frank and nobody answered
mrt 06 00:34:15 gemma (just ignore doos :lol:
mrt 06 00:34:17 Frank and I've broken your concentration
mrt 06 00:34:25 Frank sorry

mrt 06 00:34:40 Annie no, its fine, i asked if anyone understood pelochorism - no one answered me
mrt 06 00:34:47 * ClassyCarat (~ClassyCar@68.8.99.232) has joined #yg
mrt 06 00:34:52 Annie so i explained and told you what happenes
mrt 06 00:35:08 gemma actually, let's take this moment to back up, because i have a quesiton of something annie explained i don't understand
mrt 06 00:35:18 ClassyCarat I got booted..AGAIN
mrt 06 00:35:30 Annie classy, you need to sit still
mrt 06 00:35:39 ClassyCarat i guess so..
mrt 06 00:35:42 Doos I'll see what I can do about that ClassyCarat .. it's a ping timeout
mrt 06 00:35:44 Annie :)
mrt 06 00:35:52 ClassyCarat did my last ? come through?
mrt 06 00:35:59 Doos no
mrt 06 00:36:07 gemma annie, you said light enters other than the direction of the optic axes? what does this mean? :oops:
mrt 06 00:36:18 Annie ok gemma
mrt 06 00:36:34 Annie the light enters other than the direction of optic axis means
mrt 06 00:36:54 Annie that the two rays will vibrate to each other at right angles to each other
mrt 06 00:37:20 Annie and the optic axis is a single refraction in a doubly refractive stone
mrt 06 00:37:27 gemma oh, optic axis as the ordinary ray?
mrt 06 00:37:34 Annie the ordinary ray is that
mrt 06 00:37:44 ClassyCarat Why do minerals with similar lattises, say in the hex system, and similar color adultrants have so very different pleochroism?
mrt 06 00:37:47 Annie the extra o is the toehr
mrt 06 00:37:50 Annie other
mrt 06 00:37:55 gemma thank you, thought i was confused more than i am :)
mrt 06 00:37:56 Annie sorry i am bad with typing
mrt 06 00:38:26 Annie because they are bonded differently classy
mrt 06 00:38:31 * ClassyCarat has quit (ClassyCarat)
mrt 06 00:38:45 Annie ohhh classy
mrt 06 00:38:46 * ClassyCarat (~ClassyCar@68.8.99.232) has joined #yg
mrt 06 00:38:50 Doos that was his own fault .. he quitted
mrt 06 00:39:01 ClassyCarat NO I DIDNT!!!
mrt 06 00:39:04 Doos lol
mrt 06 00:39:05 Frank lol
mrt 06 00:39:20 Annie ok, you wana come to the front where we can hold on to you .. lol
mrt 06 00:39:33 ClassyCarat I'm gonna KILL gembot!!!
mrt 06 00:39:42 Doos lets take Chromium
mrt 06 00:40:04 Doos holdon, I'll kill her
mrt 06 00:40:14 Annie oh gembot is a girl is it
mrt 06 00:40:27 Frank now your in trouble doos
mrt 06 00:40:49 * gembot has quit (Read error: EOF from client)
mrt 06 00:40:53 ClassyCarat shoot...my Daddy told me never hurt a girl
mrt 06 00:41:14 Doos she is just taking up space anyway
mrt 06 00:41:23 gemma ?
mrt 06 00:41:42 Doos okay lets talk about Chromium
mrt 06 00:41:55 ClassyCarat Yah...
mrt 06 00:42:10 Doos it produces red in ruby, green in emerald and both in alexandrite

mrt 06 00:43:06 Doos emerald's structure is more openly packed than that of ruby

mrt 06 00:43:17 ClassyCarat and silver on my bumper

mrt 06 00:43:25 Doos lol

mrt 06 00:43:39 gemma the lattice of emerald is more loosely packed than ruby?

mrt 06 00:43:46 Doos yah

mrt 06 00:43:48 ClassyCarat yup

mrt 06 00:44:25 Doos so it produces a lesser strength crystal field than ruby

mrt 06 00:44:42 gemma lesser strength crystal field?

mrt 06 00:44:56 gemma as in not so tightly bonded?

mrt 06 00:45:01 Doos yah

mrt 06 00:45:04 gemma k

mrt 06 00:45:25 Doos so it needs another energy to create absorption

mrt 06 00:45:46 gemma now i'm lost. it needs another energy?

mrt 06 00:45:48 Doos alexandrite lies just between ruby and emerald bondingwise

mrt 06 00:46:15 Doos uhm .. no we have to go too deep

mrt 06 00:46:29 ClassyCarat another Bond girl??

mrt 06 00:46:33 Doos but just accept that for the time being

mrt 06 00:46:49 gemma do you mean it is so loosely packed the absorption bands exist for it?

mrt 06 00:46:54 gemma oops. ok

mrt 06 00:47:12 Doos in the transition elements there are unpaired ions in one of the shells

mrt 06 00:47:19 gemma yes

mrt 06 00:48:15 gemma i think i know where you are going with this. ok. that makes sense.

mrt 06 00:48:28 Doos when energy (like white light) enters the stone and has just the right frequentie .. then some of those ions get blasted out to another shell (or orbit)

mrt 06 00:48:54 gemma k

mrt 06 00:48:59 Doos causing absorption of a particular part of the whitelight

mrt 06 00:49:11 gemma k

mrt 06 00:49:27 Doos so the swallow the energy of f.i. the blue part of the light

mrt 06 00:49:31 Doos they*

mrt 06 00:49:49 Doos so the blue gets eaten by the stone

mrt 06 00:50:34 Doos in different directions .. the bonding is different .. causing different behaviour

mrt 06 00:50:53 Doos causing pleochroism

mrt 06 00:51:24 Doos thats it

mrt 06 00:51:30 gemma ok. i forget about continual electron exchange, etc.

mrt 06 00:51:42 gemma i keep thinking of stones as static

mrt 06 00:51:59 Doos always things happening in there

mrt 06 00:52:10 gemma yes, the little universes

mrt 06 00:52:14 ClassyCarat are color change stones directional?

mrt 06 00:52:16 Doos indeed

mrt 06 00:52:29 Doos not all

mrt 06 00:53:16 ClassyCarat any? eg?

mrt 06 00:53:17 Doos but then you are talking about colourchange .. garnet can show that, but it's not pleochoic

mrt 06 00:53:30 ClassyCarat true

mrt 06 00:54:08 Doos in garnet there is no optical axes and light doesnt get plane polarized

mrt 06 00:54:16 Annie then again garnets are isotropic material
mrt 06 00:54:28 Annie so light travels in all directions and are all the same
mrt 06 00:54:34 ClassyCarat due to electron excitement, nonetheless...
mrt 06 00:54:44 Annie no optics
mrt 06 00:54:54 ClassyCarat how so?
mrt 06 00:55:11 Doos yes the colourchange occurs due to different energy by the lightsource
mrt 06 00:55:28 Annie garnet is in the cubic structure
mrt 06 00:55:43 Annie so if you viewed under one light source you would still pick up the body colour
mrt 06 00:55:52 Annie all the same
mrt 06 00:56:12 Annie a monochorism being one colour seen at one time
mrt 06 00:56:53 gemma so if a cubic can be a color change stone, why do we perceive that?
mrt 06 00:57:26 Annie the elements within itself have diffeent excitations under light sources
mrt 06 00:57:47 Doos because daylight produces a different kind of energy than a lightbulb
mrt 06 00:58:24 gemma so it's the light source, as you say, and not pleochroism
mrt 06 00:58:26 Annie rich in blue
mrt 06 00:58:33 Doos yes gemma
mrt 06 00:58:36 gemma ty
mrt 06 00:58:45 Annie yes
mrt 06 00:59:23 Doos how many colours can be seen in an uni-axial gemstone?
mrt 06 00:59:26 Frank Is the red / green thing caused by this electron transfer then?
mrt 06 00:59:33 Doos yes Frank
mrt 06 00:59:52 Frank am I in the room still?
mrt 06 00:59:56 gemma two
mrt 06 00:59:57 Annie as the chromium in an alexandirite
mrt 06 01:00:10 * Frank has quit (Frank)
mrt 06 01:00:13 Annie is equally spread
mrt 06 01:00:37 * Frank (~Frank@ACA30BC7.ipt.aol.com) has joined #yg
mrt 06 01:00:37 Annie what have you done to frank, doos
mrt 06 01:00:49 Frank lol.....back Annie
mrt 06 01:00:51 gemma annie please go on, that was interesting what you were going to say
mrt 06 01:00:52 Frank :)
mrt 06 01:00:53 Doos you were still here Frank
mrt 06 01:01:06 Frank I don't know what happened
mrt 06 01:01:13 gemma poor frank . . .
mrt 06 01:01:14 Frank it looked like it was working
mrt 06 01:01:16 Doos must be some lag frank
mrt 06 01:01:23 Annie coming back to alex
mrt 06 01:01:28 Frank but when I tried to type It wouldn't appear
mrt 06 01:02:10 Frank I never got any message sfter you explained the ion movement thingy
mrt 06 01:02:22 Frank Ok back to alex
mrt 06 01:02:23 Doos uhm
mrt 06 01:02:34 gemma hellooo alex
mrt 06 01:02:43 ClassyCarat go on Annie...
mrt 06 01:02:53 gemma (i think annie fell asleep on her keyboard)
mrt 06 01:03:01 Annie ok,
mrt 06 01:03:05 gemma :)

mrt 06 01:03:41 Annie so the alex has 50% in balance within the structure that's going to excite the light energy

mrt 06 01:04:03 Annie being rich in blue/green's in daylight

mrt 06 01:04:22 Annie and the incandescent or artificially being rich in reds and so

mrt 06 01:04:48 Annie therefore the excitation under those lights is absorbed

mrt 06 01:05:53 Frank Am I still here?

mrt 06 01:05:58 ClassyCarat yup

mrt 06 01:05:58 Doos yes frank

mrt 06 01:05:59 Frank ah sorry?

mrt 06 01:06:02 Annie frank, come to the front

mrt 06 01:06:16 Frank shuffles forward

mrt 06 01:06:38 Annie sit next to classy

mrt 06 01:06:47 Frank yes maam

mrt 06 01:06:50 gemma (gemma pulls frank's hair as he sits down in front of her)

mrt 06 01:06:51 Annie lol

mrt 06 01:06:58 Frank lol

mrt 06 01:07:33 ClassyCarat (hey, frank... got any spitwads?)

mrt 06 01:07:55 ClassyCarat AW...DANG...

mrt 06 01:08:03 * Doos smacks with the ruler

mrt 06 01:08:04 Frank yeah...what?

mrt 06 01:08:11 * ClassyCarat has quit (ClassyCarat)

mrt 06 01:08:11 gemma OW!

mrt 06 01:08:16 * ClassyCarat (~ClassyCar@68.8.99.232) has joined #yg

mrt 06 01:08:23 Frank you hit too hard doos

mrt 06 01:08:26 Doos lol

mrt 06 01:08:39 ClassyCarat ARGGGGHHHH

mrt 06 01:09:06 Frank Annie.....are you saying the reds in the light from the bulb and the greens from the daylight

mrt 06 01:09:09 gemma so alex is green under incadescent and red in daylight?

mrt 06 01:09:18 gemma lol frank.

mrt 06 01:09:23 Doos frank had it

mrt 06 01:09:52 Annie huh, did i say something wrong

mrt 06 01:09:54 Annie yes frank

mrt 06 01:09:55 Frank and the colour is in the source of the light?

mrt 06 01:10:02 gemma if the incadescent is rich in red why would the red show up?

mrt 06 01:10:17 gemma oh okay, frank , yeah.

mrt 06 01:10:34 gemma the light influences the color in color change.

mrt 06 01:10:44 gemma if have to write that 50 times before i get it.

mrt 06 01:11:41 Annie you will

mrt 06 01:11:41 gemma so the incadescent "enhances" the red of the stone

mrt 06 01:11:57 gemma sunlight enhances the blue/greens

mrt 06 01:12:02 gemma is that right?

mrt 06 01:12:17 gemma i shouldn't say enhance

mrt 06 01:12:24 Annie yes but no enhancing

mrt 06 01:12:26 gemma is should say accentuates

mrt 06 01:12:28 Frank very poetic though

mrt 06 01:12:57 gemma accentuates or "brings out"

mrt 06 01:13:14 Annie accentuates the beauty

mrt 06 01:13:22 Frank yes:)

mrt 06 01:13:22 Annie of something so beautiful and rare

mrt 06 01:13:39 gemma oh annie you look great daylight or candlelight or whatever!

mrt 06 01:13:51 gemma (gemma is so jealous!)

mrt 06 01:13:53 ClassyCarat sheesh.....

mrt 06 01:13:54 Annie i look great in any light

mrt 06 01:13:58 gemma she does, cc

mrt 06 01:13:58 Annie lol

mrt 06 01:14:03 gemma she's lovely

mrt 06 01:14:22 Annie isn't she lovely, (steve wonder)

mrt 06 01:14:24 ClassyCarat a genuine GEM!!! lol

mrt 06 01:14:32 Annie yes a natural one

mrt 06 01:14:43 gemma :)

mrt 06 01:15:08 ClassyCarat I'm just synthetic.. close but no cigar....

mrt 06 01:15:37 gemma and i am quite monochromatic --- BORING [laughing]

mrt 06 01:16:01 gemma maybe that's why i like horses and gems, put a little dash and sparkle to me :D

mrt 06 01:16:21 Annie so funny and smart gemma

mrt 06 01:16:25 gemma sorry for the interuption

mrt 06 01:16:39 gemma it just fell out of my fingertips onto the board

mrt 06 01:16:43 gemma bad gemmma

mrt 06 01:16:45 Frank lol...back to alex

mrt 06 01:16:45 Doos what kinds of pleochroism are there?

mrt 06 01:17:05 gemma dichroic trichroic?

mrt 06 01:17:08 Frank dichroism and trichroism sp?

mrt 06 01:17:11 Doos yah

mrt 06 01:17:26 Annie so if you know your crystal systems

mrt 06 01:17:36 Annie then you would get which in which ??

mrt 06 01:17:48 gemma uniaxial dichroic

mrt 06 01:17:56 gemma biaxial both

mrt 06 01:17:57 ClassyCarat nope

mrt 06 01:18:00 gemma ?

mrt 06 01:18:00 Frank biaxial trichroic

mrt 06 01:18:06 Annie good

mrt 06 01:18:12 Annie and some gem examples in those

mrt 06 01:18:21 Frank tanzy

mrt 06 01:18:25 Doos lol

mrt 06 01:18:27 Annie yes

mrt 06 01:18:32 Frank and alex

mrt 06 01:18:45 Annie so tanzy is which

mrt 06 01:18:52 Frank biaxial

mrt 06 01:18:54 Annie di or tri

mrt 06 01:18:58 Frank orthorhombic

mrt 06 01:19:02 Annie yep

mrt 06 01:19:04 Frank tri

mrt 06 01:19:07 Annie therefore its tri

mrt 06 01:19:10 Annie good frank

mrt 06 01:19:14 Frank ty

mrt 06 01:19:14 Annie and alex

mrt 06 01:19:18 Annie gemma

mrt 06 01:19:20 Annie or classy

mrt 06 01:19:28 gemma i don't know my stones well yet. i pass

mrt 06 01:19:30 Frank same tri biaxial orthorhombic

mrt 06 01:20:08 Frank Robert has a great chart on lesson 1 or 2...

mrt 06 01:20:13 Annie yep

mrt 06 01:20:17 Doos if you don't have a dichroscope handy .. how can you see the different pleochroic colours?

mrt 06 01:20:23 Frank you can keep adding the stones to the lists

mrt 06 01:20:42 Frank by turning in your hand

mrt 06 01:20:52 gemma (yes, frank but i have already forgotten them . . .)

mrt 06 01:20:56 Frank and looking through#
mrt 06 01:21:00 Annie like andalusite
mrt 06 01:21:03 Doos you can't see them unaided (mostly)
mrt 06 01:21:07 gemma that's what i wanted to say, annie
mrt 06 01:21:11 gemma trichroic
mrt 06 01:21:11 Annie mostly unaided eye
mrt 06 01:21:15 Annie trichorism
mrt 06 01:21:29 Frank I have some rough bits and bobs and I can see it
in many of them
mrt 06 01:21:50 gemma can you see the andalusite colorless by eye?
mrt 06 01:21:53 Doos in ruby aswell?
mrt 06 01:21:58 Frank sort of fuzzy visual gemology
mrt 06 01:22:07 Frank send me some
mrt 06 01:22:10 Doos lol
mrt 06 01:22:22 Doos well then you never need a dichroscope
mrt 06 01:22:22 Frank no but pink and red arent too different
mrt 06 01:22:38 gemma but you can't tell them well apart by eye can you
mrt 06 01:22:47 Doos the answer is a polaroi filter, like a pair of
sunglasses
mrt 06 01:22:52 Frank ut's easier if the colours are moe apart on the
spectrum
mrt 06 01:23:09 Frank ah yes
mrt 06 01:23:16 Annie does anyone wana a loo break
mrt 06 01:23:22 Frank turn it 90 degrees and see both colours
mrt 06 01:23:34 Frank yp annie
mrt 06 01:23:39 Annie i do
mrt 06 01:23:42 gemma i have to leave anyeay. i have to bring the horses
in and go see my mom in the nursing facility -- broken leg.
mrt 06 01:23:49 Doos only if you break it up and turn one side 90°
mrt 06 01:24:27 Frank cant you just hold the glasses and use one
lens...turning that to see the colour change?
mrt 06 01:24:43 gemma see you in the forums. night all.
mrt 06 01:24:46 Doos yah, but you cant see both colours at once
mrt 06 01:24:49 * gemma (~gemma@68.72.152.77) has left #yg
mrt 06 01:24:50 Frank bye gemma
mrt 06 01:24:52 Doos night gemm
mrt 06 01:24:56 Doos too late
mrt 06 01:25:17 Frank no agreed but you could still see the change
mrt 06 01:25:21 Doos yes
mrt 06 01:25:36 Frank like half a london dichroscope
mrt 06 01:25:45 ClassyCarat sorry...I got side tracked also...sorry,I
gotta git...have fun all....
mrt 06 01:25:46 Doos yes
mrt 06 01:25:53 Frank bye CC
mrt 06 01:25:55 Doos bye ClassyCarat
mrt 06 01:26:03 ClassyCarat l8r, all
mrt 06 01:26:09 * ClassyCarat (~ClassyCar@68.8.99.232) has left #yg
mrt 06 01:26:27 Frank potty time doos
mrt 06 01:26:34 Doos yah and some tea
mrt 06 01:26:42 Doos no booze left :(
mrt 06 01:27:32 Annie hello
mrt 06 01:27:49 Annie uhm,
mrt 06 01:28:21 Doos they had to rush Annie
mrt 06 01:28:30 Annie oh
mrt 06 01:28:55 Annie ok, i guess the spectra will need to be next week
mrt 06 01:29:04 Annie we didn't get through it
mrt 06 01:29:05 Doos yah

mrt 06 01:29:34 Doos but atleast we scratched the crystal field theory .. that will make it easier next week

mrt 06 01:29:45 Annie yep

mrt 06 01:32:15 Doos I think frank has an outdoors potty

mrt 06 01:32:23 Annie lol

mrt 06 01:32:40 Frank back.....funny it keeps coming back to crystals...when you try to get down deep

mrt 06 01:32:43 Frank lol

mrt 06 01:32:59 Frank used to have

mrt 06 01:33:24 Doos yah, it's the bases of most what is going on

mrt 06 01:33:52 Doos wakeup Annie

mrt 06 01:34:22 Doos anyone got a beep?

mrt 06 01:34:45 Frank is the ion field thing the same as that which causes fluorescence

mrt 06 01:34:51 Doos yah

mrt 06 01:35:07 Frank and it also can be a cause of normal colour

mrt 06 01:35:16 Doos yes all that

mrt 06 01:35:35 Frank I didn't know any of this

mrt 06 01:35:35 Doos there are some other causes aswell, but that is the most common one

mrt 06 01:35:38 Annie there was a beep

mrt 06 01:35:43 Frank lol

mrt 06 01:35:52 Doos you got a beep aswell Frank ?

mrt 06 01:36:00 Annie what was that doos

mrt 06 01:36:05 Frank no.....no beeps this end

mrt 06 01:36:17 Frank yes.....just got one now

mrt 06 01:36:19 Doos it beeps on the word "wakeup"

mrt 06 01:36:29 Annie wakeup

mrt 06 01:36:31 Annie wakeup

mrt 06 01:36:33 Doos slow modem Frank

mrt 06 01:36:34 Annie lol

mrt 06 01:36:38 Frank I get an extra five minutes

mrt 06 01:36:43 Doos lol

mrt 06 01:36:48 Frank life is fine

mrt 06 01:37:01 Frank second one not arrived yet

mrt 06 01:38:26 Frank and the density (or structure) of the crystal affects the velocity of the light

mrt 06 01:38:37 Frank and also affects colour?

mrt 06 01:38:44 Doos yes, that is called optical density

mrt 06 01:39:05 Doos well the colour is not so very much affected by it

mrt 06 01:39:16 Doos atleast not to my knowledge

mrt 06 01:39:48 Frank but speed through the stone would control emerging waves

mrt 06 01:40:04 Frank and cause colours to complement or cancel?

mrt 06 01:40:08 Doos that is true .. uhm

mrt 06 01:40:59 Doos need to think a bit on that one

mrt 06 01:41:06 Frank k

mrt 06 01:41:50 Doos are you skipping through the course fast?

mrt 06 01:42:24 Frank No.....I did a quick readthrough last week but I'll go back and start at the beginning next week

mrt 06 01:42:48 Frank I have to send my section assignments in by post

mrt 06 01:43:09 Frank and can't do the next one till he returns the previous

mrt 06 01:43:29 Frank I got a letter from my tutor yesterday

mrt 06 01:43:32 Doos when we finished this chapter .. all there is left to do is good old stones one by one

mrt 06 01:43:40 Frank introducing himself

mrt 06 01:43:49 Doos ah nice and fast

mrt 06 01:43:59 Frank I'm looking forward to doing the stones
mrt 06 01:44:00 Doos who is it
mrt 06 01:44:25 Frank John Harris.....he's from Cumbria he owns a
jewellery shop
mrt 06 01:44:43 Frank and lectures on and collects gems
mrt 06 01:45:11 Doos I think he wrote some stuff for the journal
mrt 06 01:45:31 Frank the letter recommends one to two years for
foundation and two for the diploma:(
mrt 06 01:45:37 Doos lol
mrt 06 01:45:44 Frank but we'll see
mrt 06 01:45:48 Doos I did it in one go
mrt 06 01:45:57 Frank nice one
mrt 06 01:46:05 Frank how long?
mrt 06 01:46:11 Doos you havent started yet and know the foundation
almost complete
mrt 06 01:46:18 Doos 2 years
mrt 06 01:46:47 Frank yes I really feel that you and annie have given me
a great head start with it all
mrt 06 01:47:13 Doos 2 more weeks and the practicals begin
mrt 06 01:47:25 Doos some instrument usage and the stones
mrt 06 01:47:40 Frank yes.....how will you tackle them.....several /
week
mrt 06 01:47:45 Frank or one?
mrt 06 01:47:56 Doos dunno .. that would take a long time
mrt 06 01:47:59 Frank yes
mrt 06 01:48:38 Doos maybe do some groups or the ones that raise
questions
mrt 06 01:48:56 Annie the areas where you may have difficulty
mrt 06 01:48:57 Doos but in fact it is all just memorizing them
mrt 06 01:49:27 Doos the garnet group f.i. can be quite triky
mrt 06 01:49:36 Frank yes but talking about itmaybe answering
questions on the properties would be good reinforcement
mrt 06 01:50:00 Frank yes the garnet thing is such a big field
mrt 06 01:50:09 Doos maybe just some stuff that is very helpfull and
diagnostic
mrt 06 01:50:13 Annie yes of course
mrt 06 01:50:29 Annie the garnet thing is not until diploma time isn't
it in FGA doos
mrt 06 01:50:36 Doos let me see
mrt 06 01:50:36 Annie or does it involve in the foundation as well
mrt 06 01:51:10 Doos its in the foundation
mrt 06 01:51:11 Frank I think they pick some specific garnets
mrt 06 01:51:33 Frank almandine for the specrosopicchaptes etc
mrt 06 01:51:53 Doos all are in their
mrt 06 01:51:53 Annie yes, thats because of the spectra
mrt 06 01:52:20 Frank so whats added for the diploma course?
mrt 06 01:52:34 Frank just more stones?
mrt 06 01:52:36 Doos more stones
mrt 06 01:52:42 Annie identification and more stones
mrt 06 01:52:47 Annie is it
mrt 06 01:52:56 Doos yah
mrt 06 01:53:12 Frank does the theory go much deeper?
mrt 06 01:53:16 Doos the synthetics are in the foundation aswell
mrt 06 01:53:20 Doos oh yes
mrt 06 01:53:22 Annie yep the syns
mrt 06 01:53:32 Annie and unusual stones maybe
mrt 06 01:53:41 Doos yah
mrt 06 01:53:51 Frank oh joy

mrt 06 01:54:05 Annie i am not sure of fga, but we have a chapter full of the lesser known stones

mrt 06 01:54:21 Doos I cant remember that

mrt 06 01:55:29 Frank there is a lot of information on how to answer the exam questions

mrt 06 01:55:44 Frank and lot of sample questions

mrt 06 01:56:03 Annie if you can ask your tutor for past exam questions papers

mrt 06 01:56:11 Annie i am sure you can practice on those as well

mrt 06 01:56:15 Annie Frank

mrt 06 01:56:35 Annie and maybe one of your chapters will have the examples

mrt 06 01:56:37 Frank They gave me copies of the last five years at the gem-a

mrt 06 01:56:44 Doos ah nice

mrt 06 01:56:46 Annie oh yes, well thats it then

mrt 06 01:56:56 Doos I still have mine

mrt 06 01:57:03 Annie oh great

mrt 06 01:57:25 Frank do you get to keep it

mrt 06 01:57:33 Doos yes

mrt 06 01:58:21 Frank I got some sample stones as well annie

mrt 06 01:58:23 Doos the exams take up 2½ days in total

mrt 06 01:58:31 Annie oh that is great

mrt 06 01:58:34 Frank nice to have something new to look at

mrt 06 01:58:36 Annie Frank

mrt 06 01:59:03 Frank one day for foundation.....I'm not sure with the diploma

mrt 06 01:59:04 Annie I guess they are the student sets that Robert talks about

mrt 06 01:59:09 Frank but I think 2

mrt 06 01:59:25 Frank I got these from the gem-a

mrt 06 01:59:31 Annie yes

mrt 06 01:59:39 Annie yes i know

mrt 06 01:59:43 Doos one day theory and half a day practise

mrt 06 01:59:48 Frank I'm going to try and get my own

mrt 06 02:00:18 Frank and study them and then sell them on to another student and buy more

mrt 06 02:00:43 Frank I'd like to look at as many crystals, rough and cut stones as I can

mrt 06 02:01:05 Annie yes, thats the way, frank you must also get different crystals to look at

mrt 06 02:01:17 Frank It's the big down side to being a distance student.....no practical experience

mrt 06 02:01:52 Frank yes I remember you told me in a crystal lesson to try and handle as many as I could

mrt 06 02:01:57 Annie believe me if you were doing more practical on the side, your theory would link in much better

mrt 06 02:02:14 Annie and all is related to crystallagraphy

mrt 06 02:02:31 Annie thats why when we say, you must understand crystallography all makes sense so much better

mrt 06 02:02:38 Frank yes.....I'm not on a big budget but if I could study them them sell them to but more it would solve the problem

mrt 06 02:02:53 Annie every test is related to one another

mrt 06 02:03:03 Frank I love the crystals

mrt 06 02:03:16 Frank yes

mrt 06 02:03:25 Annie good i am sure if you got crystals that you loved it would be hard to part with them

mrt 06 02:03:47 Frank yes I know.....the danger of gemmology

mrt 06 02:03:56 Doos sell the crapy ones as "rare" species
mrt 06 02:03:57 Annie :)
mrt 06 02:04:26 Frank If I could handle quite a lot I'd get the best for
the collection
mrt 06 02:05:02 Doos hey gus, I'm going to tuck in
mrt 06 02:05:06 Doos guys*
mrt 06 02:05:16 Annie sure we can call it a night
mrt 06 02:05:24 Frank ok.....me too soon bye doos
mrt 06 02:05:35 Doos night all, was nice again
mrt 06 02:05:39 Doos kisses Annie
mrt 06 02:05:40 Frank bye annie
mrt 06 02:05:44 Doos night Frank
mrt 06 02:05:45 Annie bye Frank,
mrt 06 02:05:46 Frank yes good chat
mrt 06 02:05:46 Annie bye Doos

**** ENDING LOGGING AT Sun Mar 6 02:05:52 2005