

[03:44] VPardieu (~dd805b3f@84.24.180.138) joined #go.
[03:44] <Alain> hi Vincent
[03:44] <MoDo> Hi, Vincent!
[03:44] <VPardieu> Hello...
[03:44] <Annie> Hi Vincent, welcome
[03:44] <Barbra> Hi Vincent
[03:44] <Aussie> Hi Vincent
[03:44] <VPardieu> well its working!
[03:44] <Alain> how are you today Vincent?
[03:44] <VPardieu> great!
[03:44] <VPardieu> just wake up...
[03:45] <Barbra> Dick Hughes did a lecture here last Tuesday, filled with pictures of you in Madagascar.
[03:45] <Alain> you have time to grab some coffee
[03:45] <VPardieu> good I've 2 cofee and an orange juice near me...
[03:45] <VPardieu> its perfect
[03:45] <Annie> can we offer some cookies
[03:45] <MoDo> Question!!!
[03:45] <VPardieu> Oh Dick gad a lecture?
[03:46] <VPardieu> was it good?
[03:46] <MoDo> How early should someone stand in line for your Tucson lecture??
[03:46] <Barbra> Yes! it was great. He was looking forward to the talk the 2 of you will give in Tucson
[03:46] Cattrix (~Cattrix@172.195.204.208) joined #go.
[03:46] <Alain> hi Cattrix
[03:46] <MoDo> Hi, Cat
[03:46] <Annie> Hi Cat
[03:46] <Barbra> Hi Ct
[03:46] <VPardieu> Hum... MoDo, I dont really understand what do you mean?
[03:47] <VPardieu> Hi Cat
[03:47] ux4 (~ux4@70.152.126.133) joined #go.
[03:47] <MoDo> It's first-come, first-seated...how early should I show up to make sure I get in??
[03:47] <Cattrix> Hello:)
[03:47] <Barbra> Hi ux4
[03:47] <Alain> hi john, long time no see
[03:47] <Annie> Hi John
[03:47] <VPardieu> Hi UX4
[03:47] <MoDo> Hey, John!!
[03:47] <ux4> Hi..Great 2 c u all!
[03:47] <Cattrix> I am late?
[03:47] <Barbra> no
[03:48] <Cattrix> :)
[03:48] <Alain> no Cattrix, we start in about 10 minutes
[03:48] <VPardieu> Ok MoDo... Well absulutly no idea...
[03:48] <Aussie> Vincent any news around the blue sapphire world over there we have major producers considering closing for good hear.c
[03:48] <VPardieu> I've never been to Tucson...
[03:48] <VPardieu> Or ever put my food on the new world...
[03:48] <MoDo> Okay...I'll just make it early! :-)
[03:49] <VPardieu> About blue sapphire, there was when I came back from my 4 month trip some rumors about a new treatment...
[03:49] Frank (~Frank@172.173.79.30) joined #go.
[03:49] <Aussie> O dear!
[03:49] <MoDo> Hi, Frank
[03:49] <Alain> hi Frank

[03:49] <VPardieu> but I got very different info from the people I was asking..

[03:49] <Annie> Hi Frank

[03:49] <Aussie> Not another

[03:49] <VPardieu> Hi franck

[03:49] <Frank> Hi all :)

[03:50] <ux4> test

[03:50] <VPardieu> No if you got too different info it means that you are far from the origin...

[03:50] <VPardieu> too much distortion...

[03:50] <Aussie> No buyers hear for 5 months

[03:51] <VPardieu> In fact it is probably not a new one, just some evolution of what is already existing.

[03:51] <VPardieu> It is probably in Sri Lanka

[03:51] <VPardieu> where the burners for blue sapphire sounds to have become better than the Thais

[03:51] <Aussie> In blue sapphire?

[03:52] <Barbra> What would make them better?

[03:52] <VPardieu> The fact was that many Sri Lanka were buying blue sapphires in Thailand...

[03:53] <VPardieu> They are to my infos heating the stones over very long periods of time...

[03:53] <VPardieu> several weeks.

[03:53] <Alain> what is the usual time rate for burning?

[03:53] <VPardieu> as some stones has still some potential probably.

[03:53] <VPardieu> well in Pailin you can heat a blue sapphire overnight...

[03:53] <Aussie> I was interested in your comments about King Star, he bought all our production

[03:54] <VPardieu> but usually it is between one and 4 days.

[03:54] <Aussie> High temp or lower?

[03:54] <VPardieu> Oh, yep I'm working currently on them...

[03:54] cityfire (~cityfire@68.111.144.175) joined #go.

[03:54] <Alain> hi cityfire

[03:54] <VPardieu> Quite high...

[03:55] <cityfire> hey doos and all

[03:55] <Annie> Hi Citifire

[03:55] <VPardieu> for blue sapphire around 1500 to 1600 I guess

[03:55] <Aussie> Our seem to darken over 1400

[03:55] <VPardieu> Hi Citifire

[03:55] <cityfire> hello vincent

[03:55] <ux4> hi cf

[03:55] <Barbra> Interesting....is there a diagnostic way to tell the difference between heating times? 4 days vs. 3 weeks?

[03:55] <Alain> Sounds like that's pretty close to melting point

[03:55] <VPardieu> No...

[03:56] <VPardieu> You cannot know if a stone was heated 1 or 20 times..

[03:56] <VPardieu> 1 days or 3 months...

[03:56] <VPardieu> Sorry I correct: I dont know...

[03:56] <Aussie> Did you notice the thread about heating causing chipping

[03:56] <VPardieu> No the melting point is much higher...

[03:57] <VPardieu> around 2050C

[03:57] <VPardieu> if I remember well

[03:57] <Alain> Oh I thought around 1850, but that was just a guess

[03:58] <Aussie> does bulk diffusion cause sapphire to become brittle

[03:58] <VPardieu> Well I did not noticed chipping really as I'm not really doing durability studies on sapphires...

[03:58] <Barbra> I understand, there is a variety of orange corundum found in Madagascar, associated with chrysoberyl, that is NATURALLY beryllium containing. Kind of naturally diffused.

[03:58] <VPardieu> But some burners told me that heated stones are a little bit more brittle than unheated...

[03:59] <VPardieu> except of course if the unheated stone had a fracture and if you consider heating with flux.

[03:59] Guest (~Guest@80.186.123.200) joined #go.

[03:59] <VPardieu> Hum Barbra... I would be surprised...

[03:59] Guest (~Guest@80.186.123.200) left irc: Guest

[03:59] <MoDo> Guest must be shy

[04:00] <Barbra> Dick Hughes mentioned it

[04:00] <VPardieu> Most of sapphires in Ilakaka are found along with chrysoberyl...

[04:00] Guest (~Guest@80.186.123.200) joined #go.

[04:00] <VPardieu> it happen also in Mogok and in Sri Lanka

[04:00] <Aussie> any break throughs in easy test to tell if diffused or just heated

[04:00] <Alain> hello Guest

[04:00] <Annie> Hi Guest

[04:00] <Barbra> Are you aware of beryllium containing sapphires?

[04:00] <VPardieu> Really... Dick said that?

[04:00] <Guest> Hello everybody

[04:01] <Barbra> yep

[04:01] <Alain> hi guest, may we know your first name .. easier to communicate that way

[04:01] <VPardieu> I've heard that some rubies from Namya in Burma had possibly a low content of beryllium as a trace element...

[04:01] <Guest> Yes of course, it is Casimir

[04:01] <ux4> HiC

[04:01] <MoDo> Hi, Casimir

[04:01] <Barbra> Hi Casimir

[04:01] <VPardieu> but to detect that you need instruments that we dont have at AIGS...

[04:01] <Alain> I'll change it if that's okay Casimir

[04:01] Mari (~Mari@172.145.184.205) joined #go.

[04:01] <ux4> HiM

[04:02] <Guest> ok

[04:02] Nick change: Guest -> Casimir

[04:02] <Frank> When you are looking for signs of heating...Why don't stones reheated naturally while in the ground such as those found in metamorphic marbles show zircon haloes and other signs of heating?

[04:02] <Alain> hi Mari

[04:02] <Mari> Hi

[04:02] <Barbra> what instruments are needed to positively detect diffusion?

[04:02] <Annie> Hi Mari

[04:02] <Casimir> Hi Mari

[04:02] <VPardieu> Well some stones are heated by the nature...

[04:02] <Annie> Hi Casimir

[04:02] <Alain> Ok people shall we start "officially"?

[04:03] <VPardieu> but in this case the cooling is usually over very long period of time...

[04:03] <MoDo> Yes...let's get this organized

[04:03] <Barbra> yes, let's start

[04:03] <VPardieu> allowing some healing in a very different pattern compared to the ultra rapid colling from human over...

[04:03] <Frank> So it is the quick cooling and not the temperature rising that causes the stress haloes?

[04:04] <VPardieu> nobody will cool its sapphires over 10 years or even over 1 month...

[04:04] <VPardieu> too costly.

[04:04] <Frank> ok thanks

[04:04] <VPardieu> No...

[04:04] <Casimir> how long has man been heating stones?

[04:04] <Annie> shall we use 'question' and 'ok',

[04:04] <Alain> Ok everyone, let's start of with welcoming Vincent and a big thank you to him for doing this with us

[04:05] <VPardieu> The stress halos around zircon are du to the natural radioactivity of the uranium contained in the zircon

[04:05] <VPardieu> that will slowly turn the zircon crystal into a kind of zircon glass...

[04:05] <VPardieu> turn a high zircon into a low zircon...

[04:05] <cityfire> Vincent welcome and thankyou thankyou thankyou

[04:05] <VPardieu> the low zircon has a lower SG

[04:05] <Alain> heh, oh let's just go on, this format seems to work

[04:06] <VPardieu> and then its volume expand...

[04:06] <Barbra> agreed

[04:06] <VPardieu> then it break the corundum around

[04:06] <VPardieu> creating haloes...

[04:06] <Barbra> this would happen eventually without heat treatment?

[04:06] <VPardieu> Sure....

[04:07] <VPardieu> When you heat a sapphire containing zircons with haloes...

[04:07] <VPardieu> the haloes will then turn from clear fissures filled with vacuum to something more looking like a fingerprint...

[04:08] <VPardieu> There are some photos about that in the inclusion gallery I did about pailin sapphire, before and after heat treatment..

[04:08] PCh (~PCh@61.91.69.70) joined #go.

[04:08] <MoDo> Hi, PCh

[04:08] PCh (~PCh@61.91.69.70) left irc: PCh

[04:08] Crystal (~Crystal@216.98.174.32) joined #go.

[04:08] <Alain> Vincent, would the zircon inclusion be restored to high zircon because of this heating and will that effect the colour or so?

[04:09] <VPardieu>
before:http://www.fieldgemology.com/LaboInclusionDetail.php?sub_id=49&type=lab&id=395

[04:09] <VPardieu> after:
http://www.fieldgemology.com/LaboInclusionDetail.php?No=10&sub_id=49&type=lab

[04:10] <VPardieu> I dont know Alain...

[04:10] <Aussie> Do you think there is a future in marketing the old Basic heated sapphire or fully natural or have the new BE treatments got us beat.

[04:10] <Alain> Maybe something that could be seen in polarized light

[04:10] <VPardieu> Some specific studies should be made about this aspect...

[04:10] <VPardieu> Heu Casimir...

[04:11] Topaz (~Topaz@61.91.69.70) joined #go.

[04:11] <Alain> Vincent, tell us if we are going to fast

[04:11] <VPardieu> to answer your question... I think men began to heat stones...

[04:11] <Casimir> Hello, greetings from Finland

[04:11] <VPardieu> few days after miners began to eat around a fire...

[04:12] <VPardieu> No its Ok...

[04:12] <Frank> So the process from high zircon to low and back again does actually cause shrinkage in the size of the crystal?...we discussed this last week...where does the extra mass come from and go to when zircon changes it's SG

[04:12] <VPardieu> not too fast...

[04:12] <VPardieu> There is no extra mass coming...

[04:12] <VPardieu> its just that the structure is changing...

[04:13] <VPardieu> the the atoms with their new arrangement needs more space..

[04:13] <VPardieu> then the volume get more improtant and as a result the specific gravity get down.

[04:13] <VPardieu> the mass of the inclusion remain the same.

[04:14] <cityfire> If you could measure wit would the stone size change?

[04:14] <cityfire> it

[04:14] <VPardieu> Well I guess that if you have a cut zircon...

[04:15] <VPardieu> somewhere it is getting bigger and bigger each day...

[04:15] <VPardieu> but it is not possible to see that in a human life...

LOL

[04:15] <Alain> Due to the metamict process?

[04:15] <VPardieu> yes...

[04:15] <Alain> Thanks

[04:16] <Frank> but by heating it to increase the the SG we might be able to measure shrinkage?

[04:16] <VPardieu> zircons are fun and very interesting inclusions...

[04:16] <Casimir> how does the metamict process in zircon affect the fire/dispersion?

[04:16] <Casimir> in zircon

[04:16] <VPardieu> are they can help to know how old is the stone using some mass spectroscopy.

[04:17] <VPardieu> No idea Casimir.

[04:17] <VPardieu> well as the RI gat lower...

[04:17] <Alain> I don't think it does Casimir

[04:17] <VPardieu> light will more easily penetrate the stone...

[04:18] <VPardieu> the critical angle will be slightly different also...

[04:18] <VPardieu> so some difference in cut and possibly in brilliance for 2 stones exactly cut the same might happen.

[04:19] <Alain> Vincent, why are in particular the rubies from Madagascar used for lead glass enhancement?

[04:19] <Mari> Are there other gemstones the condense and expand in this way?

[04:19] <Mari> and is it only uranium that causes this, or...?

[04:20] <VPardieu> Well Alain, Burners in Chanthaburi are using rubies from Andilamena because they have a good color...

[04:20] <VPardieu> and many fissures...

[04:20] <VPardieu> and few mineral inclusions.

[04:20] <Alain> Ingenious those guys

[04:20] <Casimir> are there some desireable inclusions in corundum, like beautiful garnet-inclusions in diamond, that increases the stones value?

[04:20] <VPardieu> and also they are very cheap as because of these fissures you cannot cut the stone as it is...

[04:21] <VPardieu> well to me crystals and needles are desireable inclusions...

[04:21] <VPardieu> because thanks to the inclusions you might get informations about your stone.

[04:22] <VPardieu> origin, treatments...

[04:22] <VPardieu> no inlcusions, well more headhake...

[04:22] <VPardieu> to me a good stone is a stone with no inclusions visible to the naked eye...

[04:22] <VPardieu> but with beautiful inclusions visible with a microscope...

[04:22] <VPardieu> for the people in the trade it is different...

[04:23] <Annie> absoluteley they are wonderful, I would rather buy some with inclusions,

[04:23] <VPardieu> to much influence from the diamond world to give some value to inclusions...

[04:23] <ux4> I understand that some heating methods will leave the fine rutile needles in sapphire intact. True? Your paper may have actually taught me of this possibility

[04:23] <Annie> I agree Vincent, but for trade, they want less or none to fetch more money

[04:24] <VPardieu> yes all the heating process under let say 1000 degrees...

[04:24] <VPardieu> yes annie

[04:24] <VPardieu> sorry I've to go for 5 minutes....

[04:24] <Alain> that's ok

[04:24] <Annie> thats ok Vincent

[04:24] <Alain> potty break everyone

[04:25] <ux4> coffee!

[04:25] <Casimir> tea :)

[04:25] <Annie> quick, while we have the chance

[04:25] Guest92 (~aussie@144.134.229.84) joined #go.

[04:25] <Catrix> Whew!

[04:25] <MoDo> chocolate

[04:25] <Alain> hi Guest92

[04:25] <Alain> oh that's aussie

[04:26] <Topaz> hi every one !

[04:26] <Alain> Mari, we haven't forgotten your questions

[04:26] <Frank> have you been to bed yet Alain?

[04:26] <Alain> hi Topaz

[04:26] <Annie> Hi Topaz

[04:26] <cityfire> aussie is already here

[04:26] <Alain> no Frank, you?

[04:26] <Guest92> Ye sorry I got dumped out

[04:26] Aussie (~Aussie@144.138.29.22) left irc: Ping Timeout

[04:26] <Frank> yes I've had three hours...might have been a mistake

[04:26] Nick change: Guest92 -> Aussie

[04:26] <VPardieu> ok I'm back

[04:27] <Alain> Vincent, Mari had a follow-up on the zircons

[04:27] <Alain> Are there other gemstones the condense and expand in this way?and is it only uranium that causes this, or...?

[04:27] <Mari> Just about what possibilities were out there

[04:28] <VPardieu> I guess that all the gemstone with are rich in zirconing will have the same problem...

[04:28] <Frank> Do you think the quality generally improves for corundum that has gone through a metamorphic period within it's host rock?

[04:28] <VPardieu> as uranium and zirconing have an affinity for each other...

[04:29] <VPardieu> painite could be affected possibly...

[04:29] <VPardieu> and somewhere I guess also that if the zircon is affected, the the sapphire just around the zircon could also be affected...

[04:29] <VPardieu> sound logical..

[04:30] <VPardieu> But the way zircon affect corundum is by breaking it into tiny pieces...

[04:30] <VPardieu> I guess thats why sapphires in Ilakaka are such tiny broken pieces...

[04:31] <VPardieu> possibly...

[04:31] <Barbra> What is the actual percentage of radioactive elements in zircon?

[04:31] <VPardieu> many zircons, many haloes, then fissures, then the stone with tumbling is broken into tiny pieces...

[04:31] <VPardieu> I had a chat about that in mada...

[04:32] <VPardieu> with frends around a good french style diner.

[04:32] <VPardieu> tiny...

[04:32] <VPardieu> less than 0.01% of uranium content I think...

[04:32] <VPardieu> but I'm not an expert in this field.

[04:33] <Annie> Vincent, Frank had a question : Do you think the quality generally improves for corundum that has gone through a metamorphic period within it's host rock?

[04:33] <VPardieu> anyway the important think is that its such a low content that in fact if it is dangerous for the sapphire over the geologic period of time...

[04:33] <VPardieu> for human its probably less dangerous to weir than to live in a granitic area...

[04:34] <VPardieu> or than to have a granite bathroom...

[04:34] <MoDo> uranium in zircon = 100-1000 ppm

[04:34] <Barbra> I understand that 90% of Madagascar could be gem bearing. What other gems are present?

[04:35] <VPardieu> Some basaltic stones are beautiful...

[04:35] <VPardieu> but for the blue sapphire...

[04:35] <VPardieu> blue color in basaltic stone is mostly coming from Iron-iron transitions.

[04:36] <VPardieu> in metamosphic its usually from Titanium iron transitions.

[04:36] <VPardieu> Intervalence charge transfer...

[04:36] <VPardieu> so as a result the color is slightly different.

[04:36] <VPardieu> the 2 process are producing blue...

[04:37] <VPardieu> but not exactly the same type of blue...

[04:37] <VPardieu> I guess that human eye usually has a tendence to prefer the ti-fe type...

[04:37] <Annie> yes, a good example would be the sri lankan vs australian ones

[04:37] <VPardieu> but in Andrebabe for example some stunning blue sapphire of basaltic origin can be found.

[04:38] <VPardieu> and they were reported to me as some of the best stones in mada...

[04:38] <Casimir> How much production do the Kashmir mines produce (of good quality)?

[04:38] <VPardieu> Madagascar top blue are coming from Tiramena, near Andranondambo in the south of the island...

[04:39] <VPardieu> or from Andrebabe, near Andilamena in the north east of the center.

[04:39] <VPardieu> Barbra: In madagascar you have besides ruby and sapphire:

[04:40] <VPardieu> emerald, spinel, zircon, chrysoberyl inlcuding alexandrite, garnet including color change and tsavorite...

[04:41] <Frank> In Mada...are they mining from gravel or from rock?

[04:41] <VPardieu> touamline including liddicoated

[04:41] <VPardieu> topaz, quartz, diamond, danburite, pezzotaite,...

[04:41] <Casimir> What is the most desireable multicolour tourmaline of Madagascar?

[04:41] <VPardieu> they are minig from what they can...

[04:41] <VPardieu> I mean for ruby and sapphire:

[04:42] <VPardieu> Ilakaka is alluvial...

[04:42] <Barbra> There is not much cutting taking place there? So one must be able to judge rough if they wish to go there to buy, right?

[04:42] <VPardieu> as Ambondromifehy in the north (sapphires)

[04:42] <Aussie> Have they vast resource left or is the easiest already mined

[04:42] <VPardieu> and most of vatomandry in the east (rubies)

[04:43] <VPardieu> Andranondambo in the south (blue sapphire) is a primary deposit very close geologically to the kashmir deposit

[04:44] <VPardieu> andilamena is also a primary as stones are found in pegmatites or decomposed mica schists.

[04:44] <VPardieu> but when you have primary you can most of the time found some alluvial stones in the rivers nearby...

[04:45] <VPardieu> emerald are primary... as usual as emerald does not resist to water tumbling...

[04:46] <VPardieu> Pegmatite deposits are mostly primary like tourmaline near Ansirabe, and pezzotaite...

[04:46] <VPardieu> Casimir, I cannot really answer you question as I'm not really a tourmaline expert...

[04:47] <VPardieu> Now Madagascar ttourmalines are rare as most of the miners turned to sapphire mining which is more profitable.

[04:47] <VPardieu> I did not check or ask any tourmaline during the 60 days I had there... too busy with rubies and sapphires...

[04:47] <VPardieu> sorry..

[04:48] <VPardieu> Hum.. about cutting there is cutting there...

[04:48] <VPardieu> in Ansirabe the traditional tourmaline mining area there are quite a buch of cutters...

[04:48] <VPardieu> but for sapphire the time cutters were the buyers is gone...

[04:49] <VPardieu> it was in the 60' or 70'...

[04:49] <Frank> Again with respect to Mada...are there problems with officialdom? (ridiculous currency exchange rates, customs procedures, export licences etc)

[04:49] <VPardieu> at this time only a good cutter could see the value of a given rough...

[04:49] <VPardieu> then there were many german, israely, indians...

[04:50] <VPardieu> now you see there only Thais and Sri Lankan...

[04:50] <VPardieu> The reson is heat treatment...

[04:50] <Casimir> How well are the deposits (the ones that are not worked out) in Madagascar known, what I mean is: are the recourses of the land known?

[04:50] <VPardieu> as the stones are heated before cutting, only a good burner is able to understand the potential value of some rough...

[04:50] <VPardieu> so burners are the buyers now.,.

[04:51] <VPardieu> a cutter going there will have hell to get good stones...

[04:51] <Casimir> how do You become a good burner?

[04:51] <VPardieu> as the burners are much more powerful buyers, they can buy all, not only the best...

[04:52] <VPardieu> and as a result they can buy in volume...

[04:52] <Barbra> Does the corundum in Madagascar always NEED heat treatment?

[04:52] <VPardieu> well in mada a new mining code is coming...

[04:52] <Aussie> My earlier question is there still a market for basic heated or full natural or has the new burning methods beaten us

[04:52] <VPardieu> things are not that bad there... quite easy to do business...

[04:53] <VPardieu> I had no problem to export my stones legally.

[04:53] <VPardieu> some people might have problems, but not worse than what I saw in other countries..

[04:53] <Casimir> Do they have to be cut?

[04:53] <Casimir> To be exported?

[04:54] <Frank> thanks

[04:54] <VPardieu> About madagasacar most of the sapphire deposits were known for many years...

[04:54] <Casimir> How good are the potential known?

[04:54] <VPardieu> the french geologist in the 1920' and 1960' have given info about all of them except ilakaka...

[04:55] <VPardieu> there are many other sapphire deposits besides the famous ones...

[04:55] <VPardieu> just there no gem quality stone are known to have been found there...

[04:55] <VPardieu> but madagascar Exploration is just starting...

[04:55] <VPardieu> imagine Ilakaka is less than 7 years old...

[04:55] <VPardieu> its 300km by 300km...

[04:56] <Alain> that's the size of a small country

[04:56] <Casimir> are there a lot of criminals in Ilakaka?

[04:56] <VPardieu> Mogok (burma) and Ratnapura (Sri lanka) are mined for may be 1500 years...

[04:56] <VPardieu> and they are globally 50km by 50 km...

[04:57] <VPardieu> so just imagine the potential...

[04:57] <Barbra> geologically wondrous!

[04:57] <VPardieu> you have also to understand that in ilakaka the people know very few about mining compared to Burma and Sri lanka...

[04:57] <VPardieu> so they are missing a lot of stones...

[04:58] <Casimir> missing in what sence?

[04:58] <VPardieu> casimir, you become a good burner by burning a lot...

[04:59] <VPardieu> In madagascar (as elsewhere...) all rubies and sapphire does not need to be heated...

[04:59] <VPardieu> Barbra...

[04:59] <VPardieu> As an example Vatomandry rubies does not react very well...

[04:59] <VPardieu> Andilamena rubies are giving better result after heat treatment...

[05:00] <VPardieu> what is the result?

[05:00] <VPardieu> well there are 15000 miners in andilamena and 50 miners in vatomandry...

[05:00] <VPardieu> the fact is that from a given deposit...

[05:00] <VPardieu> lets say 0.5% of the stones are nice enough not to be heated...

[05:01] <VPardieu> by heat treatment you can turn 20% more into something than can be use...

[05:01] <VPardieu> I start from a primary deposit...

[05:01] <VPardieu> in alluvial deposits the percentage are usually higher...

[05:01] <VPardieu> so for the same amount of work...

[05:02] <VPardieu> a miner will have to live with 1% of what he get or wuth 20%...

[05:02] <VPardieu> where do you think the miner will go working if he has the choice?

[05:02] <VPardieu> simple to the place where the stones can be heated...

[05:02] <VPardieu> as he want to get some income more than once a year...

[05:03] <Alain> This is some great info Vincent

[05:03] <ux4> ''

[05:03] <Barbra> Is most of the mining in Madagascar done by citizens, or have the interests been taken over by international interests?

[05:03] <VPardieu> so globally: no heat treatment... no miners... so ... no stones..

[05:04] <VPardieu> In fact this is to my opinion thanks to heat treatment that we can enjoy these days all these unheated fine stones...

[05:04] <VPardieu> because heat treatment has turned mining to profitable.

[05:04] <VPardieu> so there are many miners...

[05:04] <Mari> That makes sense

[05:04] <VPardieu> many stones produced...

[05:05] <VPardieu> and the dealers then separate the stone to be heated with the stones that does not need to be heated...

[05:05] <VPardieu> this is why you can get many unheated nice gems from Thailand...

[05:05] <Annie> yes of course, that is understandable

[05:05] <Frank> do the stones requiring heated look like the geuda stones?

[05:05] <ux4> interesting economics - to simple a concept not to be so.

[05:06] <Aussie> Any premium for basic heat over BE bulk diffused?

[05:06] <VPardieu> I'm reading the questions I did not answered yet...

[05:06] <Casimir> is it possible to heat, and if that doesnt work then diffuse?

[05:07] <Frank> you seem to be keeping up admirably

[05:07] <ux4> ''

[05:07] <Alain> You are doing great

[05:07] <VPardieu> In areas where there is no heat treatment...

[05:07] <VPardieu> mining is often performed by farmers who dont have anything to do...

[05:07] <VPardieu> they have low knowledge...

[05:08] <VPardieu> dig somewhere to try... and if they get they are happy.. if they dont... well whatever they had nothing to do...

[05:08] <Alain> lol

[05:08] <Frank> Did you see many synthetics on the market when you were there?

[05:08] <VPardieu> thats why in these areas mining is depending on the amount of work in agriculture...

[05:09] <VPardieu> but professional miners go where they can get a regular income...

[05:09] <VPardieu> so there are stone produced in areas where there are no treatment but its mainly stones produced seasonally by local people...

[05:10] <Casimir> what kind of people are spreading synthetic material in alluvial deposits?

[05:10] <VPardieu> Well regarding Aussie question....

[05:10] <Frank> we usually call them crooks Casmir

[05:10] <VPardieu> basic heat vs BE...

[05:11] <VPardieu> I had a chat 2 weeks ago with the burner who discovered the BE treatment...

[05:11] <VPardieu> I will disclose more about that in an article I prepair for the "Revue francaise de gemmologie AFG"

[05:12] <VPardieu> they ordered me two 10 pages articles about understanding heat treatment...

[05:12] <Alain> Will you also publish it on one of the websites?

[05:13] <VPardieu> the heate treatment to produce bright yellow to orange sapphires from nearly colorless stones is an expensive process...

[05:13] <VPardieu> one run with these high capacity gas furnaces at high temperature (meaning that the furnace component will have to be changed more often...)

[05:14] <VPardieu> was reported to me to cost around 1300USD

[05:14] <Alain> The crucible alone?

[05:14] <VPardieu> using a chrysoberyl atmosphere the cost is lower...
[05:14] <VPardieu> around 800USD
[05:15] <VPardieu> as the length of the heat treatment is lower.
[05:15] <Frank> how big is the furnace?...how many stones at a time?
[05:15] <VPardieu> as these yellow sapphire were cheap in the market
(they look too much like citrines which is so cheap...)
[05:16] <VPardieu> the burners were in a situation where the treatment was
not profitable...
[05:16] <VPardieu> so they were searching ways to lower the costs...
[05:16] <VPardieu> I speak at this time in 94...
[05:16] <VPardieu> they were working at this time with sri lankan gems...
[05:18] <Aussie> Critical info for Australian miners as many face
closure as we have no buyers at all for mine run with green cross, our
blue cross Reddestone creek seems okay.
[05:18] <VPardieu> the yellow sapphire treatment (under oxidising
conditions) was invented in 1980...
[05:19] <VPardieu> so this burner understood in 95 that mixing sapphire
with chrysoberyl was the key to lower the cost and get better color.
[05:19] <VPardieu> yellow sapphire and yellow chrysoberyl are found
together in sri lanka and many parcels were mixed...
[05:19] <VPardieu> then he began the process...
[05:20] <VPardieu> which was discovered later in 2000 when he began to do
the same with the stones from ilakaka...
[05:20] <VPardieu> which was discovered in 1998...
[05:20] <VPardieu> because then the pink turned padparadsha like,....
[05:21] <VPardieu> but the yellow were already heated with chrysoberyl
atmosphere for around 5 years without anybody to question anything.
[05:22] <Casimir> is the market for diffused stones completely aware of
the treatment, or is buyer getting it without knowing about the "bad-
treatment"?
[05:22] Guest56 (~Cattrix@172.185.179.124) joined #go.
[05:22] <VPardieu> there is no good or bad treatment to my opinion...
[05:22] <VPardieu> as there is no good or bad car...
[05:22] <Guest56> sorry I got disconnected.
[05:23] <Barbra> I would love to go on a field trip to Madagascar. Have
you thought of organizing one for rugged gem enthusiasts?
[05:23] <Casimir> the heat is accepted, but the diffusion is not really..
:)
[05:23] <VPardieu> for car you can get a second hand toyota or a
ferrari...
[05:23] <VPardieu> still a car...
[05:23] Cattrix (~Cattrix@172.195.204.208) left irc: Ping Timeout
[05:23] <VPardieu> but not the same price, not the same product...
[05:23] Nick change: Guest56 -> Cattrix
[05:23] <MoDo> Let me know when you're going, Barbra!
[05:23] <VPardieu> as long as people don't sell second hand toyota for
ferraris...
[05:23] <VPardieu> there is no bad car.
[05:24] <VPardieu> You know this is just a question of marketing...
[05:24] <Aussie> Good point!
[05:24] <cityfire> bummer I thought you might have a in on ferraris
[05:24] <Mari> Pinto!
[05:24] <VPardieu> as an example...
[05:24] <Casimir> as long as the toyota don't become a ferrari..
[05:24] <VPardieu> My family is coming from the wine business...
[05:24] <VPardieu> near bordeaux in france...
[05:25] <VPardieu> Bergerac saint emilion area
[05:25] <Alain> saint emilion is nice

[05:25] <VPardieu> Bordeaux, Pomerol, saint emilion are great wines...
[05:25] <VPardieu> no treatment...
[05:26] <Frank> The burners do nothing about declaring their treatments though, until some one else figures it out...it doesn't do the trust the industry has for them any good...though I guess good for profit till it's discovered
[05:26] <VPardieu> now people near Reims have some low quality stuff... cannot make a good wine as there is not enough sun...
[05:26] <VPardieu> so what they do?
[05:26] <VPardieu> they treat their wine...
[05:26] <VPardieu> add sugar.,...
[05:26] <VPardieu> brand it ...
[05:27] <VPardieu> and you have chanpagne...
[05:27] <VPardieu> Champagne....
[05:27] <Alain> method tradicionelle I'm sure
[05:27] <VPardieu> Now other people in Charante have alos some bad wine...
[05:27] <VPardieu> and near Auch the same...
[05:27] <VPardieu> what are they doing?
[05:27] <VPardieu> heat treatment...
[05:27] <VPardieu> what they got?
[05:27] <ux4> heat treating it?
[05:27] <ux4> lol
[05:28] <VPardieu> Cognac and Armagnac....
[05:28] <Alain> vinager?
[05:28] <Alain> heh
[05:28] <VPardieu> well...
[05:28] <Aussie> Problem is lack of disclosure
[05:28] <VPardieu> there is no bad product.,...
[05:28] <Frank> ah nothing like distilling ...:)
[05:28] <VPardieu> there is bad promotion.
[05:28] <Annie> so disclosure is important and they know they are buying a BE / treated and not a ferari or fancy champagne
[05:28] <VPardieu> Beryllium heated stones are beautiful...
[05:28] <Aussie> Hurts us ones trying to be fully honest
[05:28] <VPardieu> Look at a songea orange red sapphire...
[05:29] <Casimir> is there some glass filling beeing done near the mines, ex.Madagascar?
[05:29] <Topaz> I agree with Vincent Be treated stone is so beautiful, why people don't like them ?
[05:29] <VPardieu> the stones are very inclusion free...
[05:29] <Aussie> Yes but shouldnt be valued as highly as natural
[05:29] <Mari> I don't know... like Vincent said earlier, these heat treatments create more stability, and hence more natural stones can be mined
[05:29] <Mari> Right?
[05:29] <VPardieu> before treatment they look ugly as reims wine....
[05:30] <Mari> So why not? No loss there, the way I see it
[05:30] <VPardieu> after treatment they are beautiful as Champagne is great...
[05:30] <Aussie> drags our natural price down
[05:30] <VPardieu> But Thais if they are good alchemist are bad in marketing and promotion...
[05:30] <Mari> ho hum, all the better for me
[05:30] <VPardieu> I'm sure that if Swarovski has invented the process, thing would have been different...
[05:30] <Casimir> the treated ones are missing their mystial appearance

[05:30] <ux4> As vincent pointed out, there is no prob w/ treated stones as long as thye are marketed as such. Whe fraud is pervasive in the trade of a stone (orange sapphire)...

[05:31] <VPardieu> These guys are excellent marketing...

[05:31] <ux4> the markwet is ruined...

[05:31] <Alain> good point Vincent

[05:31] <ux4> everyones rep[utation suffers

[05:31] <VPardieu> Thats the point...

[05:31] <VPardieu> disclosure is the key...

[05:31] <Frank> but they only disclose after being caught...and many people have overpaid (Thinking they were buying Bergerac)...

[05:31] <VPardieu> no bad treatment, no bad stones as long as they are sold for what they are...

[05:31] <Aussie> they buy cheap rough that looks like rubbish pay nothing and only the burner wins

[05:32] <Alain> Vincent "C'est un plan Umba!" .. should we translate that as "anything can go wrong"?

[05:32] <Casimir> how do You disclose about a treatment to a consumer that do not understand anything about gems?

[05:32] <VPardieu> Nobody hit the spinel dealers... but sometimes some people will try to sell a spinel for a ruby...

[05:32] <VPardieu> does not means that spinel is bad...

[05:32] <ux4> just compare pirce!! your suatome will catch on quick!

[05:32] <VPardieu> Well I can try to sell spinel for ruby prices...

[05:33] <VPardieu> lol

[05:33] <Annie> what if you get caught ? lol

[05:33] <VPardieu> somepeople in Burma tried to do that to me when I was student there...

[05:33] <VPardieu> well then you become a crook...

[05:34] <VPardieu> To come back to the Beryllium issue...

[05:34] <VPardieu> I think that the treatment will stay for long.

[05:34] <VPardieu> Because one day a big company will decide to market them correctly.

[05:35] <VPardieu> then prices will go up again for these stones.

[05:35] <Annie> Vinent, do you think that Be treatment will eventually be an accepted practice

[05:35] <VPardieu> at least for the best ones I mean.

[05:35] <VPardieu> well probably.

[05:35] <VPardieu> beacause it is nearly impossible to detect...

[05:36] <VPardieu> especially in yellow

[05:36] <Annie> i am sure some big fellow with good marketing skills will be out there someday...

[05:36] <VPardieu> the test cost more than the stone...

[05:36] <VPardieu> and many small sizes are heated with beryllium...

[05:36] <VPardieu> and imagine... I think that the first stone with Beryllium arrived in the market in 93 or 94...

[05:37] <VPardieu> not in 2000...

[05:37] <Alain> That is indeed worrying

[05:37] <VPardieu> so for some companies who trade them without knowing about them...

[05:37] <Annie> yes and no one knew then !!

[05:37] <VPardieu> that could become an issue...

[05:37] <Aussie> to late to worry perhaps

[05:37] <Casimir> reputation is not for sale

[05:37] Crystal (~Crystal@216.98.174.32) left irc: Ping Timeout

[05:38] <Barbra> Vincent, how did a winemaker's son end up in Thailand?

[05:38] <VPardieu> Now somewhere to my idea the gem business has now the same problem as the wine or the cheese business in France 100 years ago...

[05:38] <VPardieu> many product from different origins...

[05:38] Crystal (~Crystal@216.98.174.220) joined #go.

[05:38] <VPardieu> people begin to use treatments...

[05:39] <VPardieu> the public might loose confidence...

[05:39] <VPardieu> so the trade should think about branding...

[05:39] <ux4> i agree

[05:39] <VPardieu> some kind of what we call in France A.O.C. for wines...

[05:40] <VPardieu> With the correct marketing you can sell any product for what it is...

[05:40] <Aussie> Difficult without been able to detect treatment

[05:40] <VPardieu> It will be profitable for the miners who will be able to communicate better about their product,

[05:40] <Alain> Is the burner that invented the BE process willing to work on that with the trade?

[05:41] <VPardieu> and to everybody...

[05:41] <VPardieu> possibly...

[05:41] <Casimir> as to Barbras question, how do Your travel affect Your personal life?

[05:41] <VPardieu> but the problem is that this person does not speak english, went to school only for 4 years...

[05:41] <VPardieu> does not know much about marketing...

[05:42] <VPardieu> and is thinking now that foreign gemologists are his ennemies.

[05:42] <Aussie> he would be very wealthy

[05:42] <VPardieu> because his business was hit very badly.

[05:43] <VPardieu> Well Aussie... we can detect treatment like beryllium...

[05:43] <VPardieu> it just cost a lot per stone...

[05:43] <Mari> what is used for detection?

[05:43] <VPardieu> all the bottle of french wine are not checked...

[05:43] <Aussie> thats our problem

[05:43] <Mari> What do you look for?

[05:43] <VPardieu> but there are some random controls...

[05:43] <VPardieu> that could be done...

[05:44] <VPardieu> but may be France is more organised than thailand...

[05:44] <VPardieu> This would ask from the government and the trade a strong commitment and many efforts

[05:44] <VPardieu> I'm not sure that this can be done rapidly or easily...

[05:45] <VPardieu> but I'm speaking about to people around...

[05:45] <VPardieu> laser inscriptions could be helpful...

[05:45] <VPardieu> I think that technology is ready for that...

[05:45] <VPardieu> but the situation of many dealers and miners is very difficult....

[05:45] <VPardieu> think about...

[05:46] <VPardieu> 97 the asian crisis...

[05:46] <VPardieu> the Thai baht went down 50%...

[05:46] Sara (~Sara@172.170.240.235) left irc: Sara

[05:46] <VPardieu> so that was the starting point of Australia problem as a supplier...

[05:46] <Aussie> you are correct

[05:47] <VPardieu> suddently the Australian rought became 100% more expensive....

[05:47] <VPardieu> In 98 Ilakaka was discovered...

[05:47] <VPardieu> a huge area...
[05:47] <VPardieu> few people with knowledge about stone...
[05:47] <VPardieu> that was the rush...
[05:47] <Aussie> China?
[05:48] <VPardieu> because of the asian crisis many gem companies went bankrupt...
[05:48] <VPardieu> the others are trying to survive...
[05:48] <VPardieu> In japan the market is very bad...
[05:48] <VPardieu> people are searching ways to survive...
[05:48] <VPardieu> lower the costs...
[05:48] <VPardieu> buy cheaper...
[05:49] <VPardieu> lower the cost of heat treatment...
[05:49] <VPardieu> many people had huges debts...
[05:49] <VPardieu> they were searching desperately for cash...
[05:49] <VPardieu> so they went on this treatment... naturally
[05:49] <VPardieu> then there was 9/11...
[05:50] <VPardieu> the SARS...
[05:50] Guest (~Guest@202.156.242.161) joined #go.
[05:50] <VPardieu> the war in Irak...
[05:50] <Alain> Somehow you can't really blame them
[05:50] <VPardieu> The petrol prices get crasy...
[05:50] Nick change: Guest -> hehheh
[05:50] <VPardieu> the brid flue...
[05:51] <VPardieu> and for the Thai burners...
[05:51] <VPardieu> and the sapphire dealer...
[05:51] <VPardieu> this story about beryllium...
[05:51] <VPardieu> that hit badly the sapphire market...
[05:51] <VPardieu> time are very hard...
[05:51] <Aussie> You are correct, we have analized this before, not good for anybody
[05:52] <VPardieu> people are affraid to buy...
[05:52] <VPardieu> so people are affraid to invest in mining...
[05:52] <Alain> Vincent, how are you holding up .. you must have sore fingers from typing
[05:52] <Casimir> nobody is affraid to sell
[05:52] <VPardieu> miners are in a difficult situation everywhere I went...
[05:53] <VPardieu> in Tanzania, Kenya, Madagascar, Vietnam, Burma, Sri Lanka, Cambodia, Thailand...
[05:53] <VPardieu> and I understand very well that in Australia it is the same...
[05:53] <Casimir> thats a shame..
[05:54] <VPardieu> Sri lankan are buying in Mada or Tanzania...
[05:54] <VPardieu> to sell as ceylon...
[05:54] <VPardieu> in sri lanka
[05:54] <VPardieu> They invest in heat treatment and are doing good...
[05:54] Frank_ (~Frank@172.186.22.89) joined #go.
[05:54] <VPardieu> now they become stronger than the thais....
[05:54] <VPardieu> I say that because I see now more sri lankan in Ilakaka than Thais...
[05:55] <VPardieu> power is shifting...
[05:55] <VPardieu> but many buyers believe than in Sri lanka the stones are less treated than in Thailand...
[05:55] <VPardieu> so they stop buying in Bangkok and go to Columbo....
[05:55] <VPardieu> but in fact...
[05:56] <VPardieu> Its a wrong idea...
[05:56] <cityfire> what difference would it make if the stones were less treated?

[05:56] <VPardieu> Thanks to mada and tanzania...
[05:56] <hehheh> so where is the best place to go buy?
[05:56] <VPardieu> The sri lankan have a strong supply of Ceylon sapphires..
[05:56] <Aussie> Australia
[05:56] <ux4> lol
[05:57] <ux4> u get my vote aussie
[05:57] <cityfire> mine to
[05:57] <VPardieu> Well Australia is easy to separate from ceylon...
[05:57] <Aussie> thanks I was getting depressed
[05:57] <Annie> there we go, we have a buyer already :-)
[05:57] <VPardieu> use a UV Vis...
[05:57] Frank (~Frank@172.173.79.30) left irc: Ping Timeout
[05:57] <VPardieu> But not easy to separate from pailin.
[05:57] <VPardieu> or Chanthaburi.
[05:57] <hehheh> what about australian from kanchana?
[05:57] <Mari> If you completely cut off buying in problematic areas than their attempts would become more desperate though, wouldn't they?
[05:58] <VPardieu> nearly impossible...
[05:58] <Mari> Wouldn't that create a downward spiral?
[05:58] <VPardieu> What is a problematic area Mari?
[05:58] <cityfire> Voincent when you say ceylon are you talking about coming from a location?
[05:58] <VPardieu> Cityfire...
[05:59] <VPardieu> some stoens are naturally beautiful, same some women...
[05:59] <Mari> You win some, you lose some.... but what is to progress if you cut off buying altogether in areas that need more buyers?
[05:59] <VPardieu> other need some make up... a little bit...
[05:59] <VPardieu> some other plastic surgery....
[05:59] <VPardieu> some other well there is just nothing to do...
[05:59] <Alain> lol
[05:59] <VPardieu> whatever beauty can be appreciated differently...
[06:00] <hehheh> where do they sell gems in mada?
[06:00] <Mari> I don't get capitalism or marketing ... but if there is a gap there, then it wouldn't exactly be in the industries best interest to make that gap larger
[06:00] <VPardieu> Heat treatment is performed to try to make a stone as beautiful as possible...
[06:00] Mari (~Mari@172.145.184.205) left irc: Ping Timeout
[06:00] <Frank_> When are you going to explore China?
[06:00] <VPardieu> as desirable as possible...
[06:01] <VPardieu> if you dont heat to the best, the stone will be less attractive that it could be...
[06:01] <hehheh> vincent, what is the effect of heat treatment of chanthaburi sapphires?
[06:02] <hehheh> without burning they look a horrible yellow greenish inky blue
[06:02] <Annie> so, plastic surgery gone wrong :(
[06:02] <VPardieu> Mari I dont really understand what do you mean? Which areas do you want to cut?
[06:02] <hehheh> mari timed out
[06:03] <VPardieu> ok
[06:03] <Casimir> Could the colour change of Alexandrite be affected by the lightningconditions of humans?
[06:03] <Frank_> Let us know when you've had enough Vincent...It must be lunch time almost where you are
[06:04] <VPardieu> Well if you heat chanthaburi stones...

[06:04] <VPardieu> it depends...

[06:04] <VPardieu> some stones are geuda type...

[06:04] <cityfire> Vincent do the ends always jutify the means?EG plastic breasts ect?

[06:04] <Casimir> If the lightning wouldnt be so much in the red, the stones would look green all the time?

[06:04] <VPardieu> some other are green and can be turned into yellow with chrysoberyl or beryllium atmosphere..

[06:05] <hehheh> does heat treatment usually result in improvement of appearance?

[06:05] <VPardieu> well cityfire... its the customer who decide... or the husband...

[06:05] <hehheh> Or there is equal chance of the whole kg of rough becoming black?

[06:05] <cityfire> Or in the extreme what about plastic sugery to change a man into a women?

[06:06] <VPardieu> somewhere the stone is still of natural origin... same champagne...

[06:06] <VPardieu> or Cognac...

[06:06] <VPardieu> Its a commercial quality product... LOL

[06:06] <hehheh> so for heat treatment you just bring the rough to the burners and tell them to burn it?

[06:06] <hehheh> they'll know what to do?

[06:07] Guest (~Guest@172.145.184.205) joined #go.

[06:07] <Aussie> I dont agree to change someting so drastically you cant use the word natural

[06:07] <VPardieu> depend of the burners... but in Chanthaburi, sure they know what to do with...

[06:07] <hehheh> will you be at the bangkok gem fair this march?

[06:07] <VPardieu> well depend of your definition of natural...

[06:07] <VPardieu> is it natural versus synthetic?

[06:07] <hehheh> maybe you can take me around

[06:08] <VPardieu> or averything which is just cut and polished?

[06:08] <VPardieu> I personally prefer the natural versus synthetic stuff.

[06:08] <Aussie> Natural is missused if its altered drastically with chemical

[06:09] <VPardieu> there are natural heated or treated and natural untreated.

[06:09] <VPardieu> The proble is about detection:

[06:09] <VPardieu> I explain my point...

[06:09] <Frank_> Gemmologically doesn't natural mean that it came out of the ground and wasn't made in a lab

[06:09] <Aussie> but they are all mixed up in the retail market

[06:09] <VPardieu> I take a sapphire I put it in my UV box under short wave...

[06:10] <VPardieu> a light yellow sapphire from sri lanka...

[06:10] <VPardieu> After 10 minutes it has become bright yellow...

[06:10] <VPardieu> so is it natural or not?

[06:11] <Alain> Of course it is

[06:11] <Aussie> Yes I guess it is

[06:11] <hehheh> does heated and unheated stones exhibit that property?

[06:11] <VPardieu> now if I let the stone for 2 months under the sun or 20 minutes under fiberoptic illumination...

[06:11] <VPardieu> it turns back to light yellow...

[06:11] <Aussie> add chemical then tell the costumer

[06:11] <VPardieu> so is it natural or not?

[06:12] <Alain> Yes

[06:12] <Topaz> yes it is natural treated stone
[06:12] <hehheh> only sri lankan?
[06:12] <VPardieu> Well there are many different treatments...
[06:12] <VPardieu> and the way they are separated is not that logic...
[06:13] <VPardieu> if you heat a stone you will facilitate the exchanges between the stone and the atmosphere...
[06:13] <VPardieu> some atoms will penetrate the stone, some atoms will leave...
[06:13] <VPardieu> we call the penetration in science a diffusion process...
[06:14] <VPardieu> now there is diffusion of elements that are naturally present in a gem...
[06:14] <VPardieu> like oxygen for corundum...
[06:14] <VPardieu> but in the case of the yellow sapphire heat treatment (traditional) I mean invented in 1980...
[06:14] <VPardieu> it is diffusion of hydrogen...
[06:15] <VPardieu> which is not a natural element present in sapphire...
[06:15] <VPardieu> so as it was discovered after...
[06:15] <VPardieu> hydrogen is Ok but beryllium is not...
[06:15] <VPardieu> I think that there is heat treatment with additives...
[06:16] <VPardieu> and heat treatment without additives...
[06:16] <Aussie> yes
[06:16] <VPardieu> there is heat treatment at high temperatures...
[06:16] <VPardieu> meaning over the temperatures a natural gem can be submitted while in the earth...
[06:17] <VPardieu> and low temperature treatment that does not change really the visual aspect of inclusions...
[06:17] <VPardieu> I prefer this type of separations...
[06:17] <VPardieu> but well...
[06:17] <Aussie> Yes I agree
[06:17] <hehheh> what does low temperature treatment do?
[06:17] <VPardieu> The trade ask for other stuff...
[06:18] <VPardieu> low temperature can make a stone turn more transparent...
[06:18] <VPardieu> or less purple...
[06:18] <Aussie> money driven for short gain
[06:18] <VPardieu> it is typical for mong hsu rubies...
[06:18] <Annie> or lighten its colour
[06:18] <hehheh> how low is low temp?
[06:18] <hehheh> 1000?
[06:18] <Aussie> 1400
[06:18] <hehheh> still hotter than my stove
[06:18] <VPardieu> you know 5% improvement when a stone is \$10000 per carat... it begins to matters
[06:19] <VPardieu> well some people heat mong hsu stones a 280 degrees...
[06:19] <cityfire> Aussie doesn't it get that hot in the summer where you are?
[06:19] <VPardieu> or 250...
[06:19] <VPardieu> for a long period of time...
[06:19] <hehheh> the blue core goes away at that temp?
[06:19] <VPardieu> but usually it will be may be 500 or 700... I dont really know...
[06:20] <VPardieu> degre Centigrades...
[06:20] <VPardieu> sorry I'm French...
[06:20] <Aussie> secret mens business
[06:20] <Alain> You are doing great
[06:20] <Alain> I think this is one of the best chats we did sofar
Vincent

[06:20] <hehheh> I mean does the blue core in mong hsu rubies go away from the heating at 250-700 degrees?
[06:20] <Aussie> lots of differnt ways
[06:20] <Frank_> yes me too
[06:21] <Barbra> I agree!!!!
[06:21] <Casimir> Is there also heat treatments that are so light that they are hard to detect?
[06:21] <ux4> ''
[06:21] <Cattrix> :)
[06:21] <VPardieu> the fact is that with a FTIR we can detect heat treatment in Mong Hsu rubies at around 300C...
[06:21] <Aussie> Thanks heap Vincent
[06:21] <Annie> This is truly an outstanding chat we have ever had
[06:21] <VPardieu> so some dealers are trying to play with the line...
[06:21] <hehheh> i guess i am terribly late today
[06:21] <hehheh> hahaha
[06:22] <Annie> you can read about it Heheh. it's been great
[06:22] <hehheh> I was at bangkok one week ago, I didn't see you at AIGS
[06:22] <VPardieu> Sure casimir...
[06:22] <VPardieu> Well Hehheh, you have to come to visit me at the AIGS lab....
[06:22] <Barbra> sorry, what is FTIR?
[06:23] <VPardieu> and ask for me to the girls at the take in...
[06:23] <hehheh> I went in. I saw only two ladies sitting
[06:23] <hehheh> So I left
[06:23] <VPardieu> too bad...
[06:23] <hehheh> I didn't have any stones to test, so I guess I shouldn't disturb you
[06:23] <hehheh> hahaha
[06:24] <VPardieu> You know everyday I've lunch...
[06:24] <hehheh> Go ahead then
[06:24] <hehheh> :)
[06:24] <Alain> Yes Vincent, we should let you have your lunch
[06:24] <cityfire> Vincent do people who are paying 10000 per carat want the stones to be treated so they look better?
[06:24] <ux4> FTIR = forier transform infra red spectroscopy
[06:24] <VPardieu> and no problem if any of you come at AIGS lab around 11am to go to have some food with you...
[06:25] <Barbra> thanks, ux4
[06:25] <hehheh> 11am bangkok time?
[06:25] <ux4> YW
[06:25] <VPardieu> now its 12.30 in BKK
[06:25] <VPardieu> am...
[06:25] <hehheh> Singapore is one hour ahead
[06:25] <VPardieu> its Ok
[06:25] <Alain> Vincent, shall we let you go .. you have been chatting with us for almost 3 hours
[06:26] <VPardieu> so to come back to low temperature heat treatment...
[06:26] <VPardieu> In Mong Hsu ruby you have usually a microscopic inlcusion: diaspore...
[06:26] <VPardieu> an aluminium hydroxyde...
[06:26] <Guest> You're just tired because you stayed up all night
[06:26] <VPardieu> under FTIR (Infrared spectroscopy)
[06:26] <hehheh> Doos, go get a cup of coffee
[06:27] <Alain> I'm fine
[06:27] <hehheh> haha
[06:27] <Annie> he hasn't slept yet
[06:27] Nick change: Guest -> Mari

[06:31] <Frank_> No vinagrette?
[06:31] <VPardieu> So What was I saying?
[06:31] <Sara> spectrum
[06:31] <Sara> peaking
[06:31] <VPardieu> Ok...
[06:31] <Sara> 300 c
[06:32] <Alain> so heat treatment in this case can be detected, or the absence of heat treatment to be more correct...
[06:32] <hehheh> the detection of heat treatment with mong hsu rubies is possible
[06:32] <VPardieu> Ok...
[06:32] <Annie> absence of heat treatment
[06:32] <hehheh> ah a mistake
[06:32] <Annie> oh thanks Alain, you are fast
[06:32] <VPardieu> So now there are some rubies that does not have diaspore as a microscopic inclusion...
[06:32] <Annie> yes
[06:32] <VPardieu> lets say they have only rutile needles...
[06:33] <VPardieu> then in this case i dont really know a way to detect heat treatment under lets say 900 degrees...
[06:33] <Sara> c?
[06:33] <VPardieu> now if in an other ruby there is no rutile and no other inclusion than a zircon crystals, then...
[06:34] <VPardieu> it will not be possible to detect heat treatment until one of these crystals get altered by heat...
[06:34] <VPardieu> it begin to happen around 1450C
[06:34] <VPardieu> so at 300 degrees a mong hsu ruby is heated...
[06:34] <Alain> The exploding?
[06:35] <VPardieu> but not a madagascar ruby with only zircon...
[06:35] <hehheh> is it easy to differentiate mada, tanzanian, mong hsu, mogok and thai rubies?
[06:35] <ux4> the above is with FTIR - are there other methods to detect heat at lower temps?
[06:35] <VPardieu> even after heat treatment at 1300 a madagascar ruby might look as unheated and get a report as unheated...
[06:36] <Topaz> why 300°C is enough to improve clarity in Mong hsu rubies ?
[06:36] <hehheh> Don't let dealers hear that
[06:36] <VPardieu> gemology is same a police work...
[06:36] <VPardieu> you search for indications...
[06:36] <VPardieu> when there is not...
[06:36] <VPardieu> we say at AIGS: No indications of heat treatment...
[06:36] <VPardieu> which does not mean that the stone was unheated...
[06:36] <Frank_> innocent until proved guilty?
[06:37] <ux4> ther stone is innocent until proven guilty: the presumption of innocence?
[06:37] <hehheh> But dealers don't care; they sell it as unheated!
[06:37] <ux4> (great minds, frank)
[06:37] <Frank_> yes :)
[06:37] <VPardieu> it means that there is no indication that could make us thinking that it might have been heated...
[06:37] <hehheh> and for a 3ct and up size rubies it can cost 10000/ct difference
[06:38] <VPardieu> Yes innocent until proved guilty...
[06:38] <Frank_> would there be improvement in clarity or colour in the madagascar ruby at 1300C?
[06:38] <VPardieu> Well there are possibly other techniques, but then the cost might be very high...

[06:38] <Frank_> even though the treatment is undetectable
[06:38] <VPardieu> and there is already the problem of standart between labs...
[06:38] <ux4> ok
[06:39] <VPardieu> if all the lab dont have the same equipment, then they issue different reports, then people think that its funny...
[06:39] <VPardieu> but its not.
[06:40] <VPardieu> Franck... Possibly...
[06:40] <VPardieu> I dont really know yet as I did not stated really my experiments on the Madgascar rubies I've collected.
[06:41] <Frank_> but it may be worth doing on the hope of a small undetectable improvement
[06:41] <VPardieu> Regarding treatment we cannot know if the stone was better before or not....
[06:41] <VPardieu> I did some test with some Ilakaka blue sapphires...
[06:41] <VPardieu> You will be able to see these test soon...
[06:41] <Alain> Nice
[06:41] <VPardieu> I took many photo to hep people to compare and understand...
[06:42] <VPardieu> many stones were looking the same...
[06:42] <VPardieu> medium blue translucent...
[06:42] <VPardieu> some get darker, some did not changed, some even became nearly colorless...
[06:42] <VPardieu> they were all heated under the same condition together...
[06:43] <hehheh> what about be treatment?
[06:43] <Frank_> see the log hehheh
[06:43] <VPardieu> heat treatment improve the appearance of rubies and sapphires in some cases...
[06:43] <hehheh> I mean beryllium treat the Ilakaka stones
[06:43] <VPardieu> a good burner is one who make more stones turn better than bad...
[06:44] <VPardieu> no beryllium...
[06:44] <VPardieu> just heat without additives...
[06:45] <hehheh> burning is fun
[06:45] <VPardieu> with beryllium result are very unpredictable in many cases...
[06:45] <hehheh> gambling
[06:45] <Frank_> If your heating translucent stones then you can't really lose...but to heat a 10000dollars/ct would take a lot of nerve
[06:45] <VPardieu> color get more brigh, transparency improves,... but it is difficult to know which color you will get.
[06:45] <hehheh> black!
[06:46] <VPardieu> If you heat translucent stones you can loose a lot Franck...
[06:46] <VPardieu> first a burning run might cost you around USD1000
[06:46] <Sara> As far as you know it's completely random?
[06:47] <VPardieu> and you will put lets say USD20000 dollars of material to heat...
[06:47] <Frank_> thats a lot of translucent rough
[06:48] <hehheh> one furnace full
[06:48] <hehheh> haha
[06:48] <VPardieu> then you will may be able to get only USD5000 for these stones are you bought them USD20000
[06:48] <VPardieu> as you were thinking that these stones could be sold for USD30000
[06:49] <hehheh> is this a frequent occurrence with the rough dealers?

[06:49] <VPardieu> or if you are the miner you could have sold these stone in the market to people intending to burn them for USD20000
[06:49] <Sara> There's a stellar business move....
[06:49] <VPardieu> if you try to heat them yourself, you might lose money...
[06:49] <VPardieu> sometimes it's better to sell them for sure cash...
[06:49] <hehheh> so just buy the stones cut?
[06:50] <Barbra> Can the results be that unpredictable?
[06:50] <VPardieu> than to try to be better or more clever than people with 20 years more experience than you have.
[06:50] <hehheh> well I was thinking of buying 500g of chanthaburi sapphire rough to test burning...
[06:50] <hehheh> so maybe it's a bad idea
[06:51] <Frank_> No I like it hehheh...as long as you share the results with us :)
[06:51] <hehheh> if you share the costs with me, why not?)
[06:51] <VPardieu> That's the reason why the buyers in Madagascar or Tanzania are Thais or Sri Lankans...
[06:51] <ux4> I'll share any profits
[06:52] <hehheh> what about the losses?
[06:52] <hehheh> hahaha
[06:52] <hehheh> Sri Lankans are better burners than Thais?
[06:52] <Frank_> only they have the experience?
[06:52] <VPardieu> they know more which stone might turn good or bad...
[06:52] <VPardieu> so they know better which offer to make, ...
[06:52] <Sara> It's difficult for me to imagine that there's nothing, no indication that can aid a burner determine how heat will alter its color...
[06:52] <VPardieu> and they can survive...
[06:52] <Frank_> must have cost a lot to gain that experience
[06:53] <hehheh> I love this trade
[06:53] <hehheh> Gambling with stones
[06:53] <hehheh> and life savings
[06:53] <VPardieu> if you buy unattractive rough without to be a burner, or gem quality nice rough without to be a cutter...
[06:53] <Barbra> Are there any articles written on what criteria can be used for determining the outcome of treatment?
[06:53] <VPardieu> then you are playing a dangerous game...
[06:54] <hehheh> haha
[06:54] <VPardieu> There are some indications Sara...
[06:54] <ux4> I cannot buy rough... must be the same. Same, Sara. Something that only experience can teach. so, in this business, it is best to go with your strengths until you gain the experience.
[06:54] <VPardieu> these are the real secrets of the gem trade...
[06:55] <hehheh> and it's all with the burners?
[06:55] <VPardieu> If you know which are these indications, then in Ilakaka you will not buy the stones that were already heated...
[06:55] <VPardieu> and bring back there as heat treatment was not successful.
[06:55] <ux4> lol
[06:56] <VPardieu> this is the kind of rough people propose to newcomers...
[06:56] <VPardieu> let's see if you are a professional or a guy willing to look like a professional...
[06:56] <hehheh> Lesson 1. Don't buy rough when approached
[06:56] <hehheh> hahaha
[06:57] <VPardieu> Lesson 1: be honest with yourself...

[06:57] <VPardieu> a good gemologist knows how and when to say: I dont know...

[06:57] <VPardieu> So you know when you go to dangerous waters...

[06:58] <VPardieu> Dont deal with what you dont know....

[06:58] <VPardieu> then you will probably survive...

[06:58] <Aussie> tough game for amateurs

[06:58] <VPardieu> as you will not have the reputation to be somebody who does not know...

[06:58] <VPardieu> and you will not make too many costly mistakes...

[06:59] <VPardieu> some people with average knowledge want to play with fire as if they had more knowledge than they have...

[06:59] <VPardieu> then they loose a lot of money and their reputation.

[07:00] <VPardieu> it is why sometimes no knowledge is better than a little...

[07:00] <Frank_> but it's so hard to gain knowledge without playing the game

[07:00] <VPardieu> it is why sometimes a gemologist diploma is a dangerous thing...

[07:00] <VPardieu> as some gemologist just got enough knowledge to be able to loose everything...

[07:01] <VPardieu> Well to play the game you have to have enough to invest...

[07:01] <VPardieu> first you will loose a lot...

[07:01] <Sara> Would you say that your success is due more to being a people person who is interested in culture etc than to classroom study?

[07:01] <VPardieu> then if you still have money you will stop loosing...

[07:02] <VPardieu> then when you have lost enough... you will begin to make some money...

[07:02] <hehheh> well, if you don't dabble in rough, maybe you won't lose so much?

[07:02] <VPardieu> I'm still in the loosing money period...

[07:02] <VPardieu> LOL

[07:02] <Frank_> lol

[07:02] <Alain> heh

[07:02] <hehheh> ...

[07:03] <VPardieu> Well Sara...

[07:03] <hehheh> is buying rough fun?

[07:03] <VPardieu> thats a difficult question...

[07:03] <Sara> You began your gem interest in the field... and connected the dots so to say

[07:03] <Frank_> are we keeping you from lunch...I live in France and don't know many people who will wait till 1330 for lunch

[07:03] <VPardieu> is you read the auto bio I did...

[07:03] <Sara> It just seems like career came secondary

[07:03] <VPardieu> I guess that my succes is due first to the people I met...

[07:03] <VPardieu> then to hard work...

[07:04] <Aussie> you have good contacts

[07:04] <VPardieu> Then to the fact that when i dont know, well I dont know and I dont try to act a ssomebody who knows...

[07:04] <Barbra> Are you still teaching classes at AIGS?

[07:04] <VPardieu> trying to minimise the number of mistakes you do, trying to help people as much as you can...

[07:04] <hehheh> is Riniel with AIGS already?

[07:04] <VPardieu> No I'm currently not teaching at AIGS..

[07:05] <Barbra> too bad

[07:05] <Annie> Vincent, you are so correct with everything you taught us today

[07:05] <VPardieu> May be it will change as I was enjoying that.
[07:05] <Alain> We can tell
[07:05] <Barbra> Please make an announcement, if that changes
[07:06] <Aussie> We really appreciate you sharing your knowledge with us
[07:06] <Annie> and I thank you very much - you are a great teacher and my hero of living legends
[07:06] <VPardieu> Ok.. I really like to share knowledge...
[07:06] <ux4> yes, Mant thanks!
[07:06] <ux4> many!
[07:06] <VPardieu> I guess that it is coming from my former tour guide job...
[07:06] <Barbra> This has been a WONDERFUL evening
[07:06] <hehheh> thank you very much
[07:06] <Catrix> Yes Thank you So Much!
[07:07] <hehheh> how long does it take to learn thai??
[07:07] <Annie> thank you so much Vincent, once again
[07:07] <Crystal> Vincent, you were an awesome guest. Thanks for the best (and longest) chat yet!! :)
[07:07] <VPardieu> 10 years traveling and speaking to groups of 20 to 30 people... is not without consequences...
[07:07] <Sara> It was excellent... we must do this again
[07:07] <VPardieu> takes long time hehheh..
[07:07] <Topaz> yes he's no more teacher at AIGS, but he is really helpful when we have any problem or question Thanks a lot for everything
[07:07] <VPardieu> depends which level you want to reach...
[07:08] <VPardieu> No problem....
[07:08] <Annie> Will you join us again
[07:08] <VPardieu> It was a pleasure...
[07:08] <VPardieu> and it was fun!
[07:08] <hehheh> maybe see you in bangkok!
[07:08] <Alain> Vincent, this truely was a great chat you did with us
[07:08] <VPardieu> Well if you nwant to no problem...
[07:08] <hehheh> or Chanthaburi
[07:08] <VPardieu> But I'm usully traveling on week ends...
[07:08] <ux4> Good Night, morning, day, anbd evening, all, and again TY vincent!
[07:09] ux4 (~ux4@70.152.126.133) left irc: ux4
[07:09] <Catrix> Nite Ux4
[07:09] <hehheh> we travel to Chanthaburi together on weekend how's that?
[07:09] <Alain> I'm tapping my desk as an applaud for you
[07:09] <VPardieu> All the best to all of you...
[07:09] <Crystal> Thank you, Vincent. Hope to do this again soon. You were worth staying awake for.
[07:09] <VPardieu> and if you pass by bangkok...
[07:09] <Annie> applaud
[07:09] <VPardieu> do not hesitate to open the door of the lab and ask my staff to tell me to come...
[07:09] <Frank_> Thank you for a great chat Vincent. This was one of the best ever from all the guest chats to date. well worth the 0400hrs start time :)..Good luck with your lectures...wish I could attend them.
[07:09] <Barbra> Standing ovation!!!!
[07:10] <hehheh> 4 hours long lecture!
[07:10] <Annie> clap, clap
[07:10] <Aussie> yes !!!
[07:10] <Catrix> I have a Kiddo to put to be ,, But Thank you very much Vincent Clapping!!!!
[07:10] <hehheh> thank you so much vincent!
[07:10] <Alain> I'm sure Tucson will be a big hit Vincent

[07:10] <Barbra> Hope to see you soon, bye for now
[07:10] <Annie> you'll be great in Tucson, Vincent
[07:10] <Cattrix> Good Night all! :)
[07:10] <VPardieu> LoL
[07:10] Barbra (~Barbra@69.181.152.6) left irc: Barbra
[07:10] <VPardieu> Tucson will be fun...
[07:10] Cattrix (~Cattrix@172.185.179.124) left #go.
[07:10] <hehheh> may be can someone make a dvd recording of the lecture and send me?
[07:10] <VPardieu> I will be Dick Hughes guest,...
[07:10] <VPardieu> an honor...
[07:11] <VPardieu> he is a great guy!
[07:11] <Alain> Yes he is
[07:11] <Annie> yes, thats a good idea hehheh - a dvd of your lecture
[07:11] <Frank_> we liked him he was a good chat guest too
[07:11] <hehheh> anyone's going to Tucson?
[07:11] <VPardieu> My trip with him to Mada was a dream coming true!
[07:11] <hehheh> video tape Dick and Vincent!
[07:11] <Sara> Does tucson have a criteria?
[07:11] <VPardieu> he put me in business with his book...
[07:12] <Annie> yes, many are going and maybe modo can video tape it
[07:12] <VPardieu> I own him a lot.
[07:12] <hehheh> Ruby and Sapphire book 2?
[07:12] <Alain> It's great to see you are living your dream
[07:12] <hehheh> where's modo?
[07:12] <VPardieu> he is working on ruby and sapphire volume 2.. yes!
[07:12] <hehheh> AH
[07:12] <Annie> she left
[07:12] <hehheh> NICE
[07:12] <Frank_> she's gone a while back
[07:12] <hehheh> She left?
[07:12] <VPardieu> Ok...
[07:13] <hehheh> may be just suggest to her that taping the lecture is a good idea...
[07:13] <VPardieu> I will leave you know to go for lunch...
[07:13] <Frank_> bye all....g'night....thanks Vincent
[07:13] <Crystal> Applause! Applause!! G'night or g'day to all.
Zzzzzzzz
[07:13] <Alain> Bye Vincent and thank you very much
[07:13] <Annie> thanks.. have a good day
[07:13] <hehheh> ciao
[07:13] Crystal (~Crystal@216.98.174.220) left irc: Crystal
[07:13] <Sara> Yes, thank you
[07:13] Frank_ (~Frank@172.186.22.89) left #go.
[07:13] <hehheh> 8 am for Doos?
[07:13] <Alain> 7:15
[07:13] <Annie> Doos get to bed
[07:13] VPardieu (~dd805b3f@84.24.180.138) left irc: Quit: CGI:IRC (EOF)