
From: Lesley Groff <lesley.jee@gmail.com>
Sent: Wednesday, December 5, 2012 3:16 PM
To: Epstein Jeffrey
Subject: Fwd: Sundials, DNA, whatever
Attachments: Sundial I.jpg; Untitled attachment 00078.htm; Sundial III.jpg; Untitled attachment 00081.htm; Sundial legend.jpg; Untitled attachment 00084.htm; EOT Adjustment.jpg; Untitled attachment 00087.htm; Equation of Time.jpg; Untitled attachment 00090.htm; Analemma calculation.pdf; Untitled attachment 00093.htm; GCB and LSJ from Cocounts.jpg; Untitled attachment 00096.htm; LSJ sundial thru telescope.jpg; Untitled attachment 00099.htm

Begin forwarded message:

From: "McCarthy, Kevin" <Kevin.McCarthy@dovermotion.com>
Subject: Sundials, DNA, whatever
Date: December 5, 2012 2:25:33 AM EST
To: "lesley.jee@gmail.com" <lesley.jee@gmail.com>

Lesley: Would you be so kind as to forward my email to Mr. Epstein? Thanks.

Mr. Epstein: Hi! The other month, I was busy building a nice equatorial sundial on the lawn of our villa on St. John. Some photos are attached; I CNC engraved the brass time strip, which is magnetically preloaded against Teflon glide strips in a slot in the equatorial arc. To implement the Equation of Time correction, you just grab a knob near one end of the time strip, and slide it until a wire aligns with the date.

Little St. James is one of twenty-some islands visible from our villa on a clear day. I keep a 110 mm refractor and a 320 mm reflector there, and shortly before we left, I was startled to spot what is obviously a rather large sundial of ours (photo through the 110 mm attached). Very cool! Not quite as accurate as an equatorial dial, of course...

We have a mutual acquaintance in George Church. I have been collaborating with George for some years now on DNA sequencing; we first commercialized his technology with the Polonator, and have just completed a radical re-architecting of the system. The new "H" sequencer is still undergoing its initial shakedown, but we expect it to deliver a 30X whole human genome for well under \$500, and to sequence nearly 1e12 bases per day.

I'm curious as to the boxy building on the summit of LSJ. Might it house a telescope? I am in the final figuring stages on a 685 mm ellipsoidal Zerodur primary for a telescope back home. My background is in physics (MIT '75), although I blew off grad school to join my friends on a farm for seven years. I then ran a private tech company, selling it in 1999 to a public firm that was promptly acquired by the goofy-large conglomerate (Danaher) that I'm still a part of.

I keep a trimaran sailing kayak at Coconuts, and would love to sail over some time to check out Little St. James, and "rap" (in the 70's sense). Our next scheduled visits are January 2-24, April 6-21, and most of October. Other dates are flexible, although our villa is rented when we aren't there. If you are up for a get-together sometime, let me know.

All the best,

Kevin McCarthy
Chief Technology Officer
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