Gravic Astronomy Workshop Saturday, October 8, 2011

This is a general agenda for a small and informal workshop to be held at Gravic's offices in Malvern, PA USA.

Participants (as of 10/2/11)

Victor Berutti, Buddy Borders, Steve Conard, David Dunham, Russ Genet, Bruce Holenstein, Dylan Holenstein, Jeff Jarema, Rich Mitchell, Alex Thompson, and Sagar Venkateswaran,

Morning 9:30am

Welcome and Introductions (Bruce H)

Suggested Talks/Discussion Topics (We will have a projector and computer set up.)

- 1. Russ G.: Alt-Az Initiative goals, uses for medium-aperture scopes, progress on 1-m and 1.5-m scopes.
- 2. David D.: IOTA targets, multi-site deployments, weather predictions, various techniques.
- 3. Bruce H.: Gravic's plans to build a telescope array for high-time-resolution-astronomy (HTRA) and targets.
- 4. Steve C.: IOTA talk on East coast scopes.
- 5. Sagar V. Super caps, cold silvering solutions and applications for astronomy and solar power collection.

Lunch

Short walk to Wegman's if nice outdoors.

Afternoon

Gravic Labs tour

- 1. Bimorph mirrors,
- 2. Various detectors & high-speed electrometer,
- 3. Lightweight mirrors & scopes meniscus, pneumatic, and Starstone,
- 4. Cold silvering and overcoating progress,
- 5. High-speed cameras: Photometrics, JAI, Lumenera (Russ) & software
- 6. ROO demo (VFB)

Additional talks and discussions

Supporting computer software demos (as needed/wanted)

Occult4, Occult Watcher, Lunar Occultation Workbench, LiMovie, Tangra, MetaCurve, WinFluor, and others.

Dinner 6:00pm

Hunt Room at the Desmond (provided by Gravic). Spouses/significant others are welcome - please let Bruce H. know the headcount.

Observing 8+ pm

Observing in Gravic's parking lot if conditions are clear. Lunar Occultation predictions are listed below.

Gravic's Location & Directions http://www.gravic.com

301 Lindenwood Dr. Suite 100, Malvern, PA 19355 Office number 610 647-6250, Bruce H. cell 610 405-7552. Directions: Take Rt. 202, Get off on Rt. 29 South, Turn on first right (across from the Wawa) into Valleybrooke Corporate Park. Head straight around the circle to the last building (#301). Lots of parking on the rear of the building. We are on the first floor, however the building doors may be locked and you may have to call BDH cell. (click here for a map).

Suggested Hotel

Holiday Inn Express, Frazer, PA http://www.hiexpress.com/hotels/us/en/frazer/fzrpa/hoteldetail/directions

Occult4 Occultation predictions for Malvern-Gravic

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E. Longitude - 75 31 47.8, Latitude 40 3 0.7, Alt. 107m; Telescope dia 50cm; dMag 0.0
      day Time P Star Sp Mag Mag
                                        % Elon Sun Moon
                                                         CA
                                                             PA VA AA Libration A B RV Cct
durn R.A. (J2000) Dec
y m d h m s
                     No D
                              V
                                  r V ill
                                           Alt Alt Az
                                                                 0 0 L
                                                                             B m/o m/o "/sec
                                                         0
                                                              0
sec h m s o m s
11 Oct 9 1 22 11 d 146316 K5 9.1 8.3 92+ 147
                                                  44 152 80N 65 86 87 +4.4 -5.9 +1.8+1.4 .344
22 47 52.8 - 2 53 8
11 Oct 9 1 22 55 d 146313 A5 9.2 9.0
                                       92+ 147
                                                  44 152 65N 49 70 71 +4.4 -5.9 +1.5+1.8 .344
22 47 44.6 - 2 49 32
11 Oct 9 1 32 23 D
                    3340cF5 7.7 7.5 92+ 147
                                                  45 156 18N 2 21 25 +4.3 -5.9 +0.2+3.5 .202
                                                                                               54
22 47 12.7 - 2 42 35
     3340 is double: ** 7.7 9.5 0.050" 149.0**
     3340 has been reported as non-instantaneous (OCc 421). Observations are highly desired
  Distance of 3340 to Terminator = 18.6"; to 3km sunlit peak = 6.5"
11 Oct 9 3 24 42 m 146338 GO 8.5 8.2 92+ 147 46 195 198 145 134 168 +3.9 -6.1 +9.9+9.9 .000 -90
22 49 56.2 - 2 49 18
11 Oct 9 3 26 37 d 146334cK0 9.1 8.5
                                       92+ 147 47 196 38N 23 11 45 +3.9 -6.1 +0.9+2.1 .290
22 49 44.2 - 2 21 32
   146334 is double: ** 9.7 9.7 0.10" 28.0**
   146334 has been reported as non-instantaneous (OCc 355). Observations are highly desired
11 Oct 9 3 32 36 d 146343 K2 8.8 8.1 92+ 147 46 198 70N 55 41 77 +3.9 -6.1 +1.7+0.9 .344
22 50 16.8 - 2 25 31
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