**NHAS June 2016 Business Meeting**

The June business meeting was held at the McAuliffe-Shepard Discovery Center, our President, John Bishop, presiding.

Megan Gialluca won second place in the National Young Astronomer’s Award and has been invited to speak at the Astronomical League’s ALCon 2016 event.

**The Future Is Now**

Our summer pot-luck event will be on July 16. Gerry Smith is coordinating.

We will hold club observing nights at Benedictine Park in Bedford, 7-11 PM, on July 8, August 16, and September 23. Each of these events needs a coordinator.

Gary Duranko, our coordinator for the New England Fall Astronomy Festival (NEFAF), reports that this year’s event will be September 9 and 10 at UNH. Seth Shawstack, the principal investigator at SETI, will be the keynote speaker. NHAS will conduct sky watches both nights and solar observing in the daytime. NHAS possibly will have an indoor booth, perhaps with a display related to the 2017 total solar eclipse. There are slots open for NHAS to give two indoor presentations. Contact Gary at duranko@myfairpoint.net if you’re interested in helping out.

**Courses**

Steve Rand continues to run the Sky Watch 101 course on how to conduct a sky watch. Email him if you’re interested.

We are working on a course on “how to use your computerized scope”.

We are working on a “fix your Dob” course.

More course presentations and course suggestions are welcome.

**Public Observing**

Not much activity in June. We expect things to pick up in July.

**Library Telescope Program**

Pete Smith has four scopes pending.

**Speaker Search**

Gary Duranko reports that we have speakers for July and August. We are looking for outside speakers for September and October.

**Membership**

Pat Adams is stepping down as chairman of the Membership Committee. Many thanks for his work on membership and organizing courses. We need a replacement!

**Gadget of the Month**

Marc Stowbridge presented the Revolution Image camera. It has a WiFi connection and so can transmit to a cell phone or whatever. It has the potential to make telescope observing more accessible to those in wheelchairs or otherwise unable to reach the eyepiece.

**Astronomy Shorts**

Tom Cocchiaro reports that the Earth has been discovered to have a partner asteroid, 300m across, orbiting it at 38X the distance of the Moon.

Paul Winalski notes that we are in our second string this year of spotless days for the Sun. We are definitely headed towards solar minimum.

**Guest Speaker**

Professor Bill McKeeman presented “Dark Matter; Dark Energy; the Universe: Cosmic Speculation”.

---

**The Bottom Line**

Starting Balance: $16920.83

Deposits/Credits:

- Membership: 153.56
- Donations: 325.00
- Bank interest: 0.41
- Subscription: 33.01

Total: 511.98

Accounts/Paid:

- Rackspace Cloud: 60.14
- Cornerstones of Science (LTP accessories): 168.00
- Carlton-Bates (hole plug x30 for LTP mods): 13.25
- Jameco (AA battery holder x 12): 19.58
- B&H Photo (zoom EP x4): 235.80
- Orion Telescopes (Starblast x4): 839.96
- Kalmbach Publishing: 34.00
- UNH Physics Department (NEFAF Donation): 750.00

Total: 2120.73

Net Account Balance: $15312.08

Petty cash drawer: $100.00

Cash Balance: $15412.08

**Membership**: 163

<table>
<thead>
<tr>
<th>Ind. Fam.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash Renewals: 0 0 0.00</td>
</tr>
<tr>
<td>Cash New: 0 0 0.00</td>
</tr>
<tr>
<td>PayPal Renewals: 0 0 0.00</td>
</tr>
<tr>
<td>PayPal New: 5 1 153.56</td>
</tr>
<tr>
<td>Total: 5 153.56</td>
</tr>
</tbody>
</table>

**Current Members**: 168

| 27 Family |

---

On the web at http://www.nhastro.com/
New Members:
Shriram “JS” Jagannathan, Lebanon
Paul Bradshaw, Penacook
Jeff Wethington, Derry
Derrick Cummings, Portsmouth
Mike Kertyzak, Amherst
Ravi Subrahmanyan, Windham

Donations:
Exeter Public Library 325.00

David Gilmore
NHAS Treasurer 2016
DEADLINE July 2016 Issue: 5 August 2016
E-mail articles to the Editor.

CHANGE OF ADDRESS – Notify the Treasurer of changes to postal or e-mail address.

How to Join N.H.A.S.
Write to us: Send E-mail to:
NHAS info@nhastro.com
P.O. Box 5823
Manchester, NH 03108-5823
Attn: Treasurer

Use our web site: http://www.nhastro.com/

This month's contributors: David Gilmore, Paul Winalski

New Hampshire Astronomical Society
P.O. Box 5823
Manchester, NH 03108-5823

NHAS Upcoming Events

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discovery Center Sky Watch</td>
<td>July 1</td>
<td>7:00 PM</td>
<td>McAuliffe-Shepard Discovery Center, Concord NH</td>
</tr>
<tr>
<td>Coffee House Night</td>
<td>July 2</td>
<td>5:00 PM</td>
<td>YFOS</td>
</tr>
<tr>
<td>Rey Center Sky Watch</td>
<td>July 2</td>
<td>9:30 PM</td>
<td>Curious George Cottage, Waterville Valley NH</td>
</tr>
<tr>
<td>Mt. Washington Hotel Sky Watch</td>
<td>July 3</td>
<td>8:00 PM</td>
<td>Omni Mt. Washington Resort, Bretton Woods NH</td>
</tr>
<tr>
<td>Castle in the Clouds Sky Watch</td>
<td>July 5</td>
<td>8:00 PM</td>
<td>455 Old Mountain Road, Moultonborough NH</td>
</tr>
<tr>
<td>Sidewalk Astronomy</td>
<td>July 9</td>
<td>6:00 PM</td>
<td>Market Square, Portsmouth NH</td>
</tr>
<tr>
<td>Chester Public Library Sky Watch</td>
<td>July 11</td>
<td>8:00 PM</td>
<td>3 Chester Street, Chester NH</td>
</tr>
<tr>
<td>Goffstown Public Library Sky Watch</td>
<td>July 13</td>
<td>8:00 PM</td>
<td>Water Works Property, Rte. 114, Goffstown NH</td>
</tr>
<tr>
<td>NHAS Outing</td>
<td>July 16</td>
<td>1:00 PM</td>
<td>Byrne Residence</td>
</tr>
<tr>
<td>Pease Public Library Sky Watch</td>
<td>July 18</td>
<td>7:30 PM</td>
<td>Pease Public Library, Plymouth NH</td>
</tr>
<tr>
<td>Lake Morey Resort Sky Watch</td>
<td>July 19</td>
<td>9:00 PM</td>
<td>Clubhouse Road, Fairlee VT</td>
</tr>
<tr>
<td>NHAS Monthly Meeting</td>
<td>July 22</td>
<td>7:30 PM</td>
<td>St. Anselm College, Manchester NH</td>
</tr>
<tr>
<td>Dunstable Summer Concert Sky Watch</td>
<td>July 27</td>
<td>8:30 PM</td>
<td>Dunstable Common, Common St., Dunstable MA</td>
</tr>
<tr>
<td>Lane Memorial Library Sky Watch</td>
<td>July 28</td>
<td>8:30 PM</td>
<td>North Beach, 931 Ocean Boulevard, Hampton NH</td>
</tr>
<tr>
<td>YFOS Orientation</td>
<td>July 29</td>
<td>7:30 PM</td>
<td>YFOS</td>
</tr>
</tbody>
</table>