2015 officers

- **President:** Amanda Bell
- **Vice President:** Robert Arn
- **Secretary:** Dave Karp
- **Treasurer:** Greg Halac

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- **vp@**
- **sec@**
- **treas@**
- **objview@**
- **web-edit@**

To contact officers, use @NoCoAstro.org

**NOTE:** new website, new email address!

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Have you seen Robert Arn’s amazing creation: www.NoCoAstro.org?

Yes, our new website is live!

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What you’ll find in this newsletter.

- page 3: meeting details
- page 4-5: science news
- page 6: next month calendar
- page 7: NCAS info
- page 8: northern colorado resources

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Moon

Dan Lafaive
June meeting details.

- **topic**: ‘Radio Astronomy’
- **speaker**: Jay Wilson, Little Thompson Observatory
- **time & date**: Thursday, June 4th at 6:15pm
- **location**: Fort Collins Museum of Discovery
  408 Mason Court, Fort Collins 80524
Researchers hone technique for finding signs of life on the Red Planet: Astrobiologists want to improve the way unmanned Mars probes detect condensed aromatic carbon, thought to be a chemical signature of astrobiology.*

Blazers Are A Thing: Hank explains how quasars and blazers are both the same thing - just oriented differently in respect to us and how that impacts the way we perceive them.*

Cosmic Queries: LightSail with Bill Nye: Bill explains how LightSail (a tiny spacecraft, just 30 cm on a side) will be pushed through space by sunlight (with its 32 square meter solar sail), because even though photons may not have mass, they do have momentum.*

Why there is so little breathable oxygen in space: A ground-based experiment has revealed why this life-giving molecule is so rare in the cosmos.*

Comet Wild 2: A window into the birth of the solar system: Scientists have investigated the oxygen isotope and mineral composition of the comet dust returned from Wild 2. The team discovered an unexpected combination of material that has deepened the mystery of Wild 2’s past.*
Left-handed cosmic magnetic field could explain missing antimatter: The discovery of a ‘left-handed’ magnetic field that pervades the universe could help explain a long standing mystery — the absence of cosmic antimatter.

Nobel laureate foresees mind-expanding future of physics: Frank Wilczek advocates viewing the standard model of particle physics as consisting of two ‘kingdoms,’ one comprising the basic particles of matter and the other of the particles that transmit nature’s fundamental forces.

Gargantuan gas halo around Andromeda galaxy: The Andromeda galaxy, our nearest massive galactic neighbor, is about six times larger and 1,000 times more massive than previously measured.

Astronomers spot one-in-10-million phenomenon in early universe: Is this a cosmic fluke or is it time to rewrite our theories of how the universe’s largest structures form?

Astronomers unveil farthest galaxy, more than 13 billion years in the past: The galaxy EGS-zs8-1 sets a new distance record. It was discovered in images from the Hubble Space Telescope’s CANDELS survey.

The Great American Eclipse: Millions of Americans will see the sight of a lifetime on August 21, 2017 when a rare total solar eclipse sweeps the nation from Oregon to South Carolina. Day turns to night for two minutes. Will you be ready?
**June 2015**

A look at what’s happening in the world of astronomy.

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<td></td>
<td></td>
<td>First American Spacewalk, 1965</td>
<td>Astro-talk at FoCo MoD 6:15pm</td>
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<td>Globe at Night 8-17th</td>
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<td>Mars Rover Spirit Launch, 2003</td>
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<td>Jackson Lake State Park 9-11pm</td>
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<tr>
<td></td>
<td>Astrobiology Science Conference 2015</td>
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<td>SpaceX to ISS</td>
<td>Carter Lake Skygazing 9-11pm</td>
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<td>Cub Scout (Private) 9-10:30pm</td>
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<td>Fossil Creek Res Skygazing 8pm</td>
<td>Royal Lake Skygazing 9-11pm</td>
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Do you know an event that should be added to an upcoming calendar? Help keep everyone informed: send it to ObjView at ncastro.org
You are the Northern Colorado Astronomical Society (NCAS).

Established in 1995 as a non-profit organization we are here to promote interest in the science and hobby of astronomy. We meet the first Thursday of each month to discuss our interests and experience in the universal world of astronomy.

Monthly talks are free and open to the public. Bring a friend!

Come to dinner!

Join your fellow NCAS members after the meeting for dinner & drinks with this month’s speaker. RSVP to an officer if you’d like to join us. Dutch treat.

Become a Member:
Learn about benefits of membership!

Borrow equipment here:
Club items may be borrowed at no cost by NCAS members! Find out more here.

Astronomy Gear how-to Guides:
Learn about telescopes and astrophotography.

Member Photo Albums:
You’ll want to see all of the amazing photos taken by our members.

NCAS Email:
Anyone can join the email lists but subscription requests are monitored. Only approved subscribers are allowed to post.

Club Meeting Overview:
Recommend a future speaker or find out how to join speakers for dinner before the NCAS meeting.

NCAS Admin Info:
Find group bylaws and constitution.

NCAS Public Outreach:
Help NCAS fulfill its primary mission: to educate and engage the public with year-round public events!
Boulder Astronomy & Space Society (BASS): meetings are hosted by the UC campus at the Fiske Planetarium. Open to students and the public.

Denver Astronomical Society (DAS): promoting understanding of astronomical phenomenon at the U of Denver’s historic Chamberlin Observatory.

Estes Park Memorial Observatory (EPMO): has many goals, including encouraging enthusiasm for physics and math in kids of K-12th grade.

Fort Collins Museum of Discovery (FOCO MOD): The MoD isn’t just where we hold our meetings. Check out their calendar for current events or to find out more.

FRCC Stargazer Observatory (FRCC): thanks to a unique partnership with Village Homes, FRCC operates an astronomy lab at Observatory Village in SE Fort Collins.

FRCC Sunlight Peak Observatory (FRCC): operated on the FRCC Larimer campus directly behind the Harmony Library. Open houses held 1st Friday of each month.

Little Thompson Observatory (LTO): no-charge public access to the universe available during regularly-scheduled public star nights or schedule your own private observatory event (for free!)

Longmont Astronomical Society (LAS): promotes amateur astronomy through monthly meetings, star parties and public observing sessions. Meetings are open to the public.

Sommers-Bausch Observatory (SBO): Operated by the Department of Astrophysical and Planetary Sciences (APS) at CU Boulder. See the spring semester Friday night viewing schedule.
Want to see your astrophotos in the newsletter? Send them to: objview@nastro.org