



THE SPUR

Oct. 25, 2017

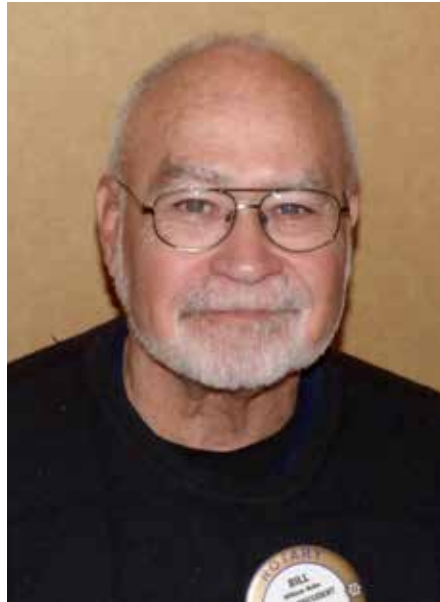
The ROTARY CLUB of LIVERMORE



SOLAR ECLIPSE Alan Frank



Meeting
Photos by
Dale Miller



Bill Nebo
Your Spur Reporter



T.J. Gilmartin
Thought for the Day

Standing in for absent President Sam, President Elect Kathy Coyle opened the meeting with the flag salute at 12:30 pm sharp. In recognition of the program of the day (The Solar Eclipse) songsters led the club in singing "When you Wish Upon a Star".

T.J. Gilmartin was called upon for "The Thought of the Day" and he chose to review the three principles for developing friendship and leadership created by the life work of our own John Shirley. Those



Rotary Make-up Opportunities in the Tri-Valley

TUESDAY
11:55 AM-12:30
Interact
Livermore High
Room 412

TUESDAY
7:00 AM
Livermore Valley Club
Beeb's
Livermore

TUESDAY
12:15 PM
Dublin Club
Dublin Ranch Golf Club
5900 Signal Hill Drive

THURSDAY
12:15 PM
Pleasanton Club
Haps Original
Pleasanton

THURSDAY
7:30 PM
Rotaract Club
Handles Gastropub
Pleasanton

THURSDAY
6:00 PM
Tri-Valley Club
Castlewood CC
Pleasanton

FRIDAY
12:10 PM
Pleasanton North Club
Handles Gastropub
Pleasanton

New Day!

The Meeting

principles were:

Looking Outward,

This means being interested in and invested in the lives others:

Adventure:

We experience this adventure when taking the risk of being involved in projects and endeavors that leave the world a better place:

Optimism:

This a mature habit of understanding life's negativity while seeking to find the positive and overcoming the obstacles to making it prevail.

President Elect Cathy recognized visitors Alan Burnham, Burley Dave, Kari Miller, Bill Noble, Gary Oliver, and John Shirley's son and daughter Steve Shirley and Jean Otto.

There were no visiting Rotarians present.



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The Meeting

Red Badgers were invited to stand along with Rotarians to their left and answer the question "Have you ever had a polio vaccination. Red Badgers Contreras and Philips had not been vaccinated whereas Joel Swanson had been vaccinated.



The Spirit Run results will be formally recognized and celebrated next week when President Sam is on hand. Deborah McQueen reported that over 300 runners participated with a grand total of \$27,000 realized from all sources.



Dean Simpson and Ross Phillips reported on the October 21 Home repair project at the home of Mrs. Navarro on Bernal street in Livermore. Volunteers Phil Dean, Mike Riehl, Paul Thompson, Paul Szmyd, Deborah McQueen, Sam Steele, Ross P hillips and Dean Simpson replaced a bedroom door, bathroom faucet and drain, batteries in a CO2 detector. They weeded and trimmed bushes and trees in the front and rear yards, installed a walking path, bench and sitting area, repainted a bathroom vanity and door and casing, and installed 2 new smoke detectors. This is the pilot project that the team is looking to repeat as people of need are identified in our community

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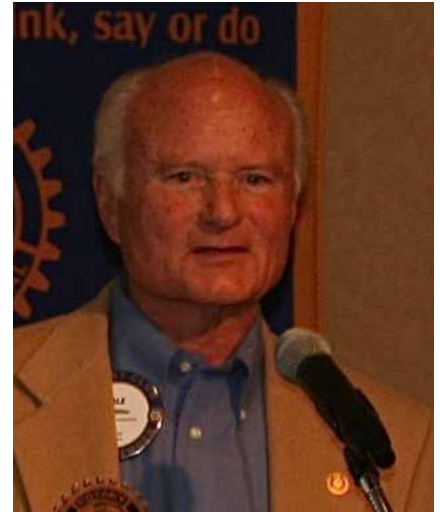
The Meeting



Dianna Geyer reminded the club of Inner Wheel "I Gave at the Cave Wine" program of great wine and hors d'oeuvres and great music on November 5th from 4-6 pm . Cost is \$50 for a single and \$100 for a couple.



Sblend Sblendorio presented to the club a money making opportunity for the local Foundation by offering to sell 20 cases of his finest (and sold out everywhere else) Page Mill Zinfandel wine for \$300 a case, with a large bite of that amount being donated to the local Foundation. Contact Splend for this fine offer of wine selling otherwise (when it was on the shelf) for \$26 per bottle.



Dale Miller introduced our own Alan Frank as the program speaker for the afternoon. Al presented a detailed report of the coast to coast total solar eclipse of 2017, a phenomena not seen in our country since 1918.

New Member Proposal

This is the first publication of a new member proposal for Alan Burnham. Alan is a chemist/consultant and lives in Livermore. He has been sponsored for membership by Irv Stowers & Pat McMenamin. If anyone has an objection to this proposal, please contact Ken Perine immediately.

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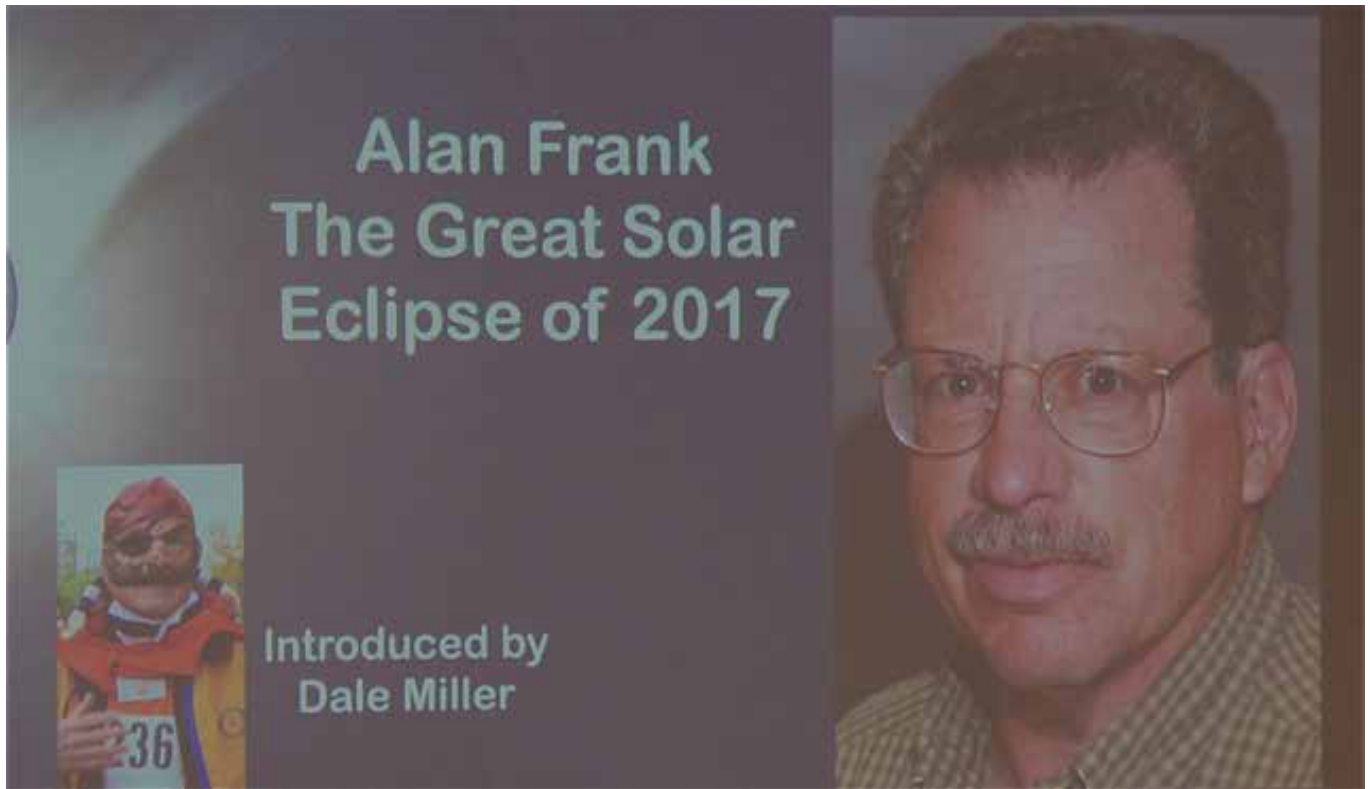
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The Meeting



Al is a true student of astronomy, and the sun in particular. Before coming to LLNL he was a staff scientist at Ball Brothers Research Corp in Boulder Co where he worked on the solar instrumentation for Sky Lab and the Big Bear Solar Observatory.


He was Mission Scientist for the orbiting solar observatory. He has also authored over 40 scientific papers and holds seven patents.



Al used computer projected overhead visuals to show the

club just what could be learned from the close observation and photographic study of a total eclipse. Traveling to Wyoming with his wife where he hooked up with the Hartwigs and Davises, Al's band found a suitable spot for observation and photographing the totality at a spot near Navrona, WY.

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The Meeting

Can not capture it all in one exposure.

Corona brightness drops off rapidly about 1000X at one solar radius from limb.

Note earth shine on surface of moon.

Camera preset to automatically bracket exposures by over 4000X (12 stops).

Exposure 0.5 seconds

Short to mid exposure composite details the inner corona.

Can not see this part of the corona except during an eclipse.

Coronal hole around prominence?

Five frame composite
1/500, 1/250, 1/125, 1/60, 1/30 sec

Composite image from a pro with a 10" telescope on a motorized equatorial mount.

Image compositing is a tricky and time consuming task.

Professional images are only now being posted.

Magnetic arcs ahead of prominences.
Shock waves sweeping out plasma?

SEBASTIAN VOLT
PHOTOGRAPHY
PHOTOGRAPHY

The corona extends to the earth and directly impacts our environment.

Modern instruments are trying to figure out what heats the corona.

Hypothesis: Solar turbulence tangles magnetic fields creating many powerful charged particle accelerators and triggering micro flares thus heating the corona.

Deep UV
Beyond visible
Iron IX
T>5,000,000C

Hydrogen
Visible light

Because of the crush of people gathering to see the totality, the Frank band marshaled north of the eclipse totality track and then travelled south to a suitable spot on the day of the event.

Al's photographing of the totality was part of a scientific project called the Eclipse Megamovie Project which enlisted the participation of over 1000 eclipse photographers to contribute

material for the creation of a detailed visual study of the sun during a total eclipse.

Alex explained that a total eclipse allows a study of the sun's corona which is not viewable otherwise. One of the issues that is under study is the huge temperature detected in the

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ASA

The Meeting

sun's corona that reaches over 5 million degrees centigrade, a temperature much higher than the sun's photosphere and chromosphere. Photos of the Sun during the eclipse show micro flares that appear to be caused by highly charge particles accelerated by turbulence tangled magnetic fields. Al pointed out that this is still just speculation given what is seen on the photographs taken of the sun during its total eclipse.

With some time left over after Al's captivating look at the sun during a total solar eclipse Carol Gerich sacrificed herself on the altar of generosity offering \$100 for the Dictionary Fund as a fine for her Fiat snow trek in Italy.

Joel Swanson won the lottery drawing and President Elect Cathy rang the meeting to s close at 1:30pm

Next week's program will feature a presentation of the state political scene by State Assembly Representative Catherine Baker.





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COMING ATTRACTIONS

Nov 8 - Meeting - Speaker Catharine Baker, Assemblywoman
Nov 15 - Meeting - Speaker Brad Howard, Rotary International Director,
"People of Action - Rotarians, Local and Global"

Nov 21 - Board of Directors Meeting

Nov 22 - No Meeting this week. Happy Thanksgiving

Nov 29 - Meeting - Speaker Dr. Julio Friedman, LLNL "Energy ? Issues,
Tradeoffs, Projections"

Holiday Party at Alden Lane 5:30

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Orrin Mahoney

ASSISTANT GOVERNOR

Milly Seibel

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PRESIDENT ELECT - Kathy Coyle

SECRETARY -David Rounds

TREASURER - Irv Stowers

CLUB SERVICE DIRECTOR

Alan Frank

MEMBERSHIP – Ken Perine

PARLIAMENTARIAN

Sblend Sblendorio

SERGEANT at ARMS

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Ted Michels

PAST PRESIDENT –Don Wentz

Club Holiday Party - Nov 29 Alden Lane Nursery

