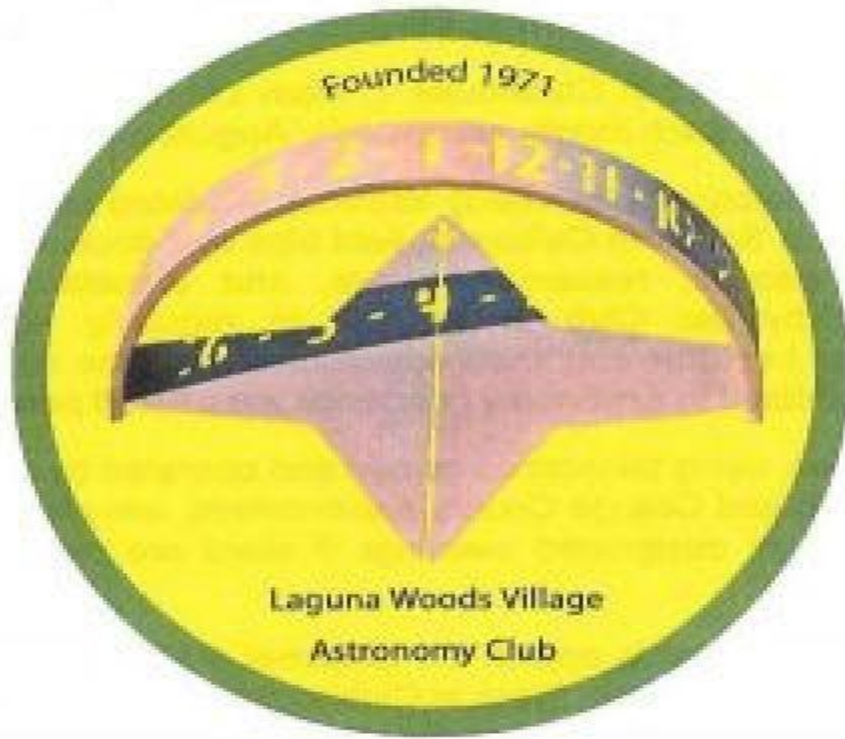


# **Astronomy Club**

## **Laguna Woods Village**



# **2025**

## **Going Solar Maximum**

## **Orbital Review**

The club had a busy 2024 with lectures, field trips, and Solstice parties. We also had two first-time activities of a well-attended Solar Eclipse Party in April and a road trip to Joshua Tree National Park in June. We may do these events again in the future although the next solar eclipse in the USA won't be until 2044! We also were invited to present our History of Astronomy lecture to several other clubs in the community. Many thanks to every member and club volunteer who helped make 2024 as successful as it was. We would also like to thank Anita Gosch and her staff with The Globe newspaper for highlighting our club activities multiple times throughout the year. The club board will work to fill 2025 with fun and interesting events as we journey together around our closest star, the sun. The sun has just entered a solar maximum in its 11 year cycle of reversing its magnetic field. This may impact the Earth's and even our own magnetic fields in ways we don't yet fully understand. The pages ahead outline of our current plan including a new opportunity to share a unique experience with other club members. Our Treasurer, Stuart Fried, is already signed up for a cruise trip to Norway to view the Northern Lights in October. Several other people have already expressed an interest in going. There is no guarantee of the quality of the view at that time but the front and back cover of this booklet show what the view was last October. Special thanks to club member, Joe Brown, for sharing these photos he took while he was there.

With the sun at a solar maximum and the aggressive spaceflight development program of SpaceX, 2025 is shaping up to be a very exciting year. The Astronomy Club will try to do our part to make it fun and educational for every member and guest. - Joe Camera

## **Your 2025 Board**

**President - Joe Camera**

**Treasurer - Stuart Fried**

**Secretary - Chris Kemp**

## Club Meeting Dates

The club meets on the third Wednesday of the month at 7 p.m. All meetings are scheduled to be in the main hall at Clubhouse 1. We meet nine months each year, taking a break in July, August, and December.

**January 15**

**February 19**

**March 19**

**April 16**

**May 21**

**June 18**

**September 17**

**October 15**

**November 19**

## Solstice Parties

Last years Solstice Parties were well attended. We look forward to providing two more FREE member appreciation parties in 2025. The Summer one will be another outdoor BBQ event.

**Summer Solstice Party – June 20**

**Winter Solstice Party – December 21**



**Several of the club members that attended our 2024 Summer Solstice Party.**

## Star Parties

Depending on sky conditions, we will have mini star parties after each meeting outside Clubhouse 1. We will also provide carpool services to Caspers Park as needed and available. Allen White's many years of service hosting star parties there is greatly appreciated. Bob O'Dell will begin hosting the parties starting this year. He was our guest speaker last October and joined our gathering at Joshua Tree National Park last June. We look forward to him sharing his enthusiasm for the night sky throughout the upcoming year.

### 2025 Schedule for Star Parties at Caspers State Park:

Date	Sunset	Event	Observation Notes
Sat Jan 25	5:17 PM	5:30-7:30	Venus, Mars, Jupiter, Saturn
Sat Feb 22	5:43 PM	6:00-8:00	Mercury, Venus, Mars, Jupiter, Saturn
Thu Mar 13	6:58 PM	9PM-3AM	Total Lunar Eclipse (totality at midnite)
Sat Mar 29	7:10 PM	7:30-9:30	Mars, Jupiter
Sat Apr 26	7:31 PM	7:30-9:30	Mars, Jupiter
Sat May 3	7:36 PM	7:30-9:30	International Astronomy Day (Moon)
Sat May 24	7:52 PM	8:00-10:00	Mars, Jupiter
Sat Jun 21	8:05 PM	8:00-10:00	Mercury, Mars
Sat Jul 19	8:00 PM	8:00-10:00	Mercury, Mars
Sat Aug 23	7:28 PM	7:30-9:30	Mars, Saturn
Sat Sep 27	6:41 PM	7:00-9:00	International Astronomy Day (Moon)
Sat Oct 18	6:14 PM	6:30-8:30	Mercury, Mars, Saturn
Sat Nov 22	4:46 PM	5:00-7:00	Mars, Saturn

## Field Trips

Note that the Norway cruise is not an official club event just information sharing to facilitate a shared experience for anyone that wants to go.

Current 2025 Field Trip plan:

California Science Center

March 12

San Diego Air and Space Museum

June (date TBD)

NASA Jet Propulsion Laboratory

September (Date TBD)

Norwegian Cruise to Norway

October 10-22



**Photo from our previous field trip to the San Diego Air and Space Museum that was printed in both The Globe and Village Breeze.**

# Lunar Calendar

## 2025

**January**



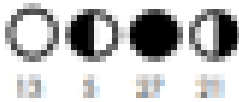
**February**



**March**



**April**



**May**



**June**



**July**



**August**



**September**



**October**



**November**



**December**



Full Moon



First Quarter



New Moon



Last Quarter



## Resources

We are fortunate to live at a time where useful information is available any time, any place, and right at our fingertips. The following is not comprehensive but offers a few resources that may be useful for anyone interested in more information about astronomy.

The club website can be accessed with a few clicks on the main Laguna Woods website or reached directly at the following address:

<https://lagunawoodsvillage.com/amenities/clubs/astronomy-club>

### Other websites that may be of value include:

NASA: [www.NASA.gov](http://www.NASA.gov)

Orange County Astronomers: [www.ocastronomers.org](http://www.ocastronomers.org)

YouTube: “Laguna Woods Astronomy Club”

Guide to the Night Sky: [www.in-the-night-sky.org](http://www.in-the-night-sky.org)

Planetary Society: [www.planetary.org](http://www.planetary.org)

Good launch schedules and other current information:

[www.space.com](http://www.space.com)

[www.spaceflightnow.com](http://www.spaceflightnow.com)

### Phone Applications

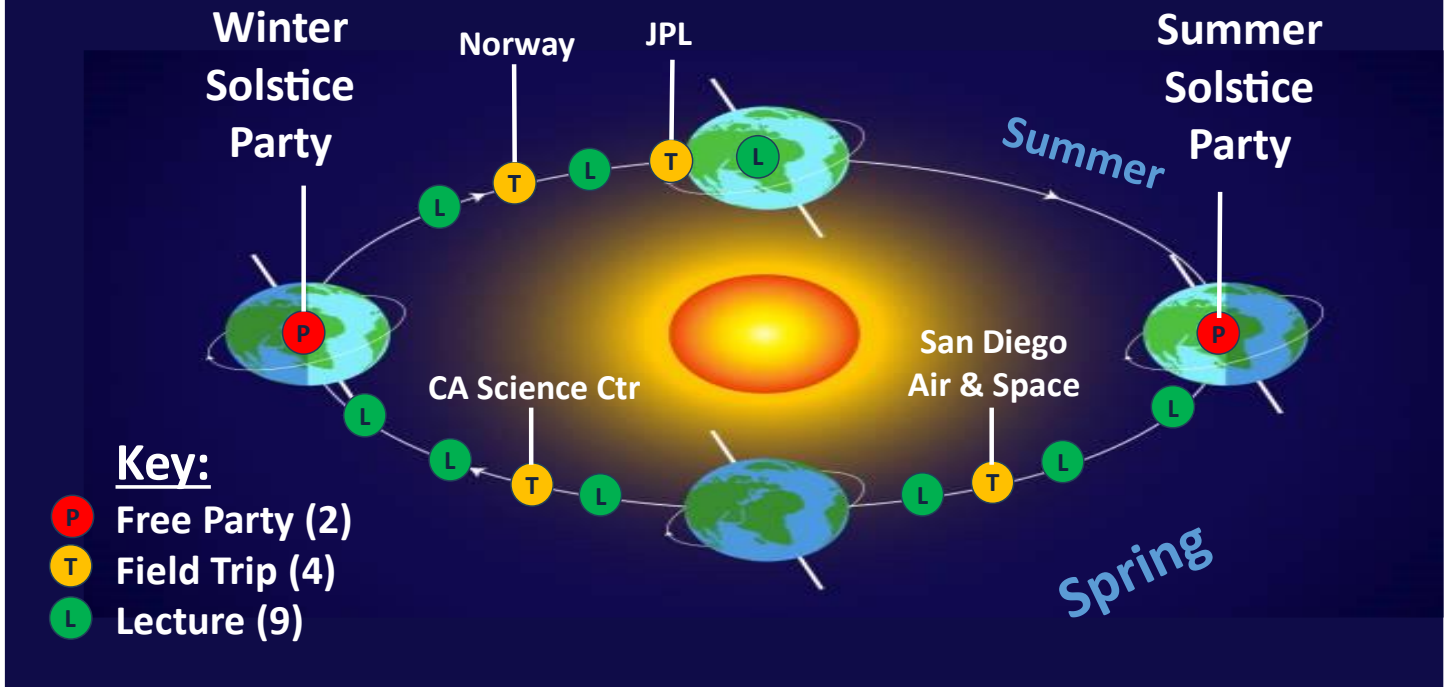
There are multiple phone applications for both Android and Apple phones that integrate with the phone camera to show you what you are looking at in the night sky. The following are three that currently are free to download and use:

“Sky Map”

“Skyview”

“SkyPortal”

# 2025 Orbit Plan



## Brief Astronomy Club History

The club began on August 30, 1971 when a group of residents began meeting to hear lectures and discussions about astronomy and space exploration, and to observe the sky. Some were amateur astronomers who shared their telescopes with the others. The club was officially chartered in November, 1971.

The club has had multiple distinguished members over the years. George Russell was the grandnephew of Orville Wright and presented to the club about the six months he spent with "My Uncle Orv". Dr. Irvin Rose, biologist, won the Nobel Prize in Chemistry along with 2 others. Their work helped in the fight against cancer. Man Fred Krutien, an engineer, directed a mission to secretly raise a sunken Soviet submarine from the Pacific Ocean floor using the Hughes Glomar Explorer. In addition, he developed the Martian calendar. Jim Conrad inspected nuclear reactors for the Atomic Energy Commission. Nancy Condon worked for Hughes Space and Communications and Boeing Satellite Systems. She was involved in the Galileo space satellite probe to Jupiter and the GOES Satellites that study Earth.



## Past Presidents

Gordon McFarland	1971-1973
Addison Young	1973-1974
William Gregory	1974-1975
Al Rosenberg	1975-1976
Charles Copeland	1976-1977
Eleanor Holder	1977-1978
Gordon McFarland	1978-1979
Charles Copeland	1979-1980
Phillip Bruce	1980-1981
Thomas Gottier	1981-1982
Eleanor Holder	1982-1983
Priscilla Polkinghorn	1983-1984
Elmoe Gillette	1984-1985
Howard Dorer	1985-1986
Charles Parker	1986-1987
Gordon McFarland	1987-1988
Howard Dorer	1988-1989
Phillip Bruce	1989-1991
Dr. Eva Sargent	1991-1992
Marguerite Buttner	1992-1993
Pauline Stanley	1993-1994
Alvin Scott	1994-1995
Hilda Dorer	1995-1999
Joe Rainey	1999-2001
John Andes	2001-2002
Fred & Georgiale Granger	2002-2003
Lennie Sutherland	2003-2005
Deborah August	2005-2006
Wib Sutherland	2006-2007
John Hagge & Nancy Condon	2008-2010
John Hagge	2011-2014
Don Clark & John Hagge	2015-2016
John Hagge	2016-2021
Joe Camera	2021-Present

# Rules and Regulations Governing Astronomy Club

## I. NAME

The name of this club in Laguna Woods Village shall be "Astronomy Club."

## II. PURPOSE OF THE CLUB

This is a Non-Profit club. The purpose of the Club is to encourage and promote interest in and knowledge of astronomy and other related subjects through its programs and activities.

## III. MEMBERSHIP

Membership is open only to residents of Laguna Woods Village in Laguna Woods, CA who indicate an interest in becoming a member by payment of annual fees as established by the board of directors. Members must agree to abide by the rules of the Club. All members are entitled to one vote.

## IV. OFFICERS

1. Officers of the club shall be a President, Vice-President, Secretary and Treasurer. Officers shall have the duties and responsibilities and exercise the authority customarily held by such officers and shall be members of a Board known as the Round-Up.

A. The President shall be responsible for the general operation of the Club and shall appoint such Committee Chairman as he or she deems necessary for the operation of the Club.

B. The Vice-President shall preside in the absence of the President and assist the President as the President may direct.

C. The Secretary shall be responsible for maintaining records of all meetings, including Round-Up meetings, and shall be responsible for all Club Historical Records.

D. The Treasurer shall be responsible for maintaining accounts of Club funds, receiving dues and other income and paying bills and shall submit financial reports at the Round-Up meetings.

E. The officers may from time to time appoint a committee chairman for specific tasks. Except for the office of President, any two offices may be held by the same member.

2. The immediate Past President shall act as the Chairman of the Nominating Committee. In July/August he or she shall select at least one other person to assist and the committee shall prepare a slate of nominees for the various offices and present them to the membership at the September meeting. If the Past President is unable to act, the President shall appoint another to act in his or her place.

3. The Officers of the Club shall be elected by a majority vote of the members at the October General Meeting each year, and serve for a period of one year, January 1st to December 31st or until their successors have been elected.

4. In the event a vacancy occurs in any office of the club or on the board by reason of resignation, or otherwise, the President may fill such vacant offices by appointment until the next election of officers.

#### V. BOARD / ROUND-Up

Board members shall be comprised of the four officer positions and other elected members, which together shall act as the governing body. These members are elected each year by majority vote of the membership present at the October General Meeting. This board shall meet once a month and provide general direction for the Club. It is expected that Board members may assume specific duties within the Club. Duties may include Membership, Calling Committee, Programs, Star Parties, Field Trips, Publicity, Library, Education, Hospitality, Audio-Visual, Yearbook, Facilities/Set-up, Sky Reports, or Website responsibilities.

#### VI. BUDGET & DUES

1. The Board of Directors shall be empowered to adjust dues in accordance with the financial needs of the Club.

2. In January of each year the Board of Directors shall adopt a budget for the coming year.

3. Dues for the coming year shall be due November 1. This is necessary to allow for the yearbook to be published at the beginning of the new year.

4. All monies collected shall be used to foster the purpose of this Non- Profit Club.

## VII. DISSOLUTION CLAUSE

Upon dissolution of this organization, assets shall be distributed for one or more exempt purposes within the meaning of 501(s) (3) of the Internal Revenue Code, or corresponding section of any future federal tax code, or shall be distributed to the federal government, or to a state or local government, for a public purpose.

## VIII. GENERAL RULES

1. The Club shall run from January 1st through December 31st.

2. Any members may bring or invite a guest or guests to attend any meeting or activity of the Club subject to Club rules.

3. The Board may determine, by majority vote, from time to time, which, if any of the meetings or activities may be subject to a donation to the Club by or on behalf of any guest, and the amount thereof.

4. Regular meetings of the Club shall be held at 7:00 p.m. on the third Wednesday beginning January 2006, except the months of December, July and August. Meetings shall convene at the place assigned to the Club by the Recreation Department Reservations Office. Any regular meeting may be changed as to date, time or place as required by circumstances by the Board or by majority vote of the members or may be cancelled if necessary by agreement of the Officers.

5. These rules and regulations may be modified or amended by majority vote of the members present at any general meeting, provided the amendment has been read at the previous meeting.

The original Rules and Regulations for the Astronomy Club were adopted October 25, 1971 and later amended January 24, 1984, March 24, 1987, September 27, 1988, and October 25, 2004.