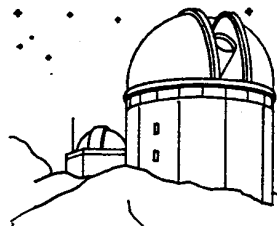


# ***EPHEMERIS***

*OF THE SAN JOSE ASTRONOMICAL ASSOCIATION*



## ***MARCH 1988***

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\* MARCH 5TH 8 PM \*  
\* DR. JACK MARLING \*  
\* "FILTERS FOR OBSERVATION \*  
\* AND ASTROPHOTOGRAPHY" \*  
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- MARCH 5 GENERAL MEETING 8 PM LOS GATOS RED CROSS BUILDING. "FILTERS FOR OBSERVATION AND ASTROPHOTOGRAPHY" WILL BE PRESENTED BY DR. JACK (LUNICON) MARLING.
- MARCH 12 FIELD EXPEDITION FOR ASTRONOMICAL OBSERVATION TO FREMONT PEAK STATE PARK. DUSK TILL DAWN GALAXY HUNTING
- MARCH 19 MESSIER MARATHON AT UVAS RESERVOIR. SEE DETAILS INSIDE.
- MARCH 26 BOARD MEETING AT 6:30 PM WITH THE INTRODUCTORY ASTRONOMY CLASS FOLLOWING AT 8 PM. LOS GATOS RED CROSS BUILDING.
- APRIL 2 GENERAL MEETING 8 PM. DR. MARTIN WALT, DIRECTOR OF RESEARCH AT LOCKHEED'S PALO ALTO RESEARCH LABS: PROSPECTS FOR THE U.S. SPACE PROGRAM.
- APRIL 9 FIELD EXPEDITION FOR ASTRONOMICAL OBSERVATION TO FREMONT PEAK STATE PARK. DUSK TILL DAWN.
- APRIL 23 ASTRONOMY DAY. WE HOPE TO HAVE ONE OR MORE PUBLIC OBSERVING SESSIONS, TO PUBLICIZE ASTRONOMY AND OBSERVING.
- APRIL 30 BOARD MEETING AT 6:30 PM, INTRODUCTORY ASTRONOMY CLASS AT 8:00. NOTE THAT IS THE 5TH SATURDAY; THE CLASS WAS MOVED DOWN TO ACCOMMODATE ASTRONOMY DAY.
- MAY 7 8TH ANNUAL ASTRONOMICAL AUCTION. THIS YEAR WILL FEATURE A FLEA MARKET DURING THE AFTERNOON, SILENT AUCTION FOR LARGE OR SPECIALIZED ITEMS, AND THE TRADITIONAL AUCTION IN THE EVENING. MORE DETAILS INSIDE.

FIELD OF VIEW  
BY: JOHN GLEASON

### **MARCH 5TH GENERAL MEETING**



Please join me in welcoming as this evenings speaker Dr. Jack Marling. Jack is a noted astrophotographer who is best known for his popularization of hypersensitized films and light pollution blocking filters for photography and observation. This evening Jack returns to the SJAA to specifically discuss the current state of filters as used by today's amateur astronomer. Learn how the incorporation of a filter into your regular observations can greatly improve the viewing of celestial objects, not to mention the photographic applications.

### **FORGOTTEN BOARD ELECTIONS!**

Elections for board members should have been held at the February General Meeting, but somehow it was overlooked until too late!

Nominations and elections will be held at the March General Meeting. It is necessary to point out that the SJAA Board of Directors is not run by a clique.

Often we see the same people running for election/re-election because these are members who have a real interest in the operation of one of the largest astronomical organizations in California. However, new, fresh faces are needed. Directors are elected for two-year terms; four in even-numbered years, five in odd years. The present Board, and the candidates are:

ONE YEAR TO GO	TERM EXPIRING	RUNNING	(status)
Steve Greenberg	Joe Sunseri	Joe Sunseri	(inc)
Jim Van Nuland	Gene Cisneros	Gene Cisneros	(inc)
Tom Ahl	Bob Fingerhut		(exiting)
Paul Mancuso	Jack Peterson	Jack Peterson	(inc)
Duncan Munro		_____	(new)
		_____	(new)

Bob Fingerhut has declined re-nomination. The SJAA wishes to thank Bob for his many years of dedicated service. Bob will continue as an active SJAA member at meetings and star parties.

#### Nominations from the floor

If you wish to nominate someone, please ask first for their permission to do so. If you wish to run for the Board, contact any of the election committee (Ahl, Mancuso, Van Nuland (chair)); or have a friend nominate you at the election. Requirements for the Board are (1) one year of membership in the SJAA, or (2) attendance at six board meetings.

#### Officers

At the first board meeting following the election (March 26), the Board will elect the four officers, who will serve for one year. Officers are chosen from the newly-constituted Board.

#### Board Meetings

At the monthly board meetings, planning is done for meetings, star party locations, and activities such as the Auction and Picnic. Meetings of the Board are open to all who are interested, and to all who have business with SJAA. Presently, the meetings are being held just before that Introductory Astronomy class. Please feel free to attend board meetings to see how the club is run. This is a good way to learn whether you would like to be a Board member. It's also a way to get onto the Board, as vacancies are filled by appointment; typically from those who have been attending the Board meetings.

### 8TH ANNUAL ASTRONOMICAL AUCTION

The 8th annual Astronomical Auction will be held on May 7th at the Red Cross building in Los Gatos. To accommodate the increasing amount of good stuff, and hopefully finish before midnight, we will have a Flea Market or Swap Meet during the afternoon from 2:00 to 5:00. Silent-bid sales will be available too. Then from 6:00 until we finish, material will be auctioned. Winners of silent bids will be announced just before the break, possibly around 8:00. Building will be open by 1:00.

#### Flea Market or Auction?

Items having a (realistic) minimum bid of \$5 or less probably should be offered during the flea market, rather than the auction.

Very specialized items, even if valued above \$5, should also be sold at the flea market, as auction time is limited. A silent bid sale could be used. Items of general interest should be entered in the auction. The \$5 minimum is a guideline, but if the item is of wide interest, it could be auctioned. Pre-registration is urged; forms will be published next month.

#### Other thoughts

Procedures are still being discussed, so things may not be just as described here. We feel that it is not reasonable to put a limit on the number of items that may be entered, or to try to define just what is of astronomical interest. One person's junk is another's treasure! The flea market will permit specialized items without causing the auction to run into the wee hours. Please remember that everything is subject to prior sale. As before, SJAA's sales commission will be 10%, and a donation of \$1 is requested when registering to buy or sell. You could also donate the entire sale proceeds to the SJAA if you like. The auction is the SJAA's only fund-raising activity. If you sell something afterward in the parking lot, it seems only right to come in with the 10% commission.

## ASTRO ADS

NOVICE ASTRONOMER is looking for a used Schmidt-Cassegrain telescope with tripod, wedge, and standard accessories. Must be at least 8" in aperture and in mint condition. George Falotico, 408-438-2142 evenings and weekends.

C90 SPOTTING SCOPE (orange) in mint condition with case. Included with scope are star diagonal, 12, 18, and 30mm eyepieces. Also; porro prism, barlow lens and 9-21mm zoom lens eyepiece. Plus; Celestron photographic tripod. Best Offer! Contact: Hal Zangari, 415-365-1843.

WANTED: Did you photograph comet Bradfield in October during its close encounter with M10? If so, I would like to speak with you about obtaining a copy of your photographs. Please call George Falotico at 408-226-5575 evenings and weekends.

76MM REFRACTOR with 1250mm focal length, equatorial mount, 4,6,& 20mm eyepieces with sun & moon filters, tripod, barlow lens, erecting prism, storage box. Asking \$90. Contact: Byron Ryono (415) 949-4470

FIRST SCOPE 80 Refractor. 80mm aperture, 910mm focal length (39 inches long). 26mm 1.25" ocular with diagonal. Sturdy wooden tripod with alt-azimuth adjustment. Like new! Asking \$299 or best offer. Phone: "Al" 408-267-9432 or leave message. (San Jose)

MINT CONDITION CELESTRON Super C8 Plus with Starbright coatings and all factory accessories, including wedge and field tripod, carrying case, 8 x 50 polar alignment finder scope, two eyepieces, piggyback mount, etc. Additional accessories include: Celestron quartz dual axis drive corrector, declination motor, dew shield, counterweight set, off-axis guider and Jim's Mobile electric motorfocus. Asking \$1500. Contact: Bob Mein (408) 373-1965 days, (408) 649-0758 eves, weekends.

CELESTRON RPC5 5-inch Newtonian reflector on regular Polaris mounting. With single-axis drive corrector, built in polar alignment scope, 80 mm finder scope, 26 mm Plossl, 16 mm Erfle. \$400 Contact: Jim 408-374-5491

MEADE 8-inch f/6 reflector in good condition. Accessories include: Motor drive, eyepieces; 40mm, 25mm, 12mm (illuminated w/variable intensity power supply), 9mm. Moon filter, Barlow-2X, Eyepiece extender. Recently culminated, so optical alignment is excellent. \$675 Contact: Jesse Blount (408) 336-5770.

UNIQUE OPPORTUNITY! Long Focus (f=101") 6" f/17 achromatic lens mounted in a machined collimating cell. The lens was made in the 1950's by Witherspoon, and is said to be equal or out perform the refractors at Chabot Observatory. The tube is 7.0" aluminum fitted with anti-reflection diaphragms and has a cork lined dew cap. The focuser is 2" chrome and brass rack and pinion. Also included is a sturdy machined aluminum saddle, finder rings, and very solid (free from play) equatorial mount with ball-bearings on both axes. Tube weight w/o saddle is 60 lbs incl. objective. Only a stand or pier is needed for the equatorial mount to be ready for viewing. \$1900 The refractor is housed at LUMICON. Contact: Jack Marling, 415-447-9570 (day), or 415-443-7579 (evenings), P.O. 495 Livermore, CA. 94550

FOR SALE: 4" Meade Telescope Model 2040A including: Schmidt-Cassegrain assembly, fork mount with motor drive and 6' power cord, manual slow-motion controls, eyepiece holder for 1.25" OD accessories, 5X24mm viewfinder, table tripod of astronomical observing and photography. Also includes the following accessories: Porro prism, T-adaptor, Erecting prism, (2) polarizing lenses, Tele extender, T-ring for Olympus 35mm camera, Eyepieces (research grade Erfle) 40mm, 20mm, 10mm and 7mm, Foam lined carrying case, Instructional manual. Sale price: \$900. Contact: George, (415) 941-2681



### MARCH STARRY NIGHTS BY: RICHARD STANTON

PARTIAL UMBRAL ECLIPSE OF THE MOON - On Thursday, March 3rd, at 05:46 PST the Full Moon will begin to pass through the Earth's penumbral shadow. The entire event will last 5 hours. Only the early penumbral phase will be visible from the western U.S. The central Umbral Phase will be visible from eastern Europe through Alaska, Hawaii and the Pacific Ocean. Given good atmospheric transparency, the southern half of the moon will appear slightly darker than a few hours earlier. Anybody for last minute travel plans?

**TOTAL SOLAR ECLIPSE** - On March 18th the Moon will totally eclipse the Sun. Unfortunately the only place in the U.S. where you can go to view it is Fairbanks, Alaska. At that location the eclipse begins at 02:27 UT, reaches maximum at 03:22 UT, and ends at 03:59 UT with the Sun at an altitude of 3 degrees. When you convert the times to "Local Eskimo Standard", it come out "Sunset". Why only talk about spectacular sunset photos? Hop to it... there's no limit to how many times you can be divorced.

**METEORS** - The month of March contains no shower maximums this year. However, there are two small streams that may put on a show this month. My research has not turned up any hard data on either of these streams. First we have the Camelopardalids within a reference period of march 14 thru April 17. This is a great opportunity for you meteorophiles to get out there and record some useful data. Don't forget to send it in to the Editor so it can be published.

**MINOR PLANETS** - March will again show some fairly good asteroid views for those who have the patience to track them down.

**14 IRENE** - diameter 158 km, magnitude 8.9, opp. Mar. 19

MAR. 10	R.A.	12:03.8	DEC.	+ 17:45.
20		11:55.3		+ 18:44
30		11:46.9		+ 19:17

**10 HYGIEA** - diameter 450 km, magnitude 10, daily motion .17°

MAR. 10	R.A.	10:09.8	DEC.	+ 06:27
20		10:03.3		+ 07:03
30		09:58.6		+ 07:33

**04 VESTA** - diameter 538 km, magnitude 7.3, daily motion .27°

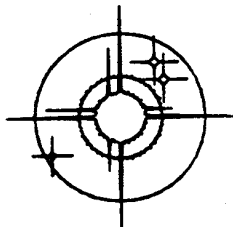
MAR. 10	R.A.	07:42.5	DEC.	+ 26:19
20		07:44.0		+ 26:19
30		07:48.5		+ 26:10

The secret to successfully locating an asteroid is to plot or photograph the location on different evenings and see which "star" is moving among the reference stars. Good Observing!

**LUNAR FEATURES** - During March we will find the Lunar Sunset Terminator falling upon the Straight Wall on the 11th at 04 hours and on the crater Plato at 06 hours. The Sunrise Terminator will march across (I couldn't help myself) the Straight Wall on the 25th at 22 hours. Plato will rise to the morning light on the 26th at 05 hours. The times are Pacific Standard.

**LUNAR APPULSE** - On Saturday, March 26th, the 8 day old moon will have an appulse (close approach) or perhaps even occult the minor planet Vesta. The coordinates for Vesta on this date for 07:49:25 +26:06:51. This event will be a fairly demanding observation as the moon will be about 60% illuminated and Vesta will be around magnitude 7.5. The coordinates are Epoch J2000-0.

### COMET COMMENTS BY: DON MACHHOLZ



One comet has been discovered. It should be easily visible to us for the next few months. Meanwhile, three other comets dim in our northern sky, but they are all well-placed for our observation.

Comet Liller (1988a): Dr. William Liller of Chile discovered this comet on photographic plates taken Jan. 11. He was using an 8" Schmidt Camera in conjunction with the PROBLICOM survey. At that time the comet was magnitude 10 in Sculptor, and moving northward at one degree a day. As with the case of Robert McNaught, Dr. Liller is a professional astronomer who was working on his own time to find the comet, therefore this is considered an amateur find. Three of the last four comets found by amateurs have been found photographically.

Comet Liller will be closest the sun on March 31 with a perihelion distance of 0.848 AU. It should be well-placed for Northern Hemisphere observers thorough August and may attain a brightness of magnitude 6 in April. Incidentally, five of the last ten comets found by amateurs have had perihelion distances between 0.841 and 0.921

# EPHEMERIDES

DATE	R.A. (1950)	DEC	ELONG	MAG	NOTES
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## Comet McNaught (1987b<sub>1</sub>)

02-24	21h 14.5m	+53°00'	65°	9.5	The high inclination of this comet's
02-29	21h 44.7m	+56°20'	66°	9.8	orbit results in the circumpolar
03-05	22h 17.3m	+59°08'	66°	10.0	positions listed here. The comet also
03-10	22h 51.5m	+61°20'	66°	10.3	continues its travel through the Milky
03-15	23h 26.8m	+62°58'	65°	10.6	Way. We now know that Comet McNaught
03-20	00h 02.1m	+64°06'	65°	10.8	is in an elliptical orbit, it will
03-25	00h 36.5m	+64°47'	63°	11.1	return in about 16,576 years. Don't
03-30	01h 09.2m	+65°06'	62°	11.3	wait that long to see it, get one last
04-04	01h 39.6m	+65°07'	60°	11.5	look before it fades from view.

## Comet Bradfield (1987s)

02-24	03h 09.5m	+22°48'	77°	10.0	This comet resides rather high in our
02-29	03h 21.6m	+22°31'	75°	10.2	western sky after evening twilight.
03-05	03h 33.0m	+22°16'	72°	10.5	Rapid recession from both the earth and
03-10	03h 43.9m	+22°02'	70°	10.7	sun this month causes it to dim very
03-15	03h 54.2m	+21°50'	67°	11.0	quickly. As with Comet McNaught, this
03-20	04h 04.2m	+21°38'	64°	11.2	object also passed roughly 0.85 AU from
03-25	04h 13.8m	+21°26'	61°	11.4	the sun late last year. Comet Brad-
03-30	04h 23.1m	+21°15'	59°	11.6	field travels two degrees south of
04-04	04h 32.1m	+21°05'	56°	11.8	the Pleiades on March 9.

DATE	R.A. (1950)	DEC	ELONG	MAG	NOTES
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## Periodic Comet Borrelly (1987p)

02-24	04h 12.6m	+50°06'	96°	9.6	This comet is circumpolar for many of
02-29	04h 29.2m	+51°12'	94°	9.8	us, and, like the previous two comets,
03-05	04h 46.6m	+52°05'	93°	9.9	it continues to fade from view. This
03-10	05h 04.5m	+52°45'	91°	10.1	will probably be the last month I'll
03-15	05h 22.8m	+53°13'	90°	10.3	carry positions for these three comets.
03-20	05h 41.3m	+53°29'	88°	10.5	They have each been impressive in
03-25	05h 59.9m	+53°34'	87°	10.7	their own way. Periodic Comet
03-30	06h 18.4m	+53°30'	85°	10.9	Borrelly will return in 1993.
04-04	06h 36.7m	+53°15'	83°	11.0	

## Comet Liller (1988a)

02-24	00h 12.6m	+02°45'	30°	8.0	This comet remains in our evening sky
02-29	00h 16.4m	+06°35'	28°	7.8	until early April. Until then Northern
03-05	00h 20.5m	+10°31'	26°	7.5	Hemisphere observers will be able to
03-10	00h 24.7m	+14°34'	25°	7.3	follow it despite small elongations.
03-15	00h 29.2m	+18°44'	25°	7.1	Look for it shortly after twilight, low
03-20	00h 34.1m	+23°03'	25°	6.9	in the western sky. By mid-April,
03-25	00h 39.5m	+27°32'	27°	6.8	Comet Liller will be up all night.
03-30	00h 45.6m	+32°11'	29°	6.7	During March and April it should dis-
04-04	00h 52.8m	+37°02'	32°	6.6	play a tail pointed northward.

## SEEKING COMETS

I had mentioned last month that press coverage for a comet discovery lasts only a few days. That is not always the case. William Bradfield, who became the century's Number One comet hunter with his thirteenth find last Aug. 11, is still being interviewed, photographed and asked to give speeches.

There is nothing in the hobby of comet hunting which trains the comet hunter to face the press. Some are able to verbally explain their hobby well. Others, and I'm one of them, are a bit shy of the camera and microphone. Following a comet discovery, I spend a fair amount of time mentally preparing for some of these questions:

Most-asked question: "With all the big observatories in the world, how is it that you found this comet and they didn't?"

Second most-asked question: "What is a comet?"

Third most-asked question: "Is the comet going to get brighter?"

Fourth most-asked question: "How did you get started in this hobby?"

Dumbest question: "What significance does this comet discovery play in world affairs?"

Most unexpected question: "Did your girlfriend break up with you because you spent too much time looking at the stars?"

## AN OVERVIEW OF OBSERVING SITES BY: DON MACHHOLZ AND RICH PAGE



Mt. Hamilton Rd., also known as Hwy. 130, winds past Grant (Ranch) County Park and up past Lick Observatory. What kind of observing sites do we find between the Park and the Peak? We found that the Peak is closed to amateurs, but you can get permission to observe from both the western and eastern slopes of the mountain.

Grant Ranch Park was reviewed here last July. From here you drive 10.8 miles up Mt. Hamilton Rd. to Lick Observatory. Along the way you'll find numerous turn-outs, most of these are small and not shielded from car lights. Kincaid Rd., 5.7 miles past the Park, is narrow and has fairly high horizons—one place we'd consider is quite small, down this road 1.2 miles. But we suggest you avoid this road and aim for the Peak.

Perhaps the best place to observe from is the large lot known as "The Brickyard". It is 9.3 miles past the Park and 1.5 miles before you get to Lick. It's located on the left side of the road, and consists of a large lot measuring 250' by 150'. The surface is hard packed dirt, level, but with some depressions will fill with water after a rain. A line of trees runs along the north, this cuts off about 20 degrees. There are some trees to the W. and S., you can usually work around these for viewing specific objects. To the east you see Lick Observatory; this is about 15 degrees high and 0.5 air miles away.

From the Brickyard you can see city lights, they are at least six miles away, but stretch from the north through the west and to the south. The light pollution is moderate up to 20 degrees high in the NW to SSW. This elevation, 3690', is usually above the inversion layer so the haze and (occasional) fog below can give you a first-class night. It can get windy here with dry, blowing dust a problem.

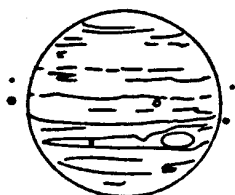
Lick Observatory, sitting at 4209', is closed to the public after 5 PM. But Hwy 130 is open, so keep driving over the top and down the other side. Here the Lick property extends another 2.2 miles, ending near a turnout with a "wagon wheel" gate to a side road, elevation here is 3785'. (Hwy. 130 continues past this to the Central Valley and Livermore, but you lose elevation quickly.) Along these 2.2 miles you'll find four turnoffs offering a variety of horizons and wind patterns. These offer perhaps the darkest skies in the county.

If you intend to use the Brickyard, the sites on the far side, or anywhere on Lick property (running from 4.8 miles west of the Peak to 2.2 miles east) call them in advance (408-274-5062 anytime) to let them know that you'll be there. The area is patrolled by a security person and they favor advance notice.

Several more observing sites are in this area. The Halls Valley Astronomy Group (the astronomical branch of "Friends of Grant Ranch") is a club you can join for the cost of \$3.00 and 50 hours of work a year. Members have access to areas in the park normally closed to the public. One such site is along Smith Creek Ridge, a fire road 3.3 miles past the Park gate. For information about joining, or to here more about the observing site they are building in the

park, call Ron Brickmont (408-287-9486)

## GREAT RED SPOT BY: JIM VAN NULAND



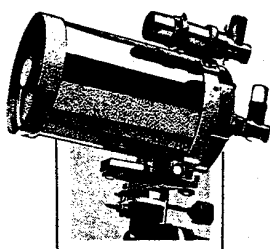
With the earlier Jupiter-set and later sunset, the Spot-watching season ends with March. The planet will be visible in the evening sky through April, but will be too low for beneficial observation at higher magnifications. So this column will take a vacation, to concentrate on other things, until September or so. My thanks to those who told me of their own observations.

On Feb. 5th, the Spot was a definite orange, more so than for many years! The dark material surrounding the Spot is less distinct to the south, but the dent in the South Equatorial Belt is distinct, so the Spot is easy to find.

At the tabular time, the Spot faces directly toward Earth, and thus appears central on the apparent disk of the planet. Observations may be made for about an hour before and after that time, darkness and elevation permitting. I've widened the selection limits to include some event for which Jupiter will be rather low, when seeing may be a problem, to allow last-ditch efforts. Good luck!

### Great Red Spot on Meridian PST

da	mo	d	h	m	da	mo	d	h	m	da	mo	d	h	m
W	3	2	8	24	pm	Sa	3	12	6	44	pm	Th	3	24
M	3	7	7	34	pm	Sa	3	19	7	38	pm	Tu	4	5



## 1988 MESSIER MARATHON BY: DON MACHHOLZ

A new moon on March 17 offers us a fine opportunity for this year's Messier Marathon. This year the weekend night of March 19/20 is best placed for the Marathon. If there is clear weather, I'll be at Uvas Res., a site reviewed here last month. I invite you to join me. You can "marathon" from one of several sites. In the past we've tried Loma Prieta, but that is now closed to the public. Grant Ranch Park and Fremont Peak are both good sites. The "Brickyard", near Lick Observatory, has good potential too.

Because of the locations of the galaxies, clusters and nebulae in Charles Messier's Catalog, mid-March through early April is the best time to hold the dusk-to-dawn observing session. Between March 5 and 20, 109 of the 110 objects can be seen, with only M30 missing. From our latitude, we lose M74 around March 21, meaning we'll see 108 objects until March 30. On March 31 we can pick up M30 in the morning sky, this gives us 109 objects again. After April 3 we lose several objects in the evening sky, decreasing the count. Observers in the southern United States may be able to observe all 110 of the Messier Objects, from our latitude the limit seems to be 109. Other factors include the moon phase, which can't be too bright, and picking a weekend, since we're usually awake all night long.

The SJAA began the Marathon in March 1979, and we've been holding it every year since then. In some years the moon has given us trouble, while sometimes the weather fails us. Many other active clubs across the nation also "Marathon".

Contact me for observing order sheets which can be used with almost any star chart. And after the Marathon, please let me know how it went.

# SJAA 1987/1988 MEMBERSHIP ROSTER

GEORGE	LECHNER	389 SPOSITO CIRCLE	SAN JOSE	CA 95136	ANN LOUISE	PENCE	1071 FUCHSIA DRIVE	SUNNYVALE	CA 94086-8347
HARRY O.	LEITNER	425 HAZELWOOD DRIVE	SOUTH SAN FRANCISCO	CA 94080	EDWARD	PERRY	345 INDIAN BROOM DR	SAN JOSE	CA 95111
THOMAS	LEO	132 MAGNESON TERRACE	LOS GATOS	CA 95030	JOE	PETERSEN	1300 CAPRI DRIVE	CAMPBELL	CA 95008
PHILIP	LIEU	195 BUTLER STREET	MILPITAS	CA 95035	JACK	PHILLIPS	1840 YOSEMITE DRIVE	MILPITAS	CA 95035-6621
DAVID A.	LIST	5829 LAGUNA SECA WAY	SAN JOSE	CA 95123	WILLIAM B.	PHILLIPS	3809 MIDDLEFIELD RD	PALO ALTO	CA 94303
JAMES L.	LOHMAN	778 COFFEWOOD CT	SAN JOSE	CA 95120	SANDRA	PICCARDO	2625 SOMMA PLACE	SANTA CLARA	CA 95051
ALOYSIUS	LONG	344 2ND LANE	SOUTH SAN FRANCISCO	CA 94080	MICHAEL	PIINI	1382 SPOONBILL	SUNNYVALE	CA 94087
JOSEPH	LONGO	12221 VIEWOAK DRIVE	SARATOGA	CA 95070	ERNEST W.	POOLY	1356 LONGFELLOW WAY	SAN JOSE	CA 95129
JIM	LOOS	13680 ROSSMORE COURT	SARATOGA	CA 95070	CHUCK	POORHAN	2341 DORVAL DRIVE	SAN JOSE	CA 95130
ART	LUMLEY	8158 WHITED ROAD	SEBASTAPOL	CA 95472	MIKE	POULOS	1842 PERRONE CIRCLE	SAN JOSE	CA 95116
DON & LAURA	MAHANY	5234 CAMDEN AVENUE	SAN JOSE	CA 95129	DAVE	PURA	1200 DALE AVENUE #72	MOUNTAIN VIEW	CA 94040
PAUL	MAHANY	5090 BELA DRIVE	SAN JOSE	CA 95129	ERNEST S.	PYER	2211 ARLEEN WAY	SAN JOSE	CA 95130
ROBERT S.	MALM	299 LANGTON AVENUE	LOS ALTOS	CA 94022	DONALD R.	QUIGNON	4158 ROSENBAUM	SAN JOSE	CA 95136
PAUL	MANCUSO	1665 ARIZONA AVENUE	MILPITAS	CA 95035	CHUCK	RAHILLER	1309 KARMEN COURT	SANTA CLARA	CA 95051
ROLAND C.	MANGAN	1755 PINE HOLLOW CIR	SAN JOSE	CA 95133	RICHARD D.	RANDS	1018 HARLAN COURT	SAN JOSE	CA 95129
MARTIN	MANLEY	1939 MONTEMAR WAY	SAN JOSE	CA 95124	FRED	RAPPAPORT	236 MANLEY COURT	SAN JOSE	CA 95139
CHARLES F.	MANLEY JR.	14896 HEATHER DRIVE	SAN JOSE	CA 95139	GERALD W.	RATTLEY	5 S. PUEBLO ST	GILBERT	AZ 85234
PETER L.	MANLY	1533 W 7TH STREET	TEMPE	AZ 85281	MATT	REBOLZ	111 BELWOOD GATE WAY	LOS GATOS	CA 95030
JACK	MARLING	891 LAGUNA STREET	LIVERMORE	CA 94550	JOHN D.	RHODES	18312 NE 25TH STREET	VANCOUVER	WA 98684
GARY N.	MARROTT	3363 METHILHAVEN LN	SAN JOSE	CA 95121	THOMAS	RIVERA JR.	1328 OLD PARK PLACE	SAN JOSE	CA 95132
BOB	MATSON	1108 HOLMES AVENUE	CAMPBELL	CA 95008	CONNIE M.	ROBERTSON	47463 FERNALD STREET	FREMONT	CA 94539
MARK A.	MATTOX	400 E REMINGTON A103	SUNNYVALE	CA 94086	DAVID	ROE	3398 CREIGHTON PLACE	SANTA CLARA	CA 95051
LEONARD	MATULA	P.O. BOX 487	SAN JOSE	CA 95139	PHYLLIS	ROSE	620 NORTH TENTH ST.	SAN JOSE	CA 95112
S.	MC ALEESE	P.O. BOX 28387	SANTA CLARA	CA 95050	NORMAN	ROSENBLATT	18255 PEET ROAD	MORGAN HILL	CA 95037
JOHN W	MC CLELLAND	444 JEFFERSON STREET	SARATOGA	CA 95070	WAYNE	ROSING	18716 FAURE RIDGE RD	LOS GATOS	CA 95030
JOHN L.	MC COLLUM	19810 MERRIBROOK DR	LOS GATOS	CA 95030	JAMES P.	ROTH	1670 VALLEJO DRIVE	HOLLISTER	CA 95023
WILLIAM F	MC CORMACK	15435 BLACKBERRY HILL	SUNNYVALE	CA 94086	ROBERT	RUSSO	1001 STOUT COURT	FREMONT	CA 94539
KIM	MC KELVEY	684 S GARLAND TERR	OAKLAND	CA 94611	MICHAEL T	RYAN	3785 PINEWOOD PLACE	SANTA CLARA	CA 95054
KEVIN & DENNI	MEDLOCK	15022 BROADWAY TERR	SANTA CLARA	CA 95020	THOMAS W.	SALINAS	C/O C HOULE PO BOX 3141	SAN JOSE	CA 95156
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ROBERT	MILLER	3060 DRYDEN AVENUE	NEWARK	CA 94560	MARY W.	SCHIFFMAN	41352 ELLEN STREET	FREMONT	CA 94538
RITA	MIRAM	7744 HAZELNUT PLACE	SAN FRANCISCO	CA 94114	WALTER J	SCHINDORF	22449 CUPERTINO ROAD	CUPERTINO	CA 95014
ROGER	MITCHELL	123 VILLA TERRACE	CUPERTINO	CA 95014	RICHARD A	SCHONERT	472 CENTRE COURT	ALAMEDA	CA 94501
JAMES R.	MOLINARI	8149 PARK VILLA CIR	SAN JOSE	CA 95119	ROBERT T	SCOTT	3200 PAYNE AVE #116	SAN JOSE	CA 95117
AL	MOLNAR	6476 CEBU COURT	LOS GATOS	CA 95030	ROBERT M	SHEAFFER	2574 FAIRGLEN DRIVE	SAN JOSE	CA 95125
BYRON	MONROE	14380 E LA CHIQUITA	SAN JOSE	CA 95136	THOMAS P	SHOENAKER	16230 DEODAR LANE	MONTE SERENO	CA 95030
JAMES O.	MOORE	3217 GOLDRIDGE COURT	SAN JOSE	CA 95135	JOSEPH B	SHROCK	104 GLEN EYRIE #14	SAN JOSE	CA 95125
MICHAEL W.	MOORE	350 WAYLAND STREET	SAN FRANCISCO	CA 94134	FRED	SIEDOW	2040-30 MIDDLEFIELD	MOUNTAIN VIEW	CA 94040
RICHARD G.	MOSHIER	622 TROQUOIS COURT	SAN JOSE	CA 95123	BRUCE	SINCLAIR	1286 STAYNER ROAD	SAN JOSE	CA 95121
DONN F	MUKENSIVABLE	11391 ENCHANTO VISTA	SAN JOSE	CA 95127	DOUG	SNYDER	1839 ASHMEADE COURT	SAN JOSE	CA 95125
GREGORY J	MUNRO	945 BRANHAM LANE	CUPERTINO	CA 95014	NORM	SPERLING	3130 WOODMONT DRIVE	SAN JOSE	CA 95118
ANTONIO	MUSHIAL	10870 N STELLING 27H	SAN JOSE	CA 95132	BART	STAFFORD	22450 SUMMIT ROAD	OAKLAND	CA 94618
RICARDO	NEGRETTE	921 PONDEROSA AVE 73	CAMPBELL	CA 95008	M.P.	STANLEY	20585 CARNIEL AVENUE	LOS GATOS	CA 95030
NORMAN	NEINCHER	190 ROSE COURT	NEWARK	CA 94560	RICHARD	STANTON	550 CATHEDRAL DRIVE	SARATOGA	CA 95070
MICHAEL J.	O'BRINE	5903 WOODBINE PLACE	SANTA CLARA	CA 95050	THOMAS	STAVOLONE	392 ANN DARLING DR	APTOS	CA 95003
JAMES B	O'HARA	1456 LOS PADRES	SAN JOSE	CA 95128	STEVEN & DIANA	STEPS	4949 ENGLEWOOD DRIVE	SAN JOSE	CA 95133
ALAN	PAULA	3049 GREENTREE WAY	SAN JOSE	CA 95124	EDWIN R	STOKKE	5677 ROTTERDAM LANE	SAN JOSE	CA 95129
RICHARD	PAGE	14896 STANDISH DRIVE	SANTA CLARA	CA 95051	DONALD	STONE	731 CAMINO RICARDO	MORAGA	CA 94556
LAWRENCE	PAGENDARM	726 ASBURY PLACE	SAN JOSE	CA 95129	PAUL	SUNNERS	2289 DATOHO DRIVE	SAN JOSE	CA 95130
BEN	PANG	5209 SHADY AVENUE	SAN JOSE	CA 95129	JOSEPH	SUNNERS	3915 SEVEN TREES BLVD	SAN JOSE	CA 95111
DAVID F.	PARKER	1710 SILVER MEADOW	SAN JOSE	CA 95040	MARIA	SYE	16945 ROBERTS RD #17	LOS GATOS	CA 95030
THOMAS H.	PARKER	2142 UNIVERSITY AVE	MOUNTAIN VIEW	CA 94040	ALLEN	TAKAHASHI	5916 ORCHARD AVENUE	RICHMOND	CA 94804
LAWRENCE W.	PARMETER	75 N MONROE ST. #16	SANTA CLARA	CA 95070	JOHN J	THEODORE	3625 WOODLEY DRIVE	SAN JOSE	CA 95148
VINCE & DEANNE	PEDORA	P.O. BOX 2426	SARATOGA	CA 95070	DR. ROBERT	THERIKELSEN	2941 PLEASURE FT DR	SANTA CRUZ	CA 95062
STEPHEN	PEWNIICH	5334 APPLE BLOSSOM	SAN JOSE	CA 95123					



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ROLAND C.	MANGANO	1665 ARIZONA AVENUE	MILPITAS	CA 95035	DONALD R.	QUIGDON	4158 ROSENBAUM	SAN JOSE	CA 95051
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BOB	MARROTTE	3363 METHILHAVEN LN	SAN JOSE	CA 95121	JOHN D.	RHODES	18312 NE 25TH STREET	SAN JOSE	CA 95132
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S.	MATULA	P.O. BOX 487	SAN PABLO	CA 94611	DAVID	ROEMER	3398 CREIGHTON PLACE	SAN JOSE	CA 95112
JOHN W	MC ALEESSE	P.O. BOX 28587	SAN JOSE	CA 95050	PHYLLIS	ROSE	420 NORTH TENTH ST.	MORGAN HILL	CA 95037
JOHN L.	MC CLELLAND	444 JEFFERSON STREET	SANTA CLARA	CA 95070	NORMAN	ROSENBLATT	18255 PEET ROAD	LOS GATOS	CA 95030
WILLIAM F.	MC COLLUM	19810 MERRIBROOK DR	SARATOGA	CA 95030	WAYNE	ROSING	18716 FAURE RIDGE RD	HOLLISTER	CA 95023
KIM	MC CORMACK	15435 BLACKBERRY HILL	LOS GATOS	CA 94086	JAMES P.	ROTH	1670 VALLEJO DRIVE	FREMONT	CA 94539
KEVIN & DENNI	MC KELVEY	484 S GARLAND TERR	SUNNYVALE	CA 94611	ROBERT	RUSSO	1001 SIOUX COURT	SAN JOSE	CA 95054
DAVID & JILL	MEDLOCK	15022 BROADWAY TERR	OAKLAND	CA 95051	MICHAEL T	RYAN	3785 PINEWOOD PLACE	SAN JOSE	CA 95156
ROBERT	MILLER	3312 DUKE COURT	SANTA CLARA	CA 95020	FRANCISCO	SALINAS	C/O C HOULE PO BOX 3141	SALINAS	CA 93905
RITA	MIRAM	3040 DRYDEN AVENUE	GILROY	CA 94560	RICK	SAMARATI	706 CIRCLE DRIVE	FREMONT	CA 94538
JAMES R.	MITCHELL	7784 HAZELNUT PLACE	NEWARK	CA 95014	MARY W.	SARRICA	41352 ELLEN STREET	CUPERTINO	CA 95014
AL	MOLINARI	123 VILLA TERRACE	SAN FRANCISCO	CA 94114	WALTER J	SCHIEFFMANN	22449 CUPERTINO ROAD	ALAMEDA	CA 94501
BYRON	MOLNAR	8149 PARK VILLA CIR	CUPERTINO	CA 95119	RICHARD A	SCHONERT	472 CENTRE COURT	SAN JOSE	CA 95117
JAMES O.	MONROE	6476 CEBU COURT	SAN JOSE	CA 95030	ROBERT T	SCOTT	3200 PAYNE AVE #116	MONTE SERENO	CA 95125
MICHAEL W.	MOORE	3217 GOLORIDGE COURT	SAN JOSE	CA 95135	ROBERT M	SHEAFFER	16230 DEODAR LANE	SAN JOSE	CA 95030
RICHARD G.	MOORE	350 WAYLAND STREET	SAN FRANCISCO	CA 95123	THOMAS P	SHOENAKER	104 GLEN EYRIE #14	MOUNTAIN VIEW	CA 94040
DONN F	MUKENSABLE	11391 ENCHANTO VISTA	SAN JOSE	CA 95127	JOSEPH B	SHROCK	2040-30 MIDDLEFIELD	SAN JOSE	CA 95121
DUNCAN/SCHARLENE	MUNRO	943 BRANHAM LANE	SAN JOSE	CA 95136	FRED	SIEDOW	1286 STAYNER ROAD	SAN JOSE	CA 95125
GREGORY J	MUSHTAL	10870 N STELLING 27H	CUPERTINO	CA 95014	BRUCE	SINCLAIR	1839 ASHMEADE COURT	SAN JOSE	CA 95118
ANTONIO	NAFARRATE	1040 TERRA NOBLE WAY	SAN JOSE	CA 95132	DOUG	SNYDER	3130 WOODMONT DRIVE	OAKLAND	CA 95030
RICARDO	NEGRETTE	921 PONDEROSA AVE 73	SUNNYVALE	CA 94086	NORM	SPEERLING	22450 SUMMIT ROAD	LOS GATOS	CA 95070
NORMAN	NETCHEL	190 ROSE COURT	CAMPBELL	CA 94560	BART	STAFFORD	20585 CARNIEL AVENUE	SARATOGA	CA 95003
MICHAEL J.	O'BRIEN	5903 WOODBINE PLACE	NEWARK	CA 95050	M.P.	STANLEY	550 CATHEDRAL DRIVE	SAN JOSE	CA 95133
JAMES B	O'HARA	1456 LOS PADRES	SANTA CLARA	CA 95128	RICHARD	STAVOLONE	392 ANN DARLING DR	SAN JOSE	CA 95129
ALAN	PADULA	3049 GREENTREE WAY	SAN JOSE	CA 95124	THOMAS	STEPS	4949 ENGLEWOOD DRIVE	SAN JOSE	CA 95118
RICHARD	PAGE	14896 STANDISH DRIVE	SAN JOSE	CA 95129	EDWIN R	STOKKE	5677 ROTTERRAM LANE	MORAGA	CA 94556
LAWRENCE	PAGENDARM	724 ASBURY PLACE	SANTA CLARA	CA 95050	DONALD	STONE	731 CAMINO RICARDO	SAN JOSE	CA 95131
BEN	PANG	5209 SHADY AVENUE	SAN JOSE	CA 95121-1951	PAUL	SUMMERS	2289 DATORO DRIVE	SAN JOSE	CA 95030
DAVID F.	PARKER	1710 SILVER MEADOW	SAN JOSE	CA 94040	JOSEPH	SUNSERI	3915 SEVEN TREES BLVD	LOS GATOS	CA 94804
THOMAS H.	PARKER	2142 UNIVERSITY AVE	MOUNTAIN VIEW	CA 95050	MARIA	SYE	16945 ROBERTS RD #17	RICHMOND	CA 95148
LAWRENCE W.	PARKETER	75 N MONROE ST. #16	SANTA CLARA	CA 95070	ALLEN	TAKAHASHI	3625 WOODLEY AVENUE	SAN JOSE	CA 95062
VINCE & DEANNE	PECORA	P.O. BOX 2426	SARATOGA	CA 95123	JOHN J	THEODORE	2941 PLEASURE PT DR	SANTA CRUZ	
STEPHEN	PEMANICH	5334 APPLE BLOSSOM	SAN JOSE		DR. ROBERT	THERIKELSEN			

PAUL E	TREJO	2750 ALDORTH DRIVE	SAN JOSE	CA 95148
JAMES	VAN NULAND	3509 CALICO AVENUE	SAN JOSE	CA 95124
FRANK	VANSLAGER	7213 RAINBOW DR #A14	SAN JOSE	CA 95129
CHUCK	VAUGHN	4387 OTHELLO DRIVE	FREMONT	CA 94555
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DONALD	WALLACE	387 HEDGE ROAD	MENLO PARK	CA 94025
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ROBERT P	WOLBERT	3534 PINE CREEK DR	SAN JOSE	CA 95132
JOHN A	WOOD III	5367 GARRISON CIRCLE	SAN JOSE	CA 95123-2116
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JOHN D	WRIGHT	2858 STEVENS CREEK #202	SAN JOSE	CA 95128
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JACK	ZEIDERS	5543 EAGLES LANE #2	SAN JOSE	CA 95123

#### Astronomy clubs, stores, schools

ANTELOPE VALLEY ASTRO. CLUB	(R. ADAMS)	LANCASTER	CA 93534
ASTRO SOC OF PACIFIC	(ANDY FRANKNOI)	SAN FRANCISCO	CA 94122
ASTRONOMY MAGAZINE	(ROBERT BURNHAM)	MILWAUKEE	WI 53202
CENTRAL VALLEY ASTROS.	(CLARENCE FUNK)	FRESNO	CA 93727
CHABOT SCIENCE CENTER	4917 MOUNTAIN BLVD.	OAKLAND	CA 94619
CHINA LAKE ASTRO. SOC	P. O. BOX 1783	RIDGECREST	CA 93555
COLUMBIA COMMUNITY SCHOOL	830 W. MC KINLEY AVE	SUNNYVALE	CA 94086
FREMONT PEAK STATE PARK	(RICK MORALES)	SAN JUAN BAUTIS	CA 95045
FRIENDS OF GRANT RANCH	(R. BRIMONT)	SAN JOSE	CA 95126
LICK OBSERVATORY	(W.J. SHILOH UNRUH)	MOUNT HAMILTON	CA 95140
LICK OBSERVATORY, NAT. SCI 11	U. C. SANTA CRUZ	SANTA CRUZ	CA 95064
MINOLTA PLANETARIUM	21250 STEVENS CREEK	CUPERTINO	CA 95014
MISSION (LEAS) COLLEGE	3000 MISSION COLLEGE	SANTA CLARA	CA 95054
ODD ASSORTMENT, THE	(JOEN DURDEN)	PACHECO	CA 94553
ORION TELESCOPE CENTER	BOX 1158	SANTA CRUZ	CA 95061
ORION TELESCOPE CENTER	10555 DE ANZA BL#105	CUPERTINO	CA 95014
PENINSULA ASTRO. SOC.	(CRAIG WOLLAN)	SAN JOSE	CA 95117
PENINSULA SCIENTIFIC	2185 PARK BLVD.	PALO ALTO	CA 94306
POLARIS OBSERV ASSOC	(RAY COUTCHIE)	WOODLAND HILLS	CA 91364
ROSTICUCIAN PLANETARIUM	(JUDY WARREN)	SAN JOSE	CA 95126
SAN FRANCISCO AMATEUR ASTROS	CA ACADEMY OF SCIENCES	SAN FRANCISCO	CA 94118
SAN MATEO ASTRONOMICAL SOC	PO BOX 974 STATION A	SAN MATEO	CA 94403
SANTA CRUZ ASTRONOMICAL CLUB	L-2 VILLA SAN CARLOS	SANTA CRUZ	CA 95065
SKY & TELESCOPE	(DENNIS DI CICCO)	CAMBRIDGE	MA 02232-1290
STANFORD UNIVERSITY	DEPT OF PHYSICS	STANFORD	CA 94305
STOCKTON ASTRO SOCIETY	P.O. BOX 243	STOCKTON	CA 95201
TAMALPIAS ASTRO SOC.	(RALPH PARLETTE)	MILL VALLEY	CA 94941
WESTERN AM ASTRONOMERS	(JOHN SANFORD)	ORANGE	CA 92667

## GENERAL MEETINGS

The Red Cross building is located at 18011 Los Gatos-Saratoga Rd. From Hwy 17 take the Hwy 9 (Saratoga) exit and continue west up the Los Gatos-Saratoga road for about 0.6 miles. Turn right at Rose Ave. Then turn right immediately into the parking lot of the Post Office and Red Cross building. Doors open at 7:45 PM, with General meetings beginning at 8 PM. General Meetings are currently held on the 1st Saturday of each month.

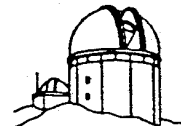
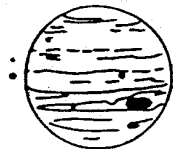
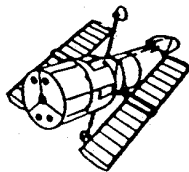
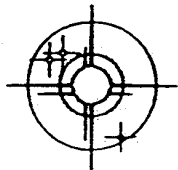
Occasionally there are a few Saturday evenings set aside for informal gatherings of amateur astronomers to share their common interest in astronomy, to "talk shop", or to simply enjoy the company of friends. Members are encouraged to bring in telescopes and accessories to share with the group. Typically there will be several telescopes operating in the parking lot or there will be a slide show of recent astrophotography and star party events in progress in the meeting hall. The SJAA also holds its board meetings during this time as well as an introductory astronomy workshop that is conducted once a month.

On the Saturdays closest to the New Moon, the SJAA will conduct a "Star Party" for astronomical observation at a designated location. Several times a year these star parties are held close to San Jose while others are held as far away as Yosemite national Park. Watch the EPHEMERIS for star party locations.

The most popular of locations for bay area amateur astronomers is Fremont Peak State Park. Located 70 miles south of San Jose near the town of San Juan Bautista, Fremont Peak rises nearly 3000 ft. above the valley floor. For two decades amateurs have gathered at the "Peak" during New Moon weekends for serious deep sky observing and astrophotography. To get to Fremont Peak for San Jose, take Hwy 101 south towards Salinas. Then take Hwy 156 east (San Juan Bautista exit) for 3 miles to a yellow flashing light. Turn right and go about 1/4 mile to where the road reaches a "Y". Veer left for about 25 yards and then go right. (Watch closely for the Fremont Peak sign) Follow the Canyon road for about 11 miles up into the park. The SJAA sets up in Coulter Camp. It's visible on your right as you first drive onto the main area of the park. Expect to find a lot of astronomical activity here every clear New Moon weekend. Arrive early if you are setting up equipment. 50 to 100 telescopes are not uncommon at Fremont Peak during the summer months.

BOARD OF DIRECTORS		
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* Jack Peterson.....	408-262-1457	
* Bob Fingerhut.....	408-263-4455	
* Tom Ahl.....	408-268-3927	
* Gene Cisneros.....	408-923-6800	
* Joe Sunseri.....	408-224-8693	
* Steve Greenberg.....	209-239-2154	
* Duncan Munroe.....	408-448-5361	

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## SAN JOSE ASTRONOMICAL ASSOCIATION MEMBERSHIP APPLICATION

MEMBERSHIP ONLY: \$10    MEMBERSHIP/S&T: \$26    JUNIOR (UNDER 18): \$18

Name: \_\_\_\_\_ Please bring this form to any SJAA meeting, or send to:

Address: \_\_\_\_\_  
\_\_\_\_\_  
Telephone (\_\_\_\_) \_\_\_\_\_

Jack Peterson, Treasurer  
San Jose Astronomical Association  
1840 Yosemite Dr.  
Milpitas, CA. 95035

MAKE CHECKS PAYABLE TO "SJAA"

Telephone: (408) 262-1457

Please check type of membership and if New or Renewal

Membership only\_\_\_ Membership/S&T\_\_\_ Junior (Under 18)\_\_\_ New\_\_\_ Renewal\_\_\_

SJAA EPHEMERIS  
3509 CALICO AVE.  
SAN JOSE, CA. 95124

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