SCRA INCOME AND EXPENSE STATEMENT as of 4/14/97

BEGINNING BALANCE

CHECKING	\$2,265.85
SAVINGS	\$942.81
CASH ON HAND	\$84.16
TOTAL	\$3,292.82

INCOME

ARRL Income	\$62.00
Badge Income	\$12.00
Initiation	\$18.00
Dues	\$883.00
Monthly Raffle	\$34.00
Refreshment Income	\$26.25
Transfer from Petty Cash	\$10.00
Savings Account Interest Received	\$5.55
TOTAL INCOME	\$1,040.80

EXPENSES

ARRL MEMBERSHIP	(\$56.00)
Badges, New Member	(\$9.67)
Badges, Replacement	(\$4.84)
OVERHEAD	
Officer's Expenses	(\$10.73)
Refreshment Expenses	(\$15.00)
REPEATER	
Maintenance	(\$100.00)
Phone	(\$41.53)
Short Skip Expenses	(\$87.08)
Transfer to Cash on Hand	(\$6.25)
TOTAL EXPENSES	(\$331.10)

BALANCE

	TOTAL CASH	\$4,008.77
	CASH ON HAND	\$80.41
	SAVINGS	\$948.36
٠	CHECKING	\$2,980.00

Vext Meeting: May ⊽

MINDSOB' CY 62462 274 MILD OAK DR BRECKENRIDGE, JOHN WB6FRZ

BULK RATE

SANTA ROSA, CA

PERMIT NO. 658

VDDKESS CORRECTION REQUESTED

Sonoma County Radio Amateurs, Inc. PO Box 116 Santa Rosa, CA 95402-0116



Short Skip



Club Station W6LFJ

Sonoma County Radio Amateurs, Inc. PO Box 116, Santa Rosa, CA 95402-0116

146.730MHz ● 224.48MHz ● 441.375MHz

Repeater Station WB6PVS

Yolume 22 #5

May 1997





We now have two bona fide rocket scientists in SCRA. John Breckenridge WB6FRZ and Alan Bloom N1AL have been involved in designing and building the Sun Sensor system on the upcoming Phase 3D (P3D) satellite to be launched by AMSAT. John designed and machined the sensor housing and Al did the electronics.

Back before Christmas, Herb Sullivan K6QXB, an electronics instructor at the Santa Rosa Junior College, attended the AMSAT annual meeting in Arizona where it was announced that P3D would need some way of determining the position of the sun. Herb must have never been in the Army, because he raised his hand and volunteered. At our first project meeting on Dec 9, we learned that the schedule called for "flight-ready" hardware to be fully assembled, tested, calibrated and shipped to AMSAT by Feb 1, 1997. Less than two months!

By the end of the project, 19 local radio amateurs and 4 non-hams had contributed in one way or another. A lot of work was accomplished in a very short time. Thanks to Hewlett Packard for PC board fabrication and providing many of the parts and tools for making both the electronics assembly, sensor housing and calibration fixtures. The Santa Rosa Junior College provided money for some expensive specialty components as well as testing facilities. Most of the people on the project were either HP employees or students or employees of the SRJC.

The Phase 3D Satellite

The last four issues of QST have contained articles on P3D, describing the orbit and the 10 different frequency bands you can use to talk through the bird. However, there were a couple topics they didn't cover.

Most satellites spin while they are in orbit. The gyroscopic effect helps to stabilize the bird's orientation. Spinning also helps with thermal regulation; otherwise the side facing the sun would get too hot and the side facing space (at around -270 degrees C) would get too cold.

However, P3D will be three-axis stabilized. That allows the antennas to point at the earth while the solar cells always point toward the sun. That also makes thermal management is a big issue, especially on a satellite this big. By using heat pipes to channel the heat where needed and paying close attention to reflectivity and emissivity, AMSAT engineers can obtain a fairly constant temperature throughout the bird. Pointing the satellite in the proper direction is the job of three internal "reaction wheels" (giant gyroscopes) oriented on the X, Y and Z axes. The on-board computer in the Internal Housekeeping Unit (IHU) can spin the reaction wheels faster or slower to cause the satellite to precess to the proper orientation.

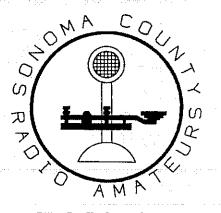
Why a Sun Sensor?

The Sun Sensor tells the IHU where the sun is, to help orient the spacecraft. This is not only for normal operation in the three- axis-stabilized mode, but also to orient the craft for rocket firings, so excellent accuracy is required.

The Sun Sensor uses a special-purpose photocell from Hamamatsu Photonics Co. called a "Position-Sensitive Detector" (PSD). Our sensor housing acts as a pinhole camera, so the sun forms a small spot of light on the surface of the PSD. The PSD has four electrical contacts, two that determine the spot's position along the X axis and two for the Y axis. Our electronics assembly converts the currents from the four contacts into a pair of voltages that represent the sun's position in the X and Y directions. These signals are sent to an analog-to-digital converter (ADC) in the IHU for processing.

(continued on page 5)

	JEFICERS .	F OR 1 997	
PRESIDENT:	Steve Carniglia	KV6A	546-7370
VICE PRESIDENT:	Rick Reiner	., K6ZWB	575-4455
SECRETARY:	Steven Feil	KD6CJR	579-8346
TREASURER:	Joel Nadler	KJ6LF	545-1782
MEMBERS-	Bill Hillendahl.	KH6GJV	538-0331
AT-LARGE:	Claude Jones	AB6OL	527-8593
		KD6CJQ	
ACTIVITIES CHAIR:		KD6KWM	
S	SHORT SKI	P STAFF	, , , , , , , , , , , , , , , , , , ,
EDITOR:	Claude Jones	AB6OL	527-8593
(submissions) 🕶	3612 Banyan St	reet, Santa Rosa, CA 954	03-1557
	E-mail	ab6ol@cds1.net	7
	Fax	938-4772	
ASSOCIATE EDITOR:	Shirley Jones	KD6PKA	
CIRCULATION:			
AUDIO TAPING:	John Breckenrid	ge WB6FRZ	
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		N6RMW	
MITTER ATTACK PINTERS	Continued to the control of the state of the control of the contro	ting the control of t	539-2701



MAY 1997

Club Meetings

7:30 pm on the 1st Wednesday each month at the Hewlett-Packard plant in Santa Rosa. (See map below) All are welcome.

TUESDAY NIGHT NET

Check into the Tuesday night SCRA net on the 146.73 repeater at 7PM. You will hear the latest Amateur Radio Newsline broadcasts, announcements of SCRA activities and a Swap Shop.

SCRA HOTLINE 707-579-9608 WWW http://cdsl.net/scra

Next Meeting: May 7 Program: High Voltage Safety by PG&E

We invite you to attend our next monthly meeting (see below). Membership in SCRA is open to anyone interested in Amateur Radio. If you would like to join there is a membership analysis and the second of the secon Radio. If you would like to join, there is a membership application in this issue.

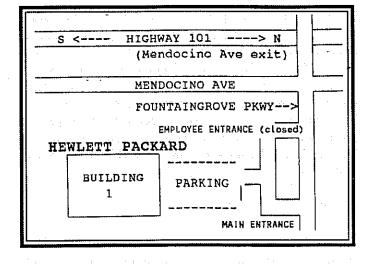
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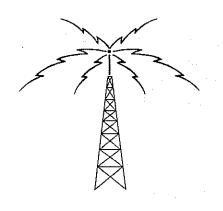
Guaranteed circulation: 200/month



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Activities Committee: Public Service Marie Mappus KI6QY 664-1978 Assistant Pub, Serv.... John Breckenridge..... WB6FRZ 838-6398 Public Relations Steve Carniglia KV6A 579-9608 QSL Mgr Fred Leoni N6YEU 431-8202 TVI/RFI Al Bloom NIAL 538-7115 Antennas Lee Dibble KE6EAQ . . 544-1675 Awards Steve Lund K6UM 823-4544 RACES RO Eran Glago KD6KVO ... 996-1153 Field Day Steve Carniglia AT6A 579-9608 Education Greg Gordon AC6VJ 523-7077 VEC Exams Bill Kinder KO6ZG 894-9591 Badge Chair Fred Leoni N6YEU 431-8202 Refreshments Ted De Croff KB6PTA Raffle at meetings ... Ken Harrison ... N6MHG Membership lottery ... James Cureton ... KD6GSF Packet BBS Jim Andrews KC6PJW ... 795-2163

SHORT SKIP



Repeater Control Op's

Kelly KD6CJQ	837-9434
Hoppy WD6CKP	542-6750
Steve KV6A	579-9608
Jim N6PTM	823-7947
Merl N6VUC	584-3898
Ken N6MHG	539-2701

() No

Application for membership in SCRA

ivanieCa	llsign License Class
Address Photographic Phot	one Date
SCRA Dues: The renewal date for SCRA dues is March 1s. The new nember initiation (badge) fee is \$6/person. Dues for rand \$2.25/month for families, starting at renewal time.	E-mail () New () Renewal to Dues are \$18/year for individual and \$27/year for families new members only are prorated at \$1.50/month for individual
ARRL dues: \$31/year, \$25 over 65 with proof of age. (Un	
Make checks p	ayable to SCRA
WOULD LIKE MORE INFORMATION ABOUT: () Public Service Events () RACES or ARES Emergency Services () Taking a Novice or Technician class () Teaching a Novice or Technician class () Taking an upgrade class () Teaching an upgrade class () Helping with SCRA Flea Market () Acting as club Net Control Station () Helping with VEC license exams () Field day, other operating events () Helping with Short Skip Newsletter () Other	SCRA Dues: Individual \$18, Family \$27 +

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Kenwood TS-530S HF Transceiver 160-10M WARC w/mic, spare finals. \$500. MFJ-949E antenna tuner. Gap Vertical HF antenna - Challenger DX - Special package deal price: \$600. Contact Mike, KF6ALB @ 415-359-3793

Yaesu FT-101E w/ VFO, YC-601 digital display and scope. \$525. Hallicrafter Receiver. Model S38B. \$100. Realistic DX300 Shortwave Receiver. \$80. Contact Joe, KO6PS @ 707-546-6839

Yaesu FT-2400, 50 Watt 2m Mobile. \$225. Homebrew 2m Base Antenna & Cushcraft R5 HF vertical base antenna. \$200. Contact Marie, KI6QY @ 707-664-1978

WANTED

Vibroplex Deluxe Blue Racer bug. Must have the narrow chrome base. Contact Sam, WN6W @ 707-575-0400 or email: sbrewer@prodigy.net

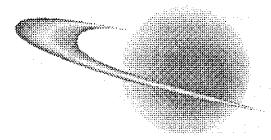
Space Vehicles

by Bill Waters AC6MA

For brief description of the various types of space vehicles mentioned in the April "Satellites" article, consider the following:

☼ Reconnaissance satellites are usually low-altitude or synchronous-altitude orbiters; their purpose is to take pictures, or to monitor radio transmissions originating from earth stations, or to watch for rocket launches (using infra-red sensors, usually), or to conduct radar mapping of the earth's surface.

- ☼ Research satellites measure all kinds of things, mostly of interest to scientists
- ☼ Communications satellites relay signals between points on the earth's surface, including telephone conversations, television, raw data, newspaper articles and ads, military traffic, etc. The more elaborate "commsats", as they are called, contain numerous very sophisticated transponders -- essentially broadband repeaters. Some have the incredible useful bandwidth of over 2 GHz (2,000 MHZ)!
- ☼ For more than the past 25 years there have existed a number of low-altitude satellites (both US and Russian, for the most part) used primarily for ship navigation on the high seas, or for emergency location of both maritime and land-based travelers. Recently the Global Positioning System has become fully operational on a worldwide basis (Short Skip, April 1995) and is rapidly replacing many previous radio navigation aids; GPS uses a constellation of 24 or 25 satellites in orbit about 12,000 miles above the earth.
- ☼ Much of the world has become very dependent on the various monitoring functions routinely performed by weather satellites; these keep an eye on such things as cloud cover, movement of storms, surface conditions of the sea (using radar), and atmospheric temperatures (using some incredibly clever sensing devices!)
- What could be more fascinating or beautiful than the images gathered by the Hubbell Space Telescope? Or the pictures of an actual volcanic eruption on Jupiter's small moon Io? Or pictures of the far side of the moon? Or of the surface of Mars? Or of surface markings on Pluto. Or the seething, boiling complexity of the clouds and bands around Jupiter? Or the ---- need I say more about astronomical satellites?
- Description Life Support vehicles started when, in 1958, the Russians put the poochy dog Laika into space, using a sputnik satellite. This satellite type includes such vehicles as Gemini, Apollo, Skylab, the Russian Mir, and the Space Shuttle. The jury is still out on the subject of whether or not man is useful enough in space to justify the enormous cost and complexity required to keep him there -- it depends largely on your own personal conclusions --, but there is no question about the tremendous human interest and excitement involved.



SCRA MINUTES

April 2, 1997

SHORT SKIP

Submitted by Secretary Steven Feil KD6CJR



The April 1997 meeting was called to order by President Steve Carniglia KV6A at 7:35 PM at HP Fountain Grove. Other officers present were: Vice President Rick Reiner K6ZWB, Secretary Steven Feil KD6CJR, Treasurer Joel Nadler KJ6LF, Members-at-Large Claude Jones AB6OL and Bill Hillendahl KH6GJV, Activities Chairman, Dave Willey KD6KWM and Public Service Chairman Marie Mappus KI6QY.

Visitors/New Members: There were 2 visitors present.

New Calls/Upgrades: DDQ to +, DHA to +, DHB to +, KI6VY to AK6I.

The minutes for the March meeting were approved with the following correction, Darlene did not need help for the ERI convention: GJV/PTA

The Treasurers report by Joel Nadler KJ6LF is as published in Short Skip.

Activities Committee Report, by Dave KD6KWM: Discussing about final preparations for Death Valley, Rick reviewed progress of the construction class, Greg AC6VJ handed out a survey form for future classes, foxhunting class on April 16, Bill KO6ZG announced a VE session April 12. Field day is June 28-29.

Repeater Committee Report, by Kelly KD6CJQ: English Hill will be up this weekend. It is the backup for our main repeater on Sonoma Mtn. Please be patient about return phone calls!! Rick ZWB informed us about the VOMARC swap on April 26 and our on Sept. 20.

Public Service Committee Report by Marie KI6QY: John FRZ will be Marie's assistant for the '97 season. All May slots are filled, THANKS!! June Mini Vineman and the Terrible two.

RACES report by Merl N6VUC: April 14 Steering comm., 25 Coddingtown Earthquake display, Darlene KD6GCK presented fliers about the ERI convention.

Ken MHG reminded us about the R/C show on May 17-18, would like to have a Am Radio booth if he can get the help.

Steve CJR reminded everyone about the upcoming KZST book sales. We get to keep \$10 for each book sold. If we sell

enough we get bonus money too.

Ted PTA asked for help with his Kenwood 241A.

The program for the evening was presented by Rick ZWB. It was our annual Home Brew contest. Projects as displayed to members include:

John FRZ: Sun sensor for Phase 3D satellite. Steve KV6A: Car console including Ham, Cellular and GPS. Steve CJR: Active attenuater for transmitter hunting. Greg AC6VJ: Satellite transverter station. Rick ZWB: Completed amplifier from last year. Bill JLP: 2 to 6 meter transverter. Adam POC: speech amp, modulator and temperature sensor. Chris MNR: 800 to 5000 MHZ log periodic on PC board material. Ken MHG: SCRA Home Page. Dave KWM: ZL Special ant. design, Voltmeter, T-Hunt transmitter, APRS digipeater station. Hollis UDH: Packet station.

Prizes were awarded for small and large project. Steven KD6CJR won the small project class and Greg AC6VJ won the large project class.

The raffle was conducted by Ken MHG. Prizes were provided by ARDCO and HSC. The family of Claude W6YCT (skey) provided a Micronta VOM. Please patronize these fine establishments to show our thanks for this support.

James pulled Robert N6GDC for the membership lottery.

The meeting was adjourned at about 9:45 PM.

Board Meeting Minutes April 9, 1997



The April 1997 Minutes of the Sonoma County Radio Amateurs board meeting held at the Bank of the West on Marlow Rd. Members of the board present were: President, Steve KV6A; Vice President, Rick K6ZWB; Secretary, Steven KD6CJR; Treasurer, Joel KJ6LF; Members-at-large, Claude AB6OL and Bill KH6GJV; Repeater Chairman, Kelly KD6CJQ; Activities Chairman, Dave KD6KWM and Public Service Chairman Marie KI6QY. There were also 4 other SCRA members present. The meeting was called to order at 5:35 PM by President Steve KV6A.

Steve KV6A: Field day is June 28-29. 1 tent will be purchased per the budget. Litton Springs will not be available as a site. PLEASE bring to the attention of Steve ANY ideas so he can pursue them.

(Continued on Page 5)

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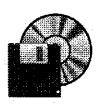
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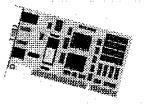
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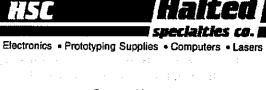
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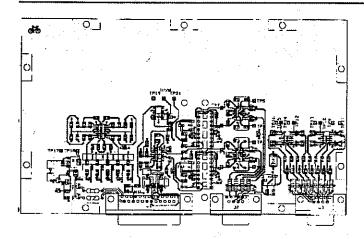


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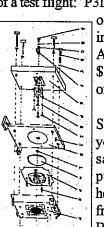


Rocket Science

(continued from page 1)

What's Next?

Since we started this project, the launch date has been set back twice, due to problems at the European Space Agency. The latest date is September 8, on the second attempted launching of the brand-new Ariane 5 launch vehicle. (Don't ask what happened on the first attempt!) This is something of a test flight: P3D is the only active satellite, with the rest



of the payload filled with ballast and test instrumentation. As compensation, AMSAT only had to pay a launch fee of \$1,000,000 compared to the normal price of \$40,000,000.

So why not become a rocket scientist yourself and gear up to work through the satellite? Most of the equipment can be purchased ready-made or you can go the homebrew route. With 10 bands to choose from, there's something for everyone. Borrow a friend's QSTs if you're not an ARRL member and read the articles to find out what you need. See you on 10 GHz!

Board Meeting Minutes

(continued from Page 3)

Rick K6ZWB: Asked if we could start a new feature for Short Skip: Member Profiles.

Steve KD6CJR: Presented a letter from ARRL soliciting funds for the Frequency Defense Fund. All members are encouraged to support the fund on an individual basis.

Joel KJ6LF: Call sign trustees for the club and repeater need to be a club member in good standing.

Claude AB6OL: Short Skip deadline is now the Friday following the Board meeting.

Bill KH6GJV: April 16 T-hunt class, 18-20 Death Valley trip, 26 VOMARC Swap in Sonoma, May 10 Human Race, 17-18 R/C show. There is still not a fixed date for the Alcatraz trip and it will most likely not be an over-nighter as planned.

Marie KI6QY: Mini Vineman is June 15, Vineman is July 26, Terrible Two is some time in June. We will not actively support the Thursday Night Market as a club this year. All members are encouraged to support the activity as individuals. It is the policy of SCRA Public Service to do Communications for the group we are supporting.

Merl N6VUC: April 25 from 5 - 8 is the Emergency Preparation Display at Coddingtown. Bill KH6GJV and KD6CJR offered to help man it. Will not be supporting the Cotati event due to lack of formal notice from parties involved.

KE6VGV Has the Autopatch ID policy been resolved/implemented? It was published in a recent Short Skip. The patch will be knocked down if anyone attempts to use it without ID, regardless of intent.

Respectfully submitted by Steven Feil, KD6CJR, Secretary.

New RACES Radio Officer

Eran Glago KD6KVO, has taken over the position of RACES Radio Officer from Merl Pfeiff N6VUC, effective immediately. He is appointing 3-5 Assistant RO's (ARO's). The first are: Raul KI6JC as ARO for Logistics; Kelly KD6CJQ, as ARO for Operations; and Darlene KD6GCK, as ARO for Administration and Training. As Com Unit Leader for the EOC, Bill KH6GJV will replace Kelly. Other appointments will be announced as they happen.



345 West College Ave, Santa Rosa, CA 95401 (707) 527-8000

STEVE BASHAM Manager

SCRAPS

The Season Has Begun!

Our public service season has started out with a bang! By the time you receive this issue, The Super Cities Walk will have been a success, and perhaps the Wine Country Century too! All radio operator positions have been filled for the two public service events in May: Wine Country Century on May 3, and the Human Race on May 10. Thanks to those of you who have gratefully volunteered to help on these events!

The two public service events next month are the Mini Vineman on June 15, and the Terrible Two later in the month. Please consider helping with these events; we are always happy to welcome newcomers to share the fun of public service events. Contact John Breckenridge, WB6FRZ at 838-6398 to sign up for events, and Marie Mappus, KI6QY at 664-1978 for specific questions or comments about public service. We would love to hear from you.

Thursday Night Market Events Changes

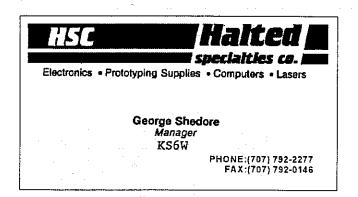
SCRAPS will no longer participate as a group in Santa Rosa Thursday Night Market activities. This decision has been reached, and prompted by us, and not those in charge of the Thursday Night Market. The primary duties of our members at these events are (and have always been) to make sure people get across streets safely. Although some communications work has been done in the past, it has been clearly stated by the Thursday Night Market Executive Committee that because they have adequately provided their own radio links, our communications skills are <respectfully> not needed.

At the same time, the Executive Committee gratefully acknowledges and thanks the radio amateurs who have helped safely direct traffic in the past. Moreover, they sincerely hope that any members of our club who wish to continue to participate in that activity will volunteer on an individual basis. They still need plenty of help directing people across streets. Please contact Gina Silvera, Thursday Night Market Event Coordinator, at 524-2123 to volunteer your services.

The SCRA public service committee and Officers of SCRA stand ready to consider all requests by the Thursday Night Market Executive Committee for future communications assistance.

73,

Marie Mappus, KI6QY John Breckenridge, WB6FRZ



From the Prez:

Many people want to participate in club activities and voice their opinions on various subjects but find that they just don't have time.

We as members, are not utilizing a resource that has been set for years just for this situation. It is called the Member at Large. We have two of them, Bill KH6GJV and Claude AB6OL. This is the membership's voice to the board and the club. If you want to express your feelings about something, tell a member at large. That's their job. They will take it to the board. Many times we hear ideas or comments "thru the grapevine". That's not the way to be heard. If you have something that you want to say but you don't have time to come to a board meeting, use the members at large. They will express your opinion or comment at the board meeting. LETS USE OUR RESOURCES AND GET INVOLVED.

73, Steve

SOLAR FLUX DOWN, NUMBERS UP

Sun watcher Tad Cook, KT7H, Seattle, Washington, reports: Average solar flux was down a little with sunspot numbers up a bit over the past week. The most significant event was the delayed reaction to the big solar mass ejection, which drove the Planetary A index to 38 and K index up to 7 on April 11. Over the next few days watch for a retreat in the solar flux from the high 70s down to the low 70s until the end of the first week in May, when it will start creeping up to the 80s again. Solar flux is expected to be above 80 by May 10.

Look for geomagnetic disturbances to appear again around April 24 and 25. All of this forecast is based upon activity seen during the last solar rotation, and, of course, new activity could appear at any time.

The ARRL Letter