



**South Bay
AMATEUR
RADIO CLUB**



March 2011

ARRCOver

*A Community
Service
Organization
Dedicated to
Amateur Radio
Since 1970*

E-mail:
W6SBA@arrl.net

Website:
[http://www.
w6sba.org](http://www.w6sba.org)

President –
Alan – KG6ZPL



President's Message

Hi everyone! First, if you haven't already done so, please renew your club membership as soon as possible. Joe will have more about this in this issue. Also, join or renew your ARRL membership through the club. It's worth it. Talk to Joe for details.

It's March already and it is only three months until Field Day. After this month's Einstein presentation, we will probably be emphasizing Field Activities at our monthly meetings. In preparation for Field Day, we are going to have an antenna party in May at the hospital site instead of our monthly luncheon at Hof's Hut. The goal is to familiarize everyone with our antenna mounting process so that it will go more easily in June. The club will provide food. Since we will have some antennas up, we may well try to get in a little operating as well.

Ray, WA6OWM, and I are planning one more PSK31 interface building session. We will announce the date soon. Paul, KK6BY, and I are looking at a new building project for this year. We are thinking an antenna project but we are open to suggestions so, if you have an idea, please let us know.

The club has ordered an MFJ 269 Antenna Analyzer. We hope to have a meeting presentation discussing its use with hands-on practice at a future meeting. Thanks again to Jim Hill for the suggestion.

Our summer activity will be a family picnic and operating session in lieu of the monthly July luncheon. James, KI6UPL, and Alex, KD6LPA, are making plans and park reservations for this event. The club will again provide food. The IARU HF World Championship contest takes place that weekend. For a Fall club activity, we are looking into a field trip, possibly to a museum or commercial broadcasting facility. For future meeting presentations, we are trying to showcase PIC Processors, D-Star digital communications, and simple antenna theory. That's all for now. I look forward to seeing you at the March meeting. The talk will be great! — Alan

Club Jackets and Shirts

We have prices for you to consider in obtaining a club jacket, a polo shirt, and/or a hat:

- ◆ Jacket with Large logo on the back, smaller logo up front and your name and call (this is all embroidered) and I am sure you've seen them \$ 53.00 (incl tax).
- ◆ Polo shirt, 100% cotton. One small logo on the front, no name or call \$ 25.00
- ◆ Polo shirt 100% cotton, One small logo and name and call \$ 28.00
- ◆ Hat with logo \$12.00 Please see Joe for placing your order.

Joe will have more information at the next meetings on this offer.

This Month at the Meeting...

Einstein for Everyone

presented by **Dr. Robert Piccioni**



How did a young rebel, who seemed doomed to fail, overcome rejection to become the world's most famous scientist? In plain English, what do his theories mean? And how do they impact our lives through DVDs, GPS, computers, digital cameras, and smarter energy?

Dr. Piccioni is an expert on Einstein's theories and cosmology. Robert ran eight high-tech companies and holds patents in medical equipment, microelectronics, and smart energy. Since "retiring", Robert's mission is making science accessible. He teaches at the Osher Institute and hosts an online radio show "Guide to the Cosmos". Robert is the author of two books that were selected Best Popular Science Book of the Year in national and international competitions. Dr. Robert L. Piccioni has introduced cutting-edge science to numerous non-scientific audiences, including school children and civic groups.

Dr. Piccioni has a B.S. in Physics from Caltech, a Ph.D. in High Energy Physics from Stanford University, was a faculty member at Harvard University and did research at the Stanford Linear Accelerator in Palo Alto, Calif.

CLUB OFFICERS FOR 2011:

President, Alan Parks - KG6ZPL
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Vice-President, Ray Grace - WA6OWM
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Secretary/Treasurer, Joe Lanphen - WB6MYD
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Past President, Alex Marko - KD6LPA
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Activities Council Member
James Murakami, KI6UPL
katsu442@yahoo.com - 310-480-7794

Events Council Member
Paul Avery, KK6BY
pravery@pacbell.net - 310-676-0212

Membership Council Member
Mike Kosidlak, KI6LJM
KI6LJM@gmail.com - 424-241-0442

NVIS Propagation

During Ray's talk on the Budi-Stick antenna last month, NVIS was mentioned. Since I didn't touch on this during my propagation presentation last year, I thought a short discussion of this might be in order. NVIS stands for Near Vertical Incidence Skywave. This can be a useful form of propagation providing usable signals in the range between groundwave and sky-wave distances, usually 30 to 400 miles. This can be useful in mountainous areas where line-of-site propagation at VHF or UHF frequencies is ineffective or when more local lower frequency communication is desired.

The radio waves travel upwards into the ionosphere, where they are refracted back down and can be received within a circular region up to 400 miles from the transmitter. If the frequency is too high, refraction fails to occur and if it is too low absorption reduces the signal strength. The usable frequencies for NVIS communications are between 1.8 MHz and 15 MHz. The most common bands used are 40, 60, and 80 meters. The lowest layer of the ionosphere, called the D-layer, causes attenuation of low frequencies during the day. This layer disappears at night enabling improved communications at the lower frequencies. Hence, this is mostly a night time propagation mode.

An NVIS antenna configuration is a horizontally polarized radiating element that is from 1/20th wavelength to 1/8th wavelength above the ground. Ray, WA6OWM, reports that the Budi-Pole antenna is ideal for this. That proximity to the ground forces the majority of the radiation to go straight up. Overall efficiency of the antenna can be increased by placing a ground wire slightly longer than the antenna parallel to and directly underneath the antenna. While the ground wire is not necessary under good to excellent propagation conditions, antenna gain in the 3 dB to 6 dB range are common when the ground wire is used. Significant increases in communication will be realized when both the transmitting station and the receiving station use NVIS configuration for their antennas. (Thanks to WIKIPEDIA which I researched thoroughly for this item.) - Alan KG6ZPL

CLUB SERVICES:

License upgrades and / or new license testing
 VE Sessions are held the 2nd Saturday of every even month
 Need to sell something at the Swap Meet?
 ARRL Membership renewals or new registration
 Club Name Badge / Jackets

Club Operation
 Need something posted on the web site, or newsletter?
 Ideas for Club Speakers, Field Day Planning
 Membership, Health & Welfare
 Upcoming Club Events
 Club Activities

CONTACT:

Joe, WB6MYD
 Joe, WB6MYD
 Joe, WB6MYD
 Joe, WB6MYD
 Joe, WB6MYD

Alan, KG6ZPL
 Alex, KD6LPA
 Ray, WA6OWM
 Mike, KI6LJM
 Paul, KK6BY
 James, KI6UPL

POSITION:

Secretary / Treasurer
 Secretary / Treasurer
 Secretary / Treasurer
 Secretary / Treasurer
 Secretary / Treasurer

President
 Webmaster
 Vice President
 Editor / Member
 Council Member
 Council Member

If you have questions about your ham equipment, please feel free to ask any of our club members for help. Or, if you'd like, please talk to any council member, and we'll do our best to help you.

"Elmering" is available to every member, please ask any officer, and we will find a knowledgeable club resource for you.

**ANNOUNCING
THE NEXT SW DIVISION CONVENTION**



HAMCON 2011
ARRL Southwest Division
Amateur Radio Convention
“COMMUNICATIONS
AROUND THE WORLD”
September 9, 10, & 11, 2011

Marriott Torrance South Bay
3635 Fashion Way, Torrance, CA 90503 1-800-228-9290
Hotel Reservation Code: HAMCON

**COME JOIN THE FUN
AND
EXPERIENCE WHAT HAM RADIO HAS TO OFFER**

CW **W1AW/6** **DX**
SPECIAL EVENT STATION
LUNCH **VENDORS**
ANTENNAS **BANQUET**
WOUFF HONG **EVEN SOMETHING TO DO** **EXHIBITORS**
FOR THAT NON HAM
TECHNICAL TALKS **IN YOUR LIFE** **BREAKFAST**
RADIO DEMOS **EMCOMM** **T-HUNTING**
VE EXAMS **DOOR PRIZES** **GREAT PROGRAMS**
ELMERS **ELECTRONICS** **TECHNOLOGY**

**FOR INFORMATION UPDATES AND THE LATEST NEWS
VISIT OUR WEBSITE: HAMCONINC.ORG**

by Chris Codella, W2PA

Pins

Across

- 1. Tube connection*
- 5. Close-knit group
- 10. Tube conn.*
- 14. Verdi opera
- 15. Ten-Tec rig
- 16. Ten-Tec rig
- 17. After-bath powder
- 18. Kazakhstan prefix
- 19. Bushel quarter
- 20. With 53 across, describes the * words
- 22. Analyze syntactically
- 23. Window alternative
- 24. ARRL org. pertaining to SS, others
- 25. Beast of burden
- 28. Turner of TV channels
- 29. Platform on a ship's mast (a place for a /MM antenna?)
- 33. Odwalla fruit and ____

1	2	3	4		5	6	7	8	9		10	11	12	13
14					15						16			
17					18						19			
20				21					22					
			23					24						
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33			34			35				36				
37					38				39					
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43				44			45				46			
			47			48				49				
50	51	52				53					54	55	56	
57					58						59			
60					61						62			
63					64						65			

- 35. Not brilliant
- 36. Best kind of tower
- 37. New England net
- 38. Transistor conn.*
- 39. Singer Ronstadt
- 40. UA assembly
- 41. Cutter
- 42. Digital mode
- 43. Delta follower
- 45. YLRL non-member
- 46. "____ we having fun yet?"
- 47. Caller for calls
- 48. T8 land
- 50. RG8 ground
- 53. See 20 across
- 57. CW
- 58. Thorny
- 59. 7800 maker

- 60. H.S. tests
- 61. Cycle user
- 62. Put one's foot down?
- 63. Transistor conn.*
- 64. TI land first name
- 65. D.C. group

Down

- 1. Tube or Transistor connection*
- 2. EP coin
- 3. Like some chatter
- 4. S2 capital, old-style
- 5. Swift horse
- 6. Noted traitor
- 7. Device with only a 25 down and 10 across
- 8. Recent UA prefix, especially, e.g. M-V Is.
- 9. W1 dir. from W7

- 10. Just fine
- 11. Part of ARRL (abbr.)
- 12. Ckts. for 42 across use
- 13. Go backpacking
- 21. Ten-Tec amplifier
- 22. Golfer's goal
- 24. Computer port type
- 25. Tube connection*
- 26. Gray line time
- 27. Flower towers
- 29. Tube conn.*
- 30. JA poem
- 31. OOTC member, to an OTC member, probably
- 32. Tube connection*
- 34. Smartest
- 35. Jones' partner
- 38. Plains states NTS org
- 39. KH6 porch

- 41. The only CW most people know
- 42. KH5 land
- 44. CRT successor
- 45. OJ0 reef
- 48. What output power does, in resonance
- 49. Ohms, volts, and others
- 50. Transistor connection*
- 51. Drift
- 52. Prefix with VOX
- 53. Kenwood, once
- 54. Antenna farm unit
- 55. "Crazy" bird
- 56. Tiny parts
- 58. Big G SW org.

TAKE A LOOK —> South Bay Amateur Radio Club is now on Facebook !

NOTES FROM THE SECRETARY - JOE-WB6MYD
e-mail - jlanphen@ca.rr.com • 310-328-0817



1. Congratulations: Ken-K6HKR was given a grand-daughter named Olivia by his daughter. Congratulations Ken!
2. Thank you: We miss John our faithful contributor to the TRW swap meet since having moved. Joe was and had asked to get relief for a little while so he to could take a look around at our last swap meet. Thanks to Gary-WD9DUI and Bill-KQ6Z he was able to do just that during the Feb. 26th swap meet. Thank you gentlemen.
3. This is an reminder that dues are due and payable to the SBARC. The following is a listing of those having renewed for 2011 in addition to those listed in the February Arc Over:

Name	Call	Drawing #	Name	Call	Drawing #
Alan	K6MU	551540	Ken	K6HRN	551541
Matthew	N6MDC	551542	Sarath	KF6DBX	551543
Rich	KG6JKJ	551544	John	AE6LK	551545
Donna	Wilson	551546	Bob	WA6KZF	551547

We thank you for your continued support and really look forward to your participation in what we will see as our finest hours in the SBARC. Lots of plan are being made and it is hoped with your support we will continue to be the one and only South Bay ARC for your pride and enjoyment as a member.

This is to remind those of you not having paid your 2011 dues, please join us again in supporting the SBARC. It is only through your support and participation that we will continue be as successful as we are and can be. \$ 20.00 for single membership and \$ 30 dollars for Associate and Family membership. Please make your check payable to the SBARC and mail to the **PO box 536, Torrance, CA 90508-0536**. Thank you.

4. Congratulations: Alexander passed his test at our last VE session and is now KJ6MRW and is joining us on our Thursday night net and can furthermore be heard on our repeater. Thanks Alexander, we look forward to you upgrading at our April 9th VE session and congratulations.
5. License classes: Walt-K1DFO will start the Tech and Gen class on April 23 at Hesse Park. If you wish to upgrade and or get your license Walt is the man to help you get there. We hope include the flyer in this Arc Over.
6. Speaker: Please see the bi op on our speaker for this month. The subject is "Einstein for everyone" which promises to be a very lively.
7. FD: yes it is that time again. Yes plans are being formulated and goals are being set for the 2011 ARRL Field Day event. It asks everyone to participate in this annual event which is a good thing. We hope never to have to actually support our community and fellow friends and of course family because this is what FD is all about. Preparing ourselves to support each other in case of the 'Big One'. We once again saw the havoc it caused in New Zealand almost a month ago. This one caused enough damage and losses in a country which is supposedly as advanced in the modern technology to construct every thing according to code and highest standards. Mother nature showed its awesome power. This to can be us one of these days and so we need to be prepared which we can only do by practicing what we are supposed to preach.
8. Plans: As you all know I've been around for a long time in this club (since 1972) but this is the first time that I've seen so many plans being formulated for us all in the SBARC. Projects, Field Trips, demonstrations and operations, Social and above all Radio Active projects and anticipated participation for all of us. You can't help but wanting to be involved which is the way it should be. So please stay tuned., Continue your support and sooner or later we will push the right button to have you participate in some of these activities also.
9. Services: Please renew your ARRL membership through the club or better yet become an ARRL member through the club. We do get a small commission for each new member or renewals. Elmering is available for any one needing some suggestions or assistance, please ask. Name badges are available just let Joe-WB6MYD know. If you wish us to share your happy event or support you in time of your grief please let us know and we will assist you in any way possible.

Special Olympics: As you know the Special Olympics are held here once a year. This time again at Cal State Long Beach on June 17-19, 2011. Your help will always be appreciated in this worthy event. Let me know and I'll hook you up if you wish to support this event.

This is all for now.
 Joe

CALENDAR

Council Meeting - 1st Wednesday of the month
Call Joe - WB6MYD (310) 328-0817

Club Meeting - 3rd Thursday of the month
March 17, 2011 - 7:00 p.m.
Torrance Memorial Medical Center
West Tower, 2nd Floor, Room "A"

Club Nets - **W6SBA WEEKLY NET**
Every Thursday @7:30pm
(except the night of club meetings)
PVUSD EMERGENCY NET
1st Tuesday of the month
09:30 Hours on the W6SBA repeater

TRW Swap Meet Saturday, March 26, 2011 7-11:00
a.m.

VE Session - **March 12, 2011 9-11am**
West Tower, 2nd Floor, Room "A"
Contact: Joe WB6MYD
Phone: (310) 328-0817
jlanphen@ca.rr.com or w6sba@arrl.net

Social Event - 2nd Saturday, **March 12, 2011 @12pm**
Hof's Hut
23635 Crenshaw Blvd

CLUB SERVICES

Awards Manager (HF/VHF)	Cliff - K6LH
Health & Welfare	Mike - KI6LJM
Swap Meet Chair	Joe - WB6MYD
VE Test Liaison	Joe - WB6MYD
VE Test Sessions	Joe - WB6MYD
Webmaster	Alex - KD6LPA
Editor	Mike - KI6LJM
Proofreader	Alex - KD6LPA

South Bay Amateur Radio Club Repeater

224.38 MHz ·PL - 192.8 Hz Offset -1.6 MHz
(See Calendar for Weekly Net Times)

NEWSLETTER SUBMISSION

South Bay Amateur Radio Club
P.O. Box 536
Torrance, CA 90508
W6SBA@arrl.net
Website: <http://www.w6sba.org>

TO:

Address Correction Requested

A COMMUNITY SERVICE ORGANIZATION

W6SBA

South Bay Amateur Radio Club
Post Office Box 536
Torrance, CA 90508-0536

