ROAR Communicator

The International Fellowship for
Rotarians Of
Amateur Radio
(ROAR)

January 2010

G0SQH, G0JWE, G4WRU, G3JJR, KC9CRE, KF6SOI, VE6BF, G8LES, EA7GSU, W8AUV, VK3KCD at the Birmingham Convention ROAR AGM on 22 June 2009

Fellow Rotarians and members of ROAR,

Past is again a New Years day and time is to hush the old year away, open the door to the present era and start filling the “tabula rasa”.

The year we already have behind had joy and sorrow of many kind: nettles and roses and moments of bliss, rain and sunshine and broken promise.

Remember by taking a little while all the moments which made you smile. Take them and leave the sorrows on the floor when you are closing the old years door.

When wishing you a Happy New Year, I also hope that you will distribute our Communicator also to those members whom you know have been with us but for some reason do not exist in the latest Directory. We know this year will be better! The sun spots are coming!

73 and CU on the frequencies,

Rtn Pertti (Pete) Kause
EA7GSU / OH1SH
(RC Benahavis-Costa del Sol, Spain)
President, ROAR, 2009-2012
**Editorial**

I must first of all thank our President Pertti EA7GSU / OH1SH for the confidence he had in me when he assigned me the job as your Editor. I must also thank all the other Officers of ROAR, especially Webmaster Bill VK42D and his XYL and former Editor Diane VK4KYL for their support, by way of advice and materials. Former Editor Don Cliffe G0JWE gave me his valuable suggestions for the production of the magazine.

With all these I am now presenting to you my first issue of ROAR Communicator. I have tried to keep this as simple as possible, for better readability and layout. I hope you enjoy reading this as much as I enjoyed making this. I wish I could use more stories and pictures. But alas, I did not have many!

With the fast development of technology and the vast amount of information available on these advancements, on the internet and elsewhere, it is not a tough job to fill up the pages of a magazine like this. But then, our aim is not to produce a literary masterpiece on technology. But then, our aim is not to produce a literary masterpiece on technology. The ROAR Communicator is your magazine. More than anything else, we want to carry the stories of our members, far and wide, off and on the air, for the information of everyone, their activities related to Amateur Radio, or still better Amateur Radio and Rotary. Such information is not available on the internet or elsewhere. That is available only with each one of you. We therefore, depend upon you to provide us with articles and manuscripts and photographs to publish, and, to that end, I am asking for your assistance. Please send me your stories (editor@ifroar.org), however short or long they may be, and I will find a way to put them in.

73,

Yours in Rotary,

Rtn James Kalassery VU2ARL,  
(RC Cochin Midtown, India)  
Editor, ROAR Communicator.

**Thank you ...**

When I look back over my just completed term as the ROAR President, I can tell you I had a great time, got to meet and then know Rotarians I probably would have never known, got my picture in the “Rotarian” magazine, and worked to make ROAR a stronger organization... and all because I said I would help Laszlo, AD6XX put together a station for the 100th Anniversary Rotary Convention in Chicago (USA). We are all communicators of one sort or another, all of us are Rotarians, and as such, we all serve our fellow women and men. My only regret is that propagation keeps many of us from communicating via our radios. In the meantime, we can stay together via the Internet. Let’s all contribute something that let others know something about you, your family, and/or your Rotary Club.

After moving from Dallas, Texas to Cincinnati, Ohio I hope I’ve convinced necessary people that my antenna won’t adversely affect their property. I do hope to be on the air before the end of the year.

I wish to thank and acknowledge all who helped me to make this such a memorable three year period in Rotary. Together Everyone Achieves More (TEAM).

73,

Yours in Rotary,

Rtn John Maier W8AUV,  
(RC Sarasota Gulf Gate, USA)  
Im. Past President, ROAR

**Reverse Beacon Network (RBN)**

A handy tool/concept for DXers as well as our Net Controllers to check out propagation conditions on a regular basis. Call a quick CQ and see how strong you are with any or many of the reverse beacons hearing you.

Normal beacons actively transmit signals and if you hear them you know the band is open to that side. But then, you have to listen for so many beacons to get an overall picture of the propagation.

RBN works the other way around. A network of stations are listening on the bands and they report what stations they hear, how strong and when.

The network consists of wideband CW receivers in different parts of the world that feed spots of DX stations as heard at their side. This information is continuously updated into a database. The spots displayed on the database give you the call sign of the receiver (called a Skimmer), the call sign of the DX station spotted, the frequency, the SNR in dB, CW speed and timestamp.

For more details, visit http://www.reversebeacon.net/

Make a few CQ calls on CW from your QTH and chances are that one of the many receivers out there will hear you and post a spot on you. And there you are!

*(Try this out to see how well this works and helps, and send us some reports, for the next edition of ROAR Communicator - Editor.)*
Warning:
Don’t fix your antenna after dark!

At approximately 8:40 PM on Monday, October 12, a man, woman and their 15 year old son were killed while trying to erect a 50 foot vertical antenna at the home of the man’s mother, Barbara Tenn, K4KFF, in Palm Bay, Florida. The deceased were not licensed amateurs.

“It happened in an instant,” Palm Bay Fire Marshal Mike Couture said in a statement. “It is an unfortunate set of circumstances that led to the most tragic result.”

According to police reports, Melville Braham, 55, Anna Braham, 49, and their 15 year old son Anthony were putting up an antenna — Tenn’s second — at night when they lost control of the antenna and it crashed into nearby overhead power lines. The impact sent 13,000 volts of electricity through the pole the three were holding. A family friend, a 17 year old boy, was on the roof at the time of the accident. He and the couple’s daughter, who was in the house at the time, were not injured.

The mother was pronounced dead at the scene. When paramedics arrived, the father and son were not breathing; rescue crews immediately tried to resuscitate them. They were transported to a hospital where they later died.

Neighbor Jim Vallindingham told television station WFTV that he called 911 when he saw the fire in the back yard and he ran over: “I had no idea it was electrical until we got over there and saw the three people laying on the ground. So I called 911 a second time to tell them there were casualties. You know, there were people on the ground. So [the 911 operator] told me that’s electric, you back away don’t touch anything.”

Couture said that night was not the best time to be attempting to put up an antenna. “It wasn’t the best time, meaning it was night time. Obviously, in darkness, and trying to do something like this and not being keenly aware of where the power line is in the backyard, [was not a good idea],” he said.

Neighbors said that Tenn, an ARRL member, used Amateur Radio to talk with her family in Jamaica. — Thanks to WFTV and Central Florida News 13 for the information.

Source: http://arrl.org

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**ROAR Nets around the World**

<table>
<thead>
<tr>
<th>Day/Time</th>
<th>Frequency</th>
<th>Area</th>
<th>Net Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>02.00 UTC</td>
<td>14.292 Mhz.</td>
<td>India</td>
<td>G4YZE / VK2GWK/VK4ZD</td>
</tr>
<tr>
<td>07.30 UTC</td>
<td>7.090 Mhz.</td>
<td>South Africa</td>
<td>G4YZE / VK2GWK/VK4ZD</td>
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<tr>
<td>08.00 UTC</td>
<td>14.300 Mhz.</td>
<td>South Africa</td>
<td>G4YZE / VK2GWK/VK4ZD</td>
</tr>
</tbody>
</table>

**EVERY SUNDAY**

<table>
<thead>
<tr>
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<th>Area</th>
<th>Net Controller</th>
</tr>
</thead>
<tbody>
<tr>
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<td>14.293 Mhz.</td>
<td>Europe - VK-ZL [April - October]</td>
<td>G4YZE / VK2GWK/VK4ZD</td>
</tr>
<tr>
<td>08.00 UTC</td>
<td>3.692 Mhz.</td>
<td>Inter - UK [Summer]</td>
<td>G4HMG, G4FTA, G3JRR, G3LUW</td>
</tr>
<tr>
<td>09.00 UTC</td>
<td>3.692 Mhz.</td>
<td>Inter - UK [Winter]</td>
<td>G4HMG, G4FTA, G3JRR, G3LUW</td>
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<tr>
<td>09.30 UTC</td>
<td>3.630 Mhz.</td>
<td>New Zealand</td>
<td>G4YZE</td>
</tr>
<tr>
<td>10.00 UTC</td>
<td>14.293 Mhz.</td>
<td>Australia - New Zealand</td>
<td>G4YZE</td>
</tr>
<tr>
<td>11.30 UTC</td>
<td>14.293 Mhz.</td>
<td>International</td>
<td>G4YZE</td>
</tr>
<tr>
<td>18.00 UTC</td>
<td>3.692 Mhz.</td>
<td>Inter - UK [Summer]</td>
<td>G4YZE</td>
</tr>
<tr>
<td>19.00 UTC</td>
<td>3.692 Mhz.</td>
<td>Inter - UK [Winter - not Dec &amp; Jan]</td>
<td>G4YZE</td>
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<td>22.00 UTC</td>
<td>3.955 Mhz.</td>
<td>U.S. Mid States</td>
<td>G4YZE</td>
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**EVERY FRIDAY**

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</thead>
<tbody>
<tr>
<td>09.00 UTC</td>
<td>14.282 Mhz.</td>
<td>UK - Spain [Summer]</td>
<td>EA5ALK</td>
</tr>
<tr>
<td>10.00 UTC</td>
<td>14.282 Mhz.</td>
<td>UK - Spain [Winter]</td>
<td>EA5ALK</td>
</tr>
<tr>
<td>11.30 UTC</td>
<td>14.293 Mhz.</td>
<td>International</td>
<td>EA5ALK</td>
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**EVERY DAY**

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<tr>
<td>22.30 UTC</td>
<td>7.0775 Mhz.</td>
<td>Japan</td>
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**DAILY EXCEPT SUNDAY**

<table>
<thead>
<tr>
<th>Day/Time</th>
<th>Frequency</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>07.30 UTC</td>
<td>7.0775 Mhz.</td>
<td>Japan</td>
</tr>
<tr>
<td>12.30 UTC</td>
<td>3.935 Mhz.</td>
<td>North Carolina - USA</td>
</tr>
</tbody>
</table>

*Use 14.293 MHz and 21.403 MHz as our calling frequencies.*
A lot of people think that with the advent of internet and its kind, amateur radio is losing much of its usefulness and relevance. But, the ground reality is different, as seen from the article “A Cyber-Attack on an American City” by Bruce Perens KB6BP. (Excerpts reprinted with his permission).

*Just after midnight on Thursday, April 9, unidentified attackers climbed down four manholes serving the Northern California city of Morgan Hill and cut eight fiber cables in what appears to have been an organized attack on the electronic infrastructure of an American city. ... The city of Morgan Hill and parts of three counties lost 911 service.

What should every ham know how to do?

by Rtn Dan Romanchik KB6NU (Member, ROAR & RC Ann Arbor, MI, USA)

On the HamRadioHelpGroup mailing list, there was recently a discussion about using modulated CW on 2m. One writer pointed out that MFJ sold a unit that would do this. When I told him that this box cost $100 and that they could do exactly the same thing with the $18 PicoKeyer from HamGadgets.Com, I got some flack that the PicoKeyer was a kit, and that some people might not be able to build it. I pointed out that a couple of years ago our club held a construction night, and that several people who had never soldered before successfully completed the kit. I also pointed out that even if the ham didn't have the proper tools, he or she could purchase a soldering iron, needle-nose pliers, and diagonal cutters, in addition to the kit, all for less than $100. I don't know if that convinced him, but it got me thinking about what a ham should be able to do.

This is the list I've come up with so far:

1. Solder. Every ham should know how to solder a connection, and by extension, build small kits and cables. Over the course of one's ham career, this skill will save you a ton of time and money.
2. Build a dipole antenna. The dipole is the simplest and most versatile antenna.
3. Knowing how to build one and use one is an essential skill.
4. Check into a Net. Net operation is one of the most basic operating skills.
5. Use a multimeter to measure voltage, current, and resistance and know what those measurements mean. This is the most basic skill used in troubleshooting, and at some point or another, you're going to have to troubleshoot something.

This list does, of course, imply that a ham is physically capable of doing them. I would not expect hams that are physically disabled to be able to do all these!

After I posted this to my blog (www.kb6nu.com), I got several good responses. Jeff said, "I believe hams should know how to install RF connectors, particularly the three most used in our hobby, the PL-259, the BNC, and the N connector." Bair WB3AWJ, replied, "Another thing that hams should know how to do is to measure the SWR of an antenna." So, now I ask you, what do you think every ham should know how to do? Feel free to post a comment to my blog or e-mail me at cwgeek@kb6nu.com.

When not analyzing the abilities of amateurs, Dan pounds brass on nearly all the HF bands and teaches various ham radio classes in Ann Arbor, MI. You can read his other musings on his fine hobby at www.kb6nu.com. ***

When everything fails ...

Realizing that they'd need more two-way radio, authorities dispatched police to wake up the emergency coordinator of the regional ham radio club, and escort him to the community hospital with his equipment. Area hams dispatched ambulances and doctors, arranged for essential supplies, and relayed emergency communications out of the area to those with working telephones."

(http://perens.com/words/articles/MorganHill/ )


Bruce Perens KB6BP is a leader in the Free Software/Open Source community. Today he is most active in evangelizing to government and industry. He has presented at UN, EU, and national government events. He advises local and national governments and a number of “Fortune 100” corporations on Open Source policy.

Perens is probably best known as the creator of the Open Source Definition, which is both the manifesto of the Open Source movement in software and the specification for its licensing. Perens was the person who announced Open Source to the world, and co-founded the Open Source Initiative. He is the founder of the Linux Standard Base, the main standards project for Linux; and Software in the Public Interest.

Perens believes “Amateur Radio is one of the few ways that a student can gain hands-on knowledge engineering real wireless communications systems, including space communications. It’s the only system capable of worldwide communications without a commercial or government-owned infrastructure. Using Amateur Radio, a student can become a global network operator with significant responsibility.”

His website: http://perens.com
Tokyo the 30th anniversary of establishment general meeting

2009.7.11-12
central TOKYO

General meeting

2009-10 President
JA3BSX

2008-09 President
JE1CNY

Board of directors

Sightseeing in Tokyo
**Special Message from the President**

Fellow Rotarians and ROAR members,

Soon it will be eight months since I mounted the saddle. Some members of our board had already made a long day in serving our Fellowship and I am so glad to be back. Secretary Noel VK3WTV left his pen to Elwood Anderson AE5EA (Andy), Ted Nelson KL7USN as Regional Vice-President USCB West moved to Alaska and have no aerial possibility. Fellows were calling for Chuck Graham K6GDC and he has taken over but still recovering from kidney operation. As a new Vice-President we have Cees Jan van Mourik PA2X whose area (Continental Europe, North Africa, Eastern Mediterranean) has not got very many members. YET!

I warmly thank every out going members for the job well done and welcome the new members of the Board to the exciting and challenging world of Rotarians of Amateur Radio. We have many things to do!

Diane Main VK4KYL has handed the editorship of our magazine over to James Klassery VP2ARL. Welcome James and thanks for taking the task under your wings.

A lot of work was done last Autumn to establish the machinery and we are now test running it. For reasons of increasing cost of printing and distribution and also to take on the challenge of new technology we are distributing it via the internet but also having it on our web site. It only can be sent directly to you if you keep your contributions and e-mail addresses updated. For those members who do not have access to Net yet, we are making different arrangements but then keep your QTH info valid! Please remember every now and then to check the web pages at www.ifaroar.org and participate in the production of our Communicator! Communicate!

Felicitaciones a nuestro Editor James y bienvenido a bordo!

Meine besten Glückwünsche an James und Willkommen am Schiff.

73,

Yours in Rotary,

Rtn Pertti (Pete) Kause
EA7GSU / OH15H
RC Benahavis-Costa del Sol, Spain
President, ROAR, 2009-2012

**New digital ATV experiments on 70cm show promise**

The 70cm band has been used for Farscan ATV since the 1950s. Until recently these transmissions used conventional analogue modulation, just like broadcast TV on the UHF bands. The bandwidth of such a signal using 625 line transmissions is 8MHz. The bandwidth of the 70cm band 10MHz in most areas of the UK. So you will see that an analogue TV transmission fills most of the 70cm band. The 70cm band plan available on the RSGB website recommends an ATV carrier frequency of 435 to 438MHz and therefore it is inevitable that there will be interference between these analogue TV transmissions and other users of the band.

To solve this problem amateur television enthusiasts throughout Europe have been experimenting with digital modulation. There are two types of modulation in use: DVB-T, as used for terrestrial broadcasting and DVB-S, normally used for satellite broadcasting.

DVB-T, as used by Freeview in the UK, uses COFDM modulation with 2000 carriers in a fixed 8MHz channel bandwidth. Because of this fixed bandwidth it is not suitable for 70cm use. DVB-S, as used by the satellite broadcasters, uses QPSK (quadrature phase shift modulation) with a channel bandwidth that is proportional to the data rate. Using 2 Mega Symbols per Second (MSPS) with a Forward Error Correction (FEC) of 50% the bandwidth works out to be almost exactly 2MHz. Using a carrier frequency of 436MHz, the channel is from 435 to 437MHz, far more compact than the analogue transmissions. Other advantages are that perfect pictures and sound are obtained when using analogue modulation.

Mike, G8LES, near Alton, Hampshire and Dave, GB4DM, near Harrow, Middlesex have been exchanging pictures recently using DVB-S on 70cm. The path is 50 miles and obstructed. They use 40W into 20 element yagis and get perfect results. The transmitter used an ex-broadcast encoder/modulator with modified amateur SSB transmitter to get the output to 70cm. On the receive side a simple upconverter is used to convert the 70cm signal to 1336MHz and then feed a conventional domestic digital satellite receiver.

(Taken from The Radio Society of Great Britain “RadCom” dated September 2007-08-24)
**RI Board Decisions - Highlights**

The second meeting of the 2009-10 RI Board of Directors was held on 2 to 5 November 2009, in Evanston, Illinois, USA. At this meeting the Board reviewed reports from 17 committees and recorded 90 decisions.

**Club and District Matters:** The Board replaced the current regional Rotary International membership coordinator program with a new Rotary coordinator program. Rotary coordinators will have a broad role in efforts to increase club membership. They will be trained in all aspects of RI programs and will promote best practices for the strengthening of clubs and districts. The Board authorized the president-elect to appoint 41 new Rotary coordinators to serve in the same geographical regions as the regional Rotary Foundation coordinators, beginning in 2010-11.

The Board amended its policy regarding the definition of a properly functioning Rotary club to include the adherence to Rotary policies, procedures, and best practices. Clubs that do not meet these criteria will be considered non-functioning.

**RI Administration and Finances:** The Board adopted revised RI mission and vision statements and amended RI’s strategic priorities.

**The RI Mission:** We provide service to others, promote integrity, and advance world understanding, goodwill, and peace through our fellowship of business, professional, and community leaders.

**The RI Vision:** We will be the service organization of choice with dynamic, action-oriented clubs whose contributions improve lives in communities worldwide.

**RI Strategic Priorities:** Support and Strengthen Clubs, Focus and Increase Humanitarian Service, Enhance Public Image and Awareness

**RI Programs, Communications, and Awards:** The Board received a report on Rotary's US$200 Million Challenge, indicating that as of 27 October, RI has received over US$100.8 million toward the challenge. The Board also received an update on PolioPlus, which noted that while four countries remain endemic for the wild poliovirus (India, Pakistan, Afghanistan and Nigeria), much progress has been made in containing the virus from spreading.

The Board agreed to appoint an ad hoc committee to develop the details of a new Rotarian Action Groups (RAGs) pilot project. RAGs under the pilot are to serve as an available resource to one or more of the Future Vision Plan’s six areas of focus. Additionally, these revised RAGs are to be controlled and managed by a seven-member board; they will continue to identify club and district projects that are supported by existing Foundation programs; they will be subject to RI circularization policies; and they will be required to establish a Rotary Foundation donor advised fund to accept all charitable funds they receive.

The Board selected 144 recipients for the 2009-10 Service Above Self award, which recognizes exemplary humanitarian service provided on a continual basis by Rotarians who might otherwise go unrecognized. The names of the recipients will be announced at the end of the Rotary year.

**Kalyan Banerjee is RIPPN 2011-12**

Kalyan Banerjee, a member of the Rotary Club of Vapi, Gujarat, India, since 1972, is the 2011-12 RI president-nominee.

Banerjee is a director of United Phosphorus Limited, the largest agrochemical manufacturer in India, and the chair of United Phosphorus (Bangladesh) Limited. He is a member of the Indian Institute of Chemical Engineers and the American Chemical Society, a past president of Vapi Industries Association, and former chair of the Gujarat chapter of the Confederation of Indian Industry. He earned a degree in chemical engineering from the Indian Institute of Technology, Kharagpur, in 1964.

Banerjee has served Rotary as a director, Rotary Foundation trustee, committee and task force chair, International Assembly group discussion leader, president’s representative, and district governor.

The chair of the Southeast Asia Regional PoliPlus Committee, Banerjee has served as a member of the International PoliPlus Committee for many years and has attended international meetings with the World Health Organization and UNICEF in that capacity.

Banerjee is a Major Donor, Benefactor, and Bequest Society member, and has been awarded the Foundation’s Citation for Meritorious Service and Its Distinguished Service Award.

Banerjee also serves as a trustee of Rotary club-sponsored trusts that support many educational and community development programs in India, including a 250-bed hospital.

He noted that Rotary's strengths include its ability to attract leaders from different vocations around the world, as well as its role in promoting peace.

“Rotary needs to become the preferred organization for today's generation to join and participate in, to make the world better and safer and happier,” he said.

Banerjee’s wife, Binota, is a social worker and Inner Wheel club member. The couple have two children and four grandchildren.

Source: rotary.org

Source: Rotary International
ROAR Communicator - January 2010

ROAR Montreal

ROAR has been granted a special callsign for the Montreal Convention June 18-24, 2010. We are working towards having a remote controlled station active in our booth in the House of Friendship.

The callsign is VC2R

We are looking forward to also have an eyeball QSO with all of you!

ROAR Directory

Preparations have started to bring out the next ROAR Directory. We are looking into the possibility of online updation and will intimate you as soon as this could be implemented. However, if you have a new email id, please intimate the Secretary and Editor immediately.

Amateur Radio and Linux

Current issue (January 2010) of Linux Journal cover story is about Amateur Radio and Linux. Check http://www.linuxjournal.com/magazine

For those without access to the printed version: usually put some of the articles online after a few months.

AT10BP in Antarctica

VU3BPZ, Bhagwati Prasad Semwal, is back in Antarctica again, as he is part of the 29th Indian Antarctic Expedition, which began on November 13th, until March of 2011. He will be located at Maitri Base and will be operating with his VU3BPZ callsign as well as special ROAR

Reminder

Those who have not renewed your membership please visit http://ifroar.org to renew - 1 year US $10, 5 years US $45.

ROAR Information

The International Fellowship for Rotarians of Amateur Radio (ROAR) was first organized by the late Byron Sharpe W9BE, in 1966.

PURPOSE: We provide a forum for the exchange of views between members who share an interest in Amateur Radio, as either licensed Radio Amateurs or as ShortWave Listeners with a view to develop understanding, acquaintance, and fellowship between members worldwide.

ELIGIBILITY: To be a member, you must be a Rotarian, a Rotaractor, a retired Rotarian, or the spouse of a member who is a licensed Amateur Radio operator OR have a genuine interest in Shortwave Radio.

ROAR Officers 2009-12

President Pertti (Pete) Kause EA7GSU / OH1SH (Spain)
Imm Past President John E. Maier W8AVU (USA)
Secretary Dr Elwood Anderson AE5EA (USA)
Treasurer Robert (Bob) L. Butler WB7RQG (USA)
Communicator Editor James Kalassy VU2ARL (India)
Webmaster Bill Main VK4ZD (Australia)

REGIONAL VICE PRESIDENTS

USCB East Jim Moran WI1QUO (USA)
USCB West Chuck Graham K66DCD (USA)
RIBI Mike Sanders G8LES (UK)
AFRICA Contact EA7GSU
ANZO Norm Drench VK3DNE (Australia)
ASIA Tim Masuda JH1NVZ (Japan)
SACAMA Contact EA7GSU
CENAEM Cees Jan van Mourik PA2X (Netherlands)

ROAR Website

In 2004 when I searched for information on ROAR on the Internet I found a website that had not been updated for some years.

I took it upon myself to recover the data from that website and to use it as the basis for a new website with its own domain name - ifroar.org (International Fellowship for Rotarians of Amateur Radio).

The website has evolved over these past 5 years to become a central point for members and others to gain information about our fellowship.

Generic email redirections for officers were introduced by John Maier 3 years ago. Today it continues to evolve as more sophisticated use is made of it to make ROAR's documents and other publications readily available to members.

Y3S,

Yours,

Rtn PP Bill Main VK4ZD,
(RC Gatton & Lockyer, Australia)
Webmaster, www.ifroar.org

ROAR Communicator is published by President Rtn Pertti (Pete) Kause EA7GSU/OH1SH (RC Berahav-Costa del Sol, Spain) for and on behalf of International Fellowship for Rotarians of Amateur Radio. Editor: Rtn James Kalassy VU2ARL (RC Chicago Midtown, India).