



The Pioneer Radiator

Volume 17, Issue 3

Newsletter of the Pioneer Amateur Radio Fellowship, Inc.

April, 2002

Dates to Remember

**April 9th
Business Meeting**

**April 23rd
Fellowship Night**

**Tuesdays
Technician License Class**

Meeting Highlights

Field Day

Kid's Day

JOTA

Committee Reports

Nominations For Officers

HOLLINGSWORTH SAYS "RADIO RAGE" HAZARDOUS TO HAM RADIO

Entering his third year spearheading the FCC's Amateur Radio enforcement effort. Special Counsel for Amateur Radio Enforcement Riley Hollingsworth says "radio rage" could become a bigger danger to the fu-

"That's going to come back to haunt us if we don't just grow up.

ture of Amateur Radio than rule breaking. "It's the infighting and arguments and juvenile spats."



Riley Hollingsworth, K4ZDH, FCC Chief Enforcement Officer

Hollingsworth said this week. "That's going to come back to haunt us if we don't just grow up. It will do the service in, if the ham community doesn't put a stop to it."

Hollingsworth said that he's encouraged that the FCC's enforcement program has the support of "99.9%" of the amateur community and that the vast majority of hams follow the rules. But, he said that radio rage in the form of such things as on-air squabbles or frequency fights can degrade the bands just as quickly as outright rule breaking. The FCC can't do anything about that," he said "It's up to the amateur community."

Hollingsworth said that while much radio rage technically is not illegal, it

(Continued on page 4)

Build Your Own Digital Interface

Part One

Have you thought about trying the digital modes? Wondered about PSK-31? Well, if you have a com-

puter with sound card and a transceiver, you've got most of what you need. You can build this simple and inexpensive interface that will let you try out

those digital modes. This circuit has been floating around the Internet for quite awhile.

(Continued on page 9)

Inside.....

ARRL Seeks to Refarm Novice CW Bands	3
March Business Meeting Minutes	4
DX Happenings	7
Dayton Bus Trip, PARF Logo Items, Interface Schematic	Inserts

MEMBER WELFARE:

Member/Trustee, Dave Raines, KE8HA, is scheduled to have shoulder surgery on Wednesday, March 20th. That will put Dave out of commission for some time. Keep him in your thoughts & prayers. We'll keep you posted as to his condition.

THE NEW FISCAL YEAR IS COMING!

Do you know what THAT means? It means that effective June 1st, membership dues are due. (\$16 per

member, \$1 per each additional family member at same residence) Payable during the month of June, please make plans NOW to get your dues in to our Treasurer (Joy, KA8TDF) promptly, so as not to interrupt your receiving the newsletter, etc.

RETAIL ITEMS

Just a reminder that orders are currently being taken for both PARF retail items and ARRL Field Day items. Contact Joy, KA8TDF, (330-745-5115) for details re-

garding items, sizes, pricing, and such.

Note:
Cutoff for PARF items will be April 9th.

Cutoff for ARRL items will be May 28th.

Club Officers

President

Jim Turner, KB8THW
jturner@ispwest.com

Operations Manager

Jesse Wall, KA8YYZ
ka8yyz@neo.rr.com

Secretary

Dale Malone, KC8DEN
dmalone@neo.rr.com

Treasurer/Trustee

Joy Spencer, KA8TDF
reindeer@juno.com

Trustee

Dave Raines, KE8HA
ke8ha@aol.com

Trustee

Bob Scaffidi, WD8KND
rscaffidi@neo.rr.com

ARRL Liaison/Net Dir

Dick Kovach, WA8KR
rkovach1@neo.rr.com

Net Director

Dave May, WD8QMA
wd8qma@juno.com

Librarian

Cut Witte, KA8QKY

Repeater/Website

Bob Scaffidi, WD8KND
rscaffidi@neo.rr.com

VE Liasion

Ron Lieving, AA8QX

Traffic Coordinator

Steve Hnatiak, KC8IVD
kc8ivd@juno.com

Education Director

Gary Miller, KC8DKC
gmiller1@neo.rr.com

Field Day 2002 Pins and T-Shirts

Show off your support for Field Day with official pins and T-shirts. The commemorative 2002 design symbolizes this year's new Field Day rule that includes the participation of all Region 2 countries (all of North and South America). The T-shirts and pins are a great way to recognize your group's involvement in this popular, annual operating event. Make sure each of your club members has these attractive keepsakes in time for Field Day!

2002 Field Day Pins Size 1 x 1-inch. \$5 each #8708

2002 Field Day T-Shirts—Soft, heavy weight cotton. Unisex sizes: Medium #8716-M, Large #8716-L, X-Large #8716-XL, 2X-Large #8716-2XL

\$12.95 each

2002 [Field Day](#) is June 22-23.



Tony's Corner

This month the club members had their breakfast at Amber's Family Restaurant. We also had three first time participants. They were, Evan with mom, Joy KA8TDF, and Rudy KB8TYM. The rest of us were Barbara KC8SXM, Bill WB8AJR, Curt KA8QKY, and myself, Tony KB8VJC. We had some good fellowship. Hope to see all soon.

73, de Tony

PS; we have another week at the favorite coffee shop.

President's Shack

Welcome to another edition of the Pioneer Radiator. Spring has finally arrived not a bit to late, as this past winter really has not been so bad as it we have had in the past. If you were one of the unlucky ones that might have purchased a new snow blade for your truck with no snow to push maybe next year!

Have you purchased your ticket to Dayton Hamvention yet? If not, it is not too late to get your ticket for the Dayton Bus trip. Please see Joy or one of our ticket representatives. If you are not planning to attend the Dayton Hamvention this year we still need your help promoting our trip with fellow hams that might be interested. If you are not busy the same day that we are taking the Dayton Hamvention on you don't have set idle on that Saturday Morning. Please consider helping with the Akron Pregnancy Services Walk the Walk a thon. Location is the field next to the Haven of Rest on Market St. You are needed for communication purposes with the walk route. If you were planning to walk the route or take a stationary position your help would be greatly appreciated. Please get in touch with Ron Lieving AA8QX and he will line you up where he needs communications. We were needed and appreciated very much last year so don't let us down.

Field Day is just around the corner and we need your help with the planning and running of this year's field day. If you are interested please see Jesse Wall and he will line you up in the area that he needs your help with such as computers for logging, radio equipment & antennas, food & supplies for the operators, publicity a very key job so that we can get the word out where to find us. Please get involved with this years field day you will not be disappointed.

Kids Day is just around the corner in the month of June. If you have a young one or a grandchild and would like them to have a chance to get on the radio waves here is their chance. They will get to give the call out of CQ Kids Day CQ Kids Day just like us older folk do for field but with their younger friends around the radio waves. They will get a chance to exchange their name, the school & grade that they attend and their favorite color. If there is not a big crowd we could extend their conversation to as long as they wish as long as they can get contacts on the radio. Each participant will receive a certificate for their participation. If you would like to help with the operation or promotion of this event please see Bob Reynolds KA8NPR.

We need your help with the following areas Liaison or Coordinator for GLSAR (Great Lakes Search and Rescue), JOTA (Jamboree On The Air), Field Day Coordinator, and with field day there are several key positions under the coordinator. All of the above would be relating their information through our operations manager. If you are interested in helping with our needs please see one of our officers. You might want to volunteer before they come looking for you! Seriously we could use your help as you heard this past month from the trustees report that this is your club so come on out show your support.

I would like to thank those that have come forward already for the Skywarn & ARES Liaison positions and we will be announcing these folks soon so you will know who are liaisons are with these organizations.

Officers Elections are to be held at our May business meeting. Nominations are now being accepted for the offices of President, Operations Manager, Secretary, and Treasurer. If you are interested in taking on any of the above positions please let our nominations committee know or one of the officers.

See you at our next meeting on April 09, 2002 @ 7:00 PM. Our meeting location has changed please follow signs for this meeting. There is a Home School meeting fellowship being held were we normally meet so please do not enter the fellowship hall. Just follow the signs not the smell of good food that they are serving that evening.

73's de KB8THW

Jim Turner Jr., President.

Newsletter Deadline

The deadline for the next issue of the Radiator is April 13th. Please email articles to ka8yyz@neo.rr.com, or to:

Jesse Wall
1264 Brown St.
Akron, OH 44301

Net Control for April

1 **KF8G, BRYAN**
8 **WD8KND, BOB**
15 **KA8NPR, BOB**
22 **WD8MMM, DAVE**
29 **WD8QMA, DAVE**

Members with Birthdays in April

2nd "Ham" Fisher,
WA8FQW

Albert Payne, Student

5th Evan Spencer

7th John Kephart, W8KOQ

11th Joy Spencer, KA8TDF

14th Larry Field, WD8ITF

Paul Jones, KA8WWK
15th Fred Merritt
KC8SNU

21st Kathryn Wall
Student



Radio Rage

(Continued from page 1)
reflects poorly on Amateur Radio and can balloon into an enforcement issue. More important, he said, rude or intemperate on-the-air behavior might provide just the ammunition that an entity seeking additional spectrum will use against Amateur Radio.

Hollingsworth predicted that the departure January 19 of FCC Chairman William Kennard and the changing of the guard at the White House the next day would not alter the course of the current amateur enforcement effort. He said he sees nothing but positive changes ahead.

"I'm willing to bet my SX-115 that we won't miss a beat," he said, referring to one of his latest acquisitions of vintage ham gear. "as

long as the amateur community lets it be known it still wants enforcement.

Hollingsworth said it was pressure from the ARRL and individual amateurs that prompted the resumption of amateur enforcement in 1998 during Kennard's tenure. "and it's the type of program that needs that continual pressure to keep it going," he added.

Overall complaints are down, Hollingsworth said, "but no one can be complacent."

*From January 19th
ARRL Letter*

ARRL ASKS FCC TO ELIMINATE, "REFARM" NOVICE CW BANDS

The ARRL has asked the FCC to eliminate the 80, 40 and 15-meter Novice/Technician Plus CW subbands as such and reuse that spectrum in part to expand the phone allocations on 80 and 40 meters. In a Petition for Rule Making filed March 22, the League requests that the FCC revise its Amateur Service rules in ac-

cordance with the modified Novice band "refarming" scheme the ARRL Board of Directors okayed in January. The Petition has not yet been put on public notice for comment.

"The opportunity to eliminate the Novice and Technician-Plus telegraphy subbands and the re-

Member KUDOS!

George (KC8OFG) just got back from a three week stint with the Red Cross in New York City. He's the third member who has done this. Marty (KC8NOV), Dan (W8DFA) were the other two who have served time there also.

This has all come about since the first of the year.

Thanks!

Goes out to Linda West, KC8RGU for donating a beautiful Goldstar 40 MHz Dual Trace oscilloscope to the club. It is in our club radio room!

Thanks, Linda!

apportionment of those inefficiently deployed segments will allow alleviation of significant, sometimes critical, overcrowding in the popular Amateur HF allocations," the ARRL said in its Petition. The ARRL also cited "substantial advancements in the use of digital techniques" in the HF bands--

(Continued on page 10)

Meeting Minutes for March 2002

By Dale Malone, KC8DEN

The meeting began with a round robin introduction of officers, members, and guests.

Dale Malone - KC8DEN, read the minutes of the meeting of February 12, 2002. The minutes were accepted as read.

Joy Spencer - KA8TDF submitted the Treasurer's Report.

MEMBER WELFARE

Jim Turner – KB8THW announced Ken Melton – WD8MQB's mother-in-law passed away he week of March 3rd.

VE TESTING SESSIONS

Ron Lieving – AA8QX said the next VE Testing Session is scheduled for May 7th at 7:00 PM. He requested candidates for testing to report at 6:30 PM to complete paper work.

BREAKFAST CLUB

Tony Cortel - KB8VJC announced the next meeting of the Breakfast Club would be at Amber Restaurant, 1395 Canton Road at 8:00 AM on Saturday, March 16th.

DAYTON HAMVENTION BUS TRIP – 2002

Joy Spencer – KA8TDF said the cost of the bus trip and a ticket to the HamVention is \$ 46.00. If you purchase the bus ticket only the cost will be \$29.00. Cost of a ticket to the HamVention at the door is \$22.00. Break-even point is 25 seats sold. After 25 the sales are profit for PARF. Jim Turner – KB8THW ask members to advertise the bus trip.

REPRINT OF THE PARF QSL CARD

Jim Turner – KB8THW received an e-mail from Bob Scaffidi – WD8KND. Bob is arranging to have the new QSL cards printed. Bob said the picture of a Conestoga wagon previously selected is not good enough quality. The printer requires 1200 D.P.I. Jim asked for suggestions or pictures from members. The matter was tabled until the next meeting.

FIELD DAY 2002 (FD 2002)

Jim Turner – KB8THW read a list of 7 coordinator positions needed for Field Day 2002. Jesse Wall – KA8YYZ provided the list. Coordinator positions needed for the following:

1. Public Relations:
 - Media coverage.
 - Educate Visitors.
 - Demonstrate Satellite, PSK-31 & Packet.
2. Generators:
 - Procure enough generators.
 - Procure enough cords.
 - Gasoline supply.
3. Food
 - Obtain Food and run Kitchen
4. Transportation.
 - Transportation of all equipment to and from the FD 2002 site.
5. Computers
 - Provide all computers, software and computer operator training.
6. Antennas preparation.
 - Check and repair antennas for FD 2002.
7. Radio Operation
 - Solicit members and get commitments for use of their radio equipment for this year's 4A, FD 2002 operation.

(Continued on page 6)

Meeting Minutes

(Continued from page 5)

SUPER MEETING 2002

Dale Malone – KC8DEN reported on Super Meeting 2002. The meeting: Presented by Canton Amateur Radio Club. Contact is Mike Robinson, President. Involves 10 area radio clubs (so far). 125 registered attendees (so far). Date: March 27 at 7:00 PM. Location: Start County College Campus. Speaker: Joe Phillips, ARRL Ohio Section Manager. No cost, but you must register. Dale said if any PARF members were interested in attending the meeting he would arrange registration.

NEWSLETTER

Jim Turner – KB8THW said Jesse Wall – KA8YYZ needs articles from members for the Newsletter. If no articles are received from members Jesse will fill in with information from QST and ARRL.

REPORT ON OFFICERS/TRUSTEES MEETINGS

Joy Spencer – KA8TDF reported on recent meetings of the Officers & Trustees. A meeting of the Trustees was held on February 25th. A meeting of Officers & Trustees was held on March 5th. The purpose of the meetings was to upgrade the operation of the PARF meetings.

Some members have complained that meetings were unorganized. Others complained that the same persons report and recommend projects most of the time. Joy said Officers & Trustees discussed the PARF Constitution and By-laws during the meetings. Copies of both documents are available to any member. To be better organized meetings will be run according to the PARF Constitution, By-laws and Robert's Rules. Members may notice minor changes to the meetings due to the use of Robert's Rules.

An explanation of Robert's Rules was given.

Officers & Trustees are trying to get more participation of members in activities. Example: The duties of the Operations Manager are overwhelming. Many times the Operations Manager is also assigned the duty of preparation of the Newsletter. Often, if no one volunteers to coordinate a project, the work is assigned to the Operations Manager. The Operations Manager's job is defined in the Constitution as being overseer of Operations. Not having to do the work. Officers and Trustees request, in an effort to make the Fellowship more interesting and better for all, that members accept responsibility of being coordinator of a project or a project committee member when asked by an Officer or Trustee. If you are not fully knowledgeable about the project the Officers and Trustees will assure that you are coached.

For the good of the fellowship and for the good of the members the first purpose for which the fellowship was organized under The Articles of Incorporation reads: "To promote and encourage interest and participation in amateur radio activity". The Officers & Trustees found sometimes talk among members discourages that purpose. Joy stated PARF is not an exclusive fellowship. The fellowship does not discriminate but does follow the Golden Rule on the air and off the air.

At the April meeting Bob Scaffidi – WD8KND will give a presentation on repeater protocol to refresh the membership regarding good operating procedure on a repeater.

Fellowship breakfast meetings have been coordinated by Tony Cortel – KB8VJC. The breakfast meetings have been on the first Saturday following the PARF business meeting. The breakfast meeting is held at a different location each month. The location is selected by Tony. The meetings are mostly for members, although, others may attend. The Officers & Trustees would like to start a second breakfast meeting each month. Probably the Saturday following the Fellowship Meeting. At a set day, set time and set location. This breakfast will be an outreach meeting open to all hams. This meeting will be announced on the repeaters and might attract hams to join PARF. Tony Cortel – KB8VJC made a motion to start a second PARF monthly breakfast meeting. The motion was seconded by Bryan Bartzi – K8FG. During discussion several restaurants were suggested as a location for the new breakfast. It was decided the breakfast would be at 8:00 am. The matter was tabled until April to permit members to find a good location.

The Officers & Trustees will send letters to ARES, RCARC and Skywarn. The letters will be confirming permission for these organizations to use the 147.135 repeater during an emergency or during training for emergencies without further permission from PARF.

Officers & Trustees would like to encourage members to become an Officer or Newsletter Editor and to remain in the position after being elected/appointed. The By-Laws do exempt Officers from paying dues while in office. Officers & Trustees did not consider free dues (\$ 16.00 annually) enough incentive considering the work involved with being an officer. The Trustees recommend offering a free bus ride to the Dayton HamVention. Since the bus is scheduled each year and the bus has never been full, no additional cost to PARF would result. The Trustees also recommend a free

(Continued on page 7)

Meeting Minutes

(Continued from page 6)

Christmas dinner at the annual Christmas Banquet. If all Officers take advantage of the free Christmas dinner the cost to PARF would be a maximum of approximately \$ 50.00. These incentives would become effective after the May 14th elections. Brian Bartzi – K8FG made a motion to provide free bus rides to the Dayton HamVention and to provide free Christmas Dinners at the Christmas Banquet for Officers and the Newsletter Editor. The motion was seconded by Tony Cortel – KB8VJC. After discussion Brian Bartzi – K8FG modified to motion to be effective immediately. Tony Cortel – KB8VJC seconded the modified motion. The motion was passed by vote of the membership.

Joy noted the election of Officers (President, Operations Manager, Secretary and Treasurer) would be conducted on May 14th. Joy encouraged any member interested in being nominated for an Officer position, who has been a fellowship member for 6 months or more, to talk with an Officer and be nominated.

Jim Turner announced the election of PARF Officers would be conducted at the May 14th Meeting. He opened nominations for officers. Tony Cortel – KB8VJC made a motion to create a Nomination Committee. Doug Gardner – KB8PHJ seconded the motion. The motion was passed by vote of the membership. The committee will include Tony Cortel – KB8VJC, Doug Gardner – KB8PHJ and Fred Merritt - KC8SNU.

APS WALK IN AKRON

Ron Lieving – AA8QX will organize the APS walk. He announced this year the walk would be on May 18th. He made a sign up sheet available for those members wishing to assist.

KID'S DAY

Jim Turner – KB8THW said Kid's Day will be on Saturday, June 15th from 2 pm to 4 pm. Bob Reynolds – KA8NPR will organize Kid's Day.

ASSISTANCE FOR THE OPERATIONS MANAGER

Jim Turner – KB8THW said volunteers are needed to reduce the workload on the Operations Manager. He is looking for members to be liaison for JOTA, ARES, Skywarn and GLSAR.

PAYMENT FOR SERVICE OF THE 2-METER REPEATER

Tony Cortel – KB8THW suggested payment to Jim Walker –KZ5AW to reimburse him for the cost of repairing the 2-meter repeater. The matter will be discussed at the Officers & Trustees meeting on April 2nd.

PARF VOTING PROCEDURE

Tiny Mobley – KC8DEU made a motion to restrict PARF voting to show-of-hands voting or secret ballad voting. Dick Kovach – WA8KR seconded the motion. The motion was passed by vote of the membership.

PARF ANNUAL PICNIC

Joy Spencer – KA8TDF announced the annual fellowship picnic would be August 27th at Tuscora Park in Barberton.

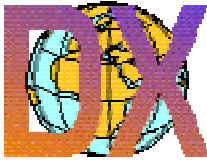
ANNOUNCEMENTS

Doug Gardner – KB8PHJ said there would not be a Goodyear Hamfest this year. GARC does not have enough members to staff the event.

MEETING ADJOURNMENT

The meeting was adjourned by President, Jim Turner – KB8THW

DX Happenings



By the time you get this newsletter, the VP6DI team on Ducie Island will be in full swing. This is the first Dxpedition to this new DXCC entity, thus making it #1 on the DXCC Most Wanted List. The group will concentrate on the higher bands at the beginning and make their low band efforts towards the end of the Dxpedition, around March 27th.

Ducie is a small, uninhabited island in the Pitcairn Island chain. It approximately 2.5 square miles in area and has no known source of fresh water. Pitcairn Island's claim to fame, is that it was the settling place of the mutineers of the HMS Bounty.

3B8 MAURITIUS - Mart, DL6UAA (<http://www.dl6uaa.de>) is expected to be active (on 10-80 meters CW, SSB and RTTY) probably as 3B8MM from Mauritius starting around 25 March for some weeks.

8Q MALDIVES - Igor, RN3OA will be active (on 10-80 meters SSB and CW) as 8Q7OA from the Maldives (AS-013) between 29 March and 10 April, including an entry in the CQ WW WPX SSB Contest. QSL via RN3OA either direct (Igor Zakharov, P.O. Box 381, Voronezh, 394000, Russia) or through the bureau.

9M9 EAST MALAYSIA - Look for 9M9/JL1CHV and 9M9/JM1OYV to operate on HF and 6 meters from East Malaysia between 28 March and 1 April. QSL via home calls.

H4 TEMOTU - Ranko, YT6A is not going to make the Temotu trip with Nick, VK1AA [425DXN 559]. This means that Nick will have to leave part of the equipment in Honiara (H44) and take to H40 the "most important stuff" only - this does not include the WARC antenna and RTTY is also under question. Nick expects to operate as H40XX from Temotu between 24 March and 7 April and then again as H44XX from Honiara, Solomon Islands until 9 April. QSL via VK1AA (Nick Hacko, P.O. Box 730, Paramatta 2124, NSW, Australia). The web site for the DXPedition is at <http://www.qsl.net/vk1aa/temotu/>

KH4, MIDWAY ISLAND - Bill, NH6D, found out late last week he will be heading over to Midway, Monday, March 18th. He is scheduled to arrive there during the evening hours, their time. This is a very short trip. He will depart KH4 during the evening of March 21st (Thursday). Bill is going over on business and has a full schedule, but he is packing his "bug" in the suitcase and will try to get it on the air. QSL is via N6FF.

KH9, WAKE ISLAND. It looks like Bruce, AC4G/V73CW, is once again heading here. His plans are for another, longer, Wake Island operation sometime around June/July 2002. He expects to use the call sign AC4G/KH9. Activity will be on all bands 160-6 meters with a 50/50 mix of SSB and CW. More info is forthcoming.

P5, NORTH KOREA (There still is hope!) - Ed, P5/4L4FN, is reportedly back in Pyongyang. He received good news that his contact has been extended until June 2003. This means Ed will have a chance to work more stations than expected. However, according to the KK5DO's Web site, Ed's current workload is heavy right now. This means he will not be able to be back on the air until March 23rd. There is still much to do in the outlying field stations, so he will be out of town during the week.

VK0 MACQUARIE - Toshi, JA1ELY reports that Peter, VK0MQI (aka VK0AC from ANARE Davis Base in 1998) is a member of the 2002 Australian National Antarctic Research Expedition on Macquarie Island (AN-005). He was expected to depart on 11 March and he will be staying on the island until December. Peter plans to operate on all the amateur radio bands, 6 meters included, in his spare time. Please be patient with him, particularly during the early part of his operation, as Peter "does not have much experience in DXing". QSL via JE1LET (for Japanese stations only) and JA1ELY (others).

XX9 MACAU - Pertti, OH2PM will be active (on 10-80 meters CW and SSB) as XX9TRR from Macau between 26 March and 1 April. On 26, 27 and 28 March, before and after his sunset (10.30 UTC) and sunrise (22.30 UTC), he will concentrate on 30m and 80m CW. QSL via N6XJ.

Thanks to Dick Kovach, WA8KR, the OPDX Bulletin and the 425 DXNEWS for this month's info! Good DX!

Build Your Own Digital Interface

(Continued from page 1)

It is quite exciting to try new modes. Not only does this work on PSK, but also SSTV (Slow Scan TV), and RTTY. It just depends on the software. And, there is some good software out there that is FREE.!

This month we will concentrate on the construction of the interface, and next month we will get into operating on PSK-31. I will give URL's to software ant the end of the article.

How does it work? The interface is quite simple. It primarily provides isolated signal coupling from your computer to your rig. This prevents any ground loops, which in turn can cause hum and other problems.

The receive side takes audio from the radio's speaker, or other audio output source, and couples it to the LINE input of the sound card. R1 is used to set the receive level, as not to overdrive the sound card.

The transmission side takes audio from the sound card, and runs it through a voltage divider consisting of R3 (if needed), R4, and R5. Depending on how you feed the signal into the radio, you may eliminate these resistors. C1 provides RF decoupling. The audio is coupled through

T2 to R6, which adjusts the level feeding the transmitter.

S1A is used to cut the signal off when the PTT line is turned off This is needed when feeding the signal through an input other than the microphone, to prevent your Windows sounds from being transmitted when you are operating normal SSB.

The PTT (Push to Talk) circuit is activated by the software forcing the DTR (Data Terminal Ready) or RTS (Request to Send) high. This activates U1, causing the output to close, and key the rig. D3 provides protection for U1 from the inductive feedback of the radio's PTT relay coil. S1B provides a cutoff to prevent any unwanted key ups. (Take no chances!)

Before you begin heating up the old soldering iron, we need to make a couple of decisions. As you may notice from the schematic diagram, no connectors are specified for the radio side of the interface. This is due to all the various rigs out there. You need to look at how you want to interface to your rig. If you decide to take the microphone jack, construct the circuit using R4 and R5. Only add R3 if you should need a higher audio drive level. If you op to go in the back of the rig to an auxiliary input, you may have to eliminate R3, R4, and R5. Most rigs re-

quire higher drive levels from these connections. Check your manual for your rig. (I fed mine into the back of my FT-1000D, and had to eliminate the resistors.)

Construction of the circuit is pretty straight forward, and requires no special technique. Dead Bug style is OK. Radio Shack part numbers are provided where available, but a good junk box will have most of the parts. One thing to remember is that all cabling in and out of the interface should be shielded. Another suggestion is to use a jack for the radio side. This way if you change rigs, all you need to do is rewire your interface cable. I used a DIN receptacle.

Well, good luck on the construction! Download some software from one of the sites below. Next month, we will check out the interface and operate PSK using the WinPSK software.

SOFTWARE

PSK 31
WINPSK by AE4JY
<http://www.winpskse.com>

SSTV
MMSSTV by JE3HHT
<http://www.qsl.net/mmhamsoft>

Photo of the Month

Here is a QSL card one of our members received. If you have an interesting QSL card, or shack photo, share it with our members by having it printed in the newsletter.





Editor's Key

We've got a big newsletter this month! Been kind of busy here in the shack this month. I managed to work the VP6DI Dxpedition, after waiting four hours! But, sometimes that's the nature of DXing. Patience is definitely called for. The operators are doing a fine job of trying to get as many in the log as possible. I am now trying to get them on RTTY, but as of yet, they don't have it operational. Hope springs eternal!

My Kenwood TS-700S project is moving along. The 700S is an all mode 2M rig. I got it from Bill, WB8AJR, as it died on him, and he is getting a new shiny rig that will replace it. (Thanks, Bill!). I managed to get a problem with the power supply fixed, but still have a problem with the AGC system that I haven't quite figured out yet. I'll keep plugging at it.

Sorry I didn't make the last business meeting, but I promised Gary I would teach one of his classes. Though a small group, they are very enthusiastic, and make great additions to our club. My lecture included basic circuits, safety, and operating practices. After which, we took a "field trip" to the club shack, where everyone got to see our repeaters and station.

I want to thank the class for not falling asleep during my lecture. I promised Gary another class, covering the digital operating modes. I had a great time with the class. I want to thank Gary for inviting me to teach, and the class for their welcoming me. Every member should try to get involved in one of these classes. We all had an Elmer, now it's our turn to be Elmers.

Field Day is staring us in the face, and is getting closer every day. I am still looking for volunteers to head up the key areas mentioned at the last meeting. So, if interested, please give me a call. By dividing the work up, it makes it easier on everyone, and I think gives us a better Field Day, as less will be over looked.

Don't forget that the April Business meeting will have nominations for club officers. So, if interested, consider being an officer. There are a few perks that go with the job, and it is a chance to give back to the club.

Well, enough for now. Still looking for stuff for the newsletter, including shack photos, QSLs, etc.

73,
Jesse , KA8YYZ

ARRL ASKS FCC TO ELIMINATE, "REFARM" NOVICE CW BANDS

(Continued from page 4)

such as PSK31--to bolster its assertion that a reformatting plan for the underutilized Novice HF subbands "cannot wait longer and must proceed now." The reformatting plan adopted was based on the recommendations of the ARRL Novice Spectrum Study Committee following a survey of the amateur community last year. Under the proposal, no operator class would lose privileges, and most would gain.

If the FCC approves the plan, current Novice and Technician Plus (ie, Technician with Element 1 credit) licensees would be permitted to operate on the 80, 40, 15 and 10-meter General-class CW allocations at up to 200-W output. For General and higher class operators, the ARRL wants the FCC to implement changes in the 80, 40 and 15-meter "phone" bands. On 80 meters (3500-4000 kHz), phone privileges would begin at 3725 kHz for Extra, at 3750 kHz for Advanced and at 3800 kHz for Gen-

eral--another 25 kHz for Extra and Advanced operators and another 50 kHz for Generals. On 40 meters (7000-7300 kHz), phone privileges would begin at 7125 kHz for Advanced and Extra and at 7175 kHz for General--25 kHz more for Extra and Advanced operators and another 50 kHz for Generals. On 15 meters (21,000-21,450 kHz), phone privileges would begin at 21,200 kHz for Extra, at 21,225 kHz for Advanced and at 21,275 kHz for General--no change for Extra and Advanced but 25 kHz more for General. On 10 meters, the ARRL has recommended no changes other than to accommodate CW, RTTY and data by Novice and Tech Plus licensees at 28.0 to 28.3 MHz.

The ARRL suggested that its proposed configurations strike the right balance between the need for additional phone spectrum and the important goal of encouraging further development of narrowband data modes in the CW segments. The ARRL's "omnibus" petition also asks the FCC to permit amateurs to

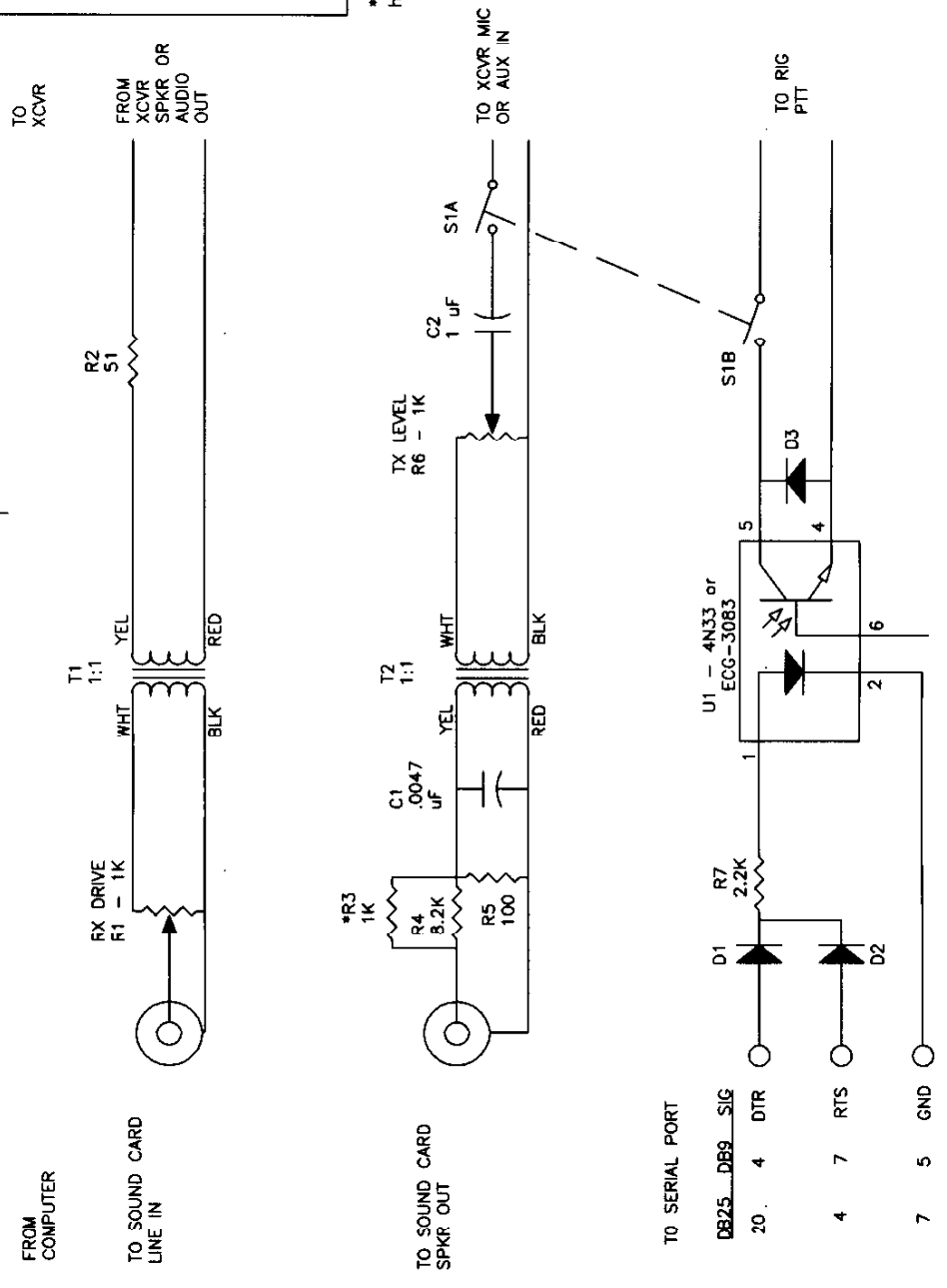
use spread spectrum on the 222-225 MHz band; expand the pool of special event call signs beyond the 1x1 format to include identifiers for US territories and possessions that do not provide for mailing addresses; clarify its rules to indicate that modulated CW (MCW) is permitted for repeater station identification; and to incorporate into its rules a 1990 FCC waiver authorizing amateurs in certain areas of Colorado and Wyoming to operate on certain segments of the 33-cm band. The League invited the FCC to consolidate its omnibus petition with other pending Amateur Radio-related petitions now before the FCC. A copy of the ARRL's complete Petition for Rulemaking is available on the ARRL Web site <<http://www.arrl.org/announce/regulatory/refarm/>>.

from the ARRL Letter

REVISIONS			
ZONE	REV	DATE	APPROVED

PARTS LIST	
C1	.0047 DISC (272-126)
C2	1 uF NP (272-996)
D1-D3	1N914 (276-1122)
R1,R6	1K POTENTIOMETER
R2	51 OHM 1/4W
R3	1K OHM 1/4W (271-1321)
R4	8.2K OHM 1/4W
R5	100 OHM 1/4W (271-1311)
R7	2.2k OHM 1/4W (271-1325)
S1	DPST Toggles (275-636)
T1,T2	1:1 600 XFMR (273-1374)
U1	4N33 or ECG3083 OPTO ISOLATOR

* Only required for rigs requiring higher audio drive levels.



SIZE	FSCM NO.	PROJECT NAME	REV
SCALE	NONE	PSK-31 INTERFACE	
SHEET		1 OF 1	

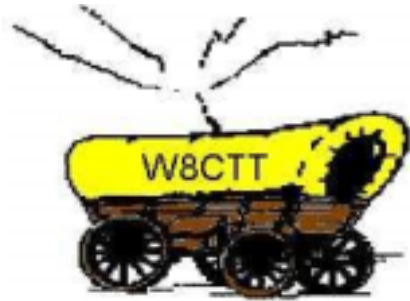
FNAME

REVDATE

USER

MARX

Pioneer Amateur Radio Fellowship Calendar of Events



April 2002

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																											
	1 7:00 PM PARF Net April Fool's Day	2 7:00 PM License Class	3	4 Last Quarter	5	6																																																																																											
7 Daylight Savings Time Begins	8 7:00 PM PARF Net	9 7:00 PM Business Meeting 7:00 PM License Class	10	11	12 New Moon	13																																																																																											
14	15 7:00 PM PARF Net	16 7:00 PM License Class	17	18	19	20 First Quarter																																																																																											
21	22 7:00 PM PARF Net	23 7:00 PM Fellowship Night 7:00 PM License Class	24	25	26	27 Full Moon																																																																																											
28 Canfield Hamfest	29 7:00 PM PARF Net	30 7:00 PM License Class	<table border="1"> <thead> <tr> <th colspan="7">Mar 2002</th> </tr> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> </tr> <tr> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> </tr> <tr> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> </tr> <tr> <td>31</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Mar 2002							S	M	T	W	T	F	S	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							<table border="1"> <thead> <tr> <th colspan="7">May 2002</th> </tr> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> </tr> <tr> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> </tr> <tr> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td>31</td> <td></td> </tr> </tbody> </table>		May 2002							S	M	T	W	T	F	S	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Mar 2002																																																																																																	
S	M	T	W	T	F	S																																																																																											
3	4	5	6	7	8	9																																																																																											
10	11	12	13	14	15	16																																																																																											
17	18	19	20	21	22	23																																																																																											
24	25	26	27	28	29	30																																																																																											
31																																																																																																	
May 2002																																																																																																	
S	M	T	W	T	F	S																																																																																											
5	6	7	8	9	10	11																																																																																											
12	13	14	15	16	17	18																																																																																											
19	20	21	22	23	24	25																																																																																											
26	27	28	29	30	31																																																																																												

Pioneer Amateur Radio Fellowship, Inc.



Dayton Hamvention Bus Trip

Saturday, May 18, 2002

The bus will leave the south parking lot of the Akron Baptist Temple promptly at 5:30 AM.

Bus Fare & Hamvention Ticket: \$46.00*

Must be received by April 23, 2002

Bus Fare Only \$29.00

Any requests received after April 23, 2002

You will need to purchase a Hamvention ticket at the door for \$22.00 on your own.

To order tickets write:

Pioneer Amateur Radio Fellowship, Inc.

2324 Manchester Road

Akron, Ohio 44314

You can also contact the following via phone or e-mail:

Jim Turner Jr. 110-795-1836 jimturner@juno.com

Bob Seuffel 110-658-3611 bobseuffel@netnet.com

Jay Spencer 110-795-8115 jayspencer@juno.com

Deck Kowach 110-929-1018 rkowach1@netnet.com

Web page: www.gla.net/~vllcc



* Ticket fees cover your transportation down and back and entrance to the Dayton Hamvention. There will be a Breakfast & Dinner stop on your own.

Transportation provided by the Crossroads Transportation Company

This is a smoke-free bus there will be No Smoking Permitted

P.A.R.F. Paraphenalia Page

(say that 10 times fast!)



Show off your club colors and logo with the great looking shirts, jackets and hats available from PARF.

JACKETS - Flannel lined navy jacket by Dunbrook (top of the line) with gold screenprinted club logo on back and gold monogram (name and call sign) on left chest. Sizes Small to 3X.

T-SHIRTS - Navy t-shirts (50-50 blend) with gold screenprinted club logo on back. No pocket. Round neck. Sizes Small to 3X.

HATS - Navy baseball style hat (all poplin or poplin/mesh) with club logo.

POLO SHIRTS - Navy shirt (50-50 blend) with gold monogram "PARF Akron, Ohio" on left chest and call sign on right chest. Sizes Small to 3X.

For more information, contact Treasurer, Joy (KA8TDF) at 330-745-5115.

Orders are now being taken thru April 9th, so that everyone can have their apparel for Dayton.

"Anyone who may have placed an order with Joy previously needs to verify that order with her before the April 9th deadline to be included."

The Radiator

Pioneer Amateur Radio Fellowship, Inc.
c/o Jesse Wall
1264 Brown St.
Akron, OH 44301-2268

Mailing
Address
Goes
Here

The Radiator

Pioneer Radiator

The newsletter of the
Pioneer Amateur
Radio Fellowship, Inc.
Published monthly
for the members of
PARF,
ARRL Officials, and
participating clubs.

Total Membership: 114
Licensed: 95
Non-Licensed: 19

Membership is open to
anyone with an inter-
est in Amateur Radio



A Community Service Club Since 1981

W8CTT/R Home of the 147.135 Repeater System

**DON'T FORGET OUR MONDAY NIGHT NET!
147.135 MHz AT 7:00 pm**

Club Website: <http://qsl.net/w8ctt>

In This Issue

Riley Hollingsworth on "Radio Rage"	1
Build Your Own Digital Interface—Part 1	1
ARRL Seeks to "Reform" Novice CW Bands	3
March Business Meeting Minutes	4
DX Happenings	7
Dayton Bus Trip, PARF Logo Items, Interface Schematic	Inserts