



From the Club President...

Full Plate -- Elections, FleaMarket

by Mike Eakins K7OV, President

Hello again! The top thing on our minds as a Board at this time, is the upcoming elections along with the Flea Market. Things that you should be thinking about are whom you are going to nominate for the various open offices, and what you are going to volunteer for to help out the Flea Market workers.

I would like you to remember that our Flea Market supports our Field Day activity as well as the various club functions during the year, such as the Christmas party, the Banquet and awards party. It pays for new generators, antennas, tents when needed and the other nice things we enjoy, such as the rental of Ft. Flagler camping for our Field Day participants. It pays for our new training program, and various committees such as the Public Service Committee. It pays for our Web site and the list goes on. This is the one time of the year when your volunteer efforts are most important to the club!

Did I mention that the Flea Market in itself is a service to the ham radio community, being one of the largest in the area, and thus supporting our hobby in general by providing a forum for hams to exchange, purchase and sell their ham radio gear? And, you get to get in free as a volunteer!!!!

I wanted to say also, please be ready to accept nominations for various offices. One critical office is the office of Secretary. Members who serve in this capacity are limited in how long they can serve consecutively, so, since Dick has reached that golden point, we really need someone to step up. Remember that you can nominate yourself or volunteer if you will. Please come prepared to nominate your favorite person, and if nominated, please agree to serve.

We would very much like to see some new faces in our leadership. You don't have to be a long time member to be a club officer. Don't worry about the meeting times for the Board Meeting, as that can and has been changed in the past to accommodate new board members who can't make the last Wednesday of the month.

I look forward to seeing you all at our next General Meeting on February 16th at 10 AM.

73, Mike Eakins – K7OV

Say it Ain't So!

Contributed by Michael Dinkelman N7WA

From the Investor's Business Daily,
Posted Thursday, February 07, 2008

"Solar activity fluctuates in an 11-year cycle. But so far in this cycle, the sun has been disturbingly quiet. The lack of increased activity could signal the beginning of what is known as a Maunder Minimum, an event which occurs every couple of centuries and can last as long as a century. "

"Such an event occurred in the 17th century. The observation of sunspots showed extraordinarily low levels of magnetism on the sun, with little or no 11-year cycle. "

Mike N7WA writes-- Actually, it's a bit early to be worrying about this and at every solar cycle minimum I've been involved in, the Maunder Minimum gets broached as we anxiously await the new cycle's upward trend. Come on sunspots!

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The *K7LED Relay*, published monthly, is the official newsletter of the Mike & Key Amateur Radio Club. Mike & Key ARC is an ARRL-affiliated club dedicated to the growth and betterment of Amateur Radio.

The club meets at 10 A.M. the third Saturday of every month at Salvation Army Headquarters, 720 S. Tobin Street, in Renton (near the southeast corner of Renton Airport). Anyone interested in Amateur Radio is invited to participate in the Mike & Key ARC and its activities. Annual dues are \$12 for individuals and \$18 for families.



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Web Site

www.mikeandkey.org

Send dues to

Mike&Key ARC
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Renton, WA 98057-4234

K7LED Repeaters

146.82 output / 146.22 input
(PL 103.5)
Tiger Mountain
224.120 output / 222.520 input
(PL 103.5)
Tiger Mountain

Email

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Reflector

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Mike & Key Online -- Several club resources are available electronically:

On the Web — The Club's site at 'www.mikeandkey.org' includes extensive information about Club activities and events, such as: VE testing, membership, past editions of the *Relay* and more.

Reflector — The Club's public message board offers an easy and free way to converse with club members.

To sign up, surf to: <http://groups.yahoo.com/mkarc>.

E-Relay — Want the newsletter in color and a day or two before the print edition arrives by regular mail?

You will also save the club some money in printing and postage costs. To sign up, send a message to the editor: kg7ku@arrl.net.

Upcoming Club Activities - February

by Michael Dinkelman N7WA, Activity Manager

February and March are important months for this Club. The February program will be about the upcoming Fleamarket. You'll have a chance to review the preparations and to ask questions. We'll also be looking for a last few sign ups. If you have already signed up. Your badges should be available for pickup. Else, you can pick them up down at Puyallup.

February is also the time for you to make nominations (or volunteer) for Club Offices. Think about it.

The second weekend in March will bring on one of the most popular Ham events in the Pacific Northwest, our Fleamarket. All hands are needed to turn out for this. It's the main source of funding for this Club and a lot of fun to boot.

The March program will be Club elections.

Finally, Dawn/KC7YYB has scheduled the annual Club Awards Banquet for the end of March. I expect you will be hearing more about that.

Plenty to keep us all busy. Remember, this club is more than a meeting each third Saturday of the month.

Annual Fleamarket Primer

By Michael Dinkelman, N7WA

Realizing that new members to the Club may be hesitant to jump into supporting this event – we here the 2008 edition of our Fleamarket Primer. This is your blow by blow description of how the whole shebang works. All you old timers can skip this. (Then again, maybe you've forgotten something and would like a refresher. Here goes.

Friday, March 7th, at the crack of dawn with roosters crowing, Hal/N7NW is going to drag himself down to the fairgrounds and start measuring the floor for tables and power drops. Gil/W7GIL and his crew will be putting in telephones. Everybody else – please sleep in and have a nice leisurely breakfast. After all, you need to conserve your strength for the next two days.

Somewhere between 9 and 9:30AM – you big and little brutes can show up to start setting up. Even if you aren't a brute, please come on down as there is plenty to do and many hands make for light work. As the power drops go in, we can start putting out the tables and chairs. Be sure to bring gloves and real shoes as we don't want any smashed toes or fingers. We will have about 300 tables to setup and around 500 chairs. With 20 people, we can have the entire two floors done easily in a couple hours. Even if you can't sling tables, setting up chairs is fairly light work and there are other jobs as well such as lining up the tables along Hal's floor marks.

Remember, there is no need to drive on to the fairgrounds itself unless you are bringing setup materials. Park out at the Gold parking lot and come through the Administration entrance just west of the Gold Gate. Badges (if you don't pick them up at the February meeting) will be available at the loading dock until 2PM at which time they will move to and stay at the Gold Gate.

About noon on Friday – we'll take a break for some well-deserved pizza. I expect all the chairs and tables will be setup by this point. Following lunch, there is still plenty to do. The banner has to be raised out front, announcing and talk-in are setup, the tables are numbered, pallet jacks are checked out, registration and the country store are getting ready. We'll be pushing to get it all done as the clock ticks down to the 2PM opening.

At 2, we open the gates to the selling hoards and registration and the pallet crews get to shine. Sellers come in every type of vehicle. Small cars, big vans, and clunkers that don't even belong on the road. Each piled with the same junk... ah... I mean merchandise we saw last year. They race through registration, afraid of losing their place in line. They load pallet upon pallet and we pull each one to its place on the floor. The first two hours will be a mad house – everyone running every which way. It'll eventually slow to a continuous stream, hour after hour. As the sellers get setup, they start haggling between themselves. It becomes a social event as each gets caught up on the news from last year or the previous event. About 7:30PM, we start pushing everyone out the door. The gate closes and the stragglers get unloaded. By 8, we can lock the doors and think about a nice dinner and maybe a few hours of sleep... zzzzz...

BEEP!, BEEP!, BEEP!, ... (I hate that sound)

At 5AM, long before the crack of dawn and before any rooster in his right mind would crow, we are at the Gold gate waiting to get in. We have 1/2 hour before we start letting sellers in again at 5:30. Just enough time for a coffee, to unlock the loading doors, and remind ourselves about how much fun we are having. Then, the unloading process starts up again. Pallets, talk-in, and announcing are busy as is security. Someone need to check electrical cords and make sure fire extinguishers are not blocked. Everyone has a job to do.

As 7:30 rolls around, the ticket booths are prepped and a line has already formed out at the corner. Come 8AM, we are selling tickets and the line makes its way to our front doors. Meanwhile, inside, you would think we had already let the crowds in as the floor is packed with sellers making last minute deals among themselves. By 8:30, we have closed the Orange gate - one half hour to show time. The last of the sellers are unloading and the Fire Department is making its inspection. Get those pallets out of the aisles and stack 'em outside. *[Continued on Page 4]*

FleaMarket Primer... [Continued from Page 3]

Then, it's show time- 9AM! What can I say – it's fun just to pick out a spot that overlooks the front door and watch them come in. I see a lot of friends, waving as they go by. As the buyers enter, they try to decide if their luck would be better upstairs or down. The floor is getting packed. The pallet, traffic, and registration crews get to rest while others on the team are just getting started. The ticket sellers will be busy for hours while announcing and talk-in are helping the lost and confused. Security is trying to keep the people from using the wrong doors and the Country Store is doing whatever it is they do. (Oh! sell – that's right!)

Next door, the VE team will be setting up to administer tests. Small fires come up here and there – a load needs moving, a seller needs tending. But overall, it'll be another fine event and we get to enjoy the event ourselves.

Saturday 3PM – Most of the crowd has cleared. The last of the buyers are trying to eek out deals with the last of the sellers. Empty tables have appeared as sellers have sold out or otherwise packed off and left for the day. It's been a long day and we are all tired of people and radio's. Yet, the great egress is just starting. At 3, we can pass out pallets to the sellers and they can start loading out. As they race to their vehicles, we take away the tables and chairs and start stacking them back up. Over the next 3 hours we will move out all those people it took 2 days to move in. Tempers will flare (but keep smiling), pallets run short, and the elevator will struggle with the load as we all sweat to move people and tables.

But it'll all get done, the floors will be swept and we'll all marvel at the job we've accomplished. As some of us head out for Chinese food, we'll rehash the past two days events, stuff ourselves silly, and pat ourselves on the back and on the belly. After dinner, as we waddle our way to our cars - we'll realize we did it! Another successful flea market... and next year it'll be even better.

Flea Market Focus: Country Store

by Jim Aigner N7MU

The annual Electronics Flea Market is our major fund-raising activity and a great chance to rub shoulders with others who enjoy amateur radio. The Country Store does a brisk business Friday afternoon and Saturday morning. It earns us a 10% commission on most sales and even more on items donated to the club for sale. Any besides that, it's just plain fun. Here are a few painless ways you can make the Country Store a success this year.

Be a buyer. Make it a point during the show to drop by to scan the tables loaded with amateur treasures.

There's an amazing array of electronic and radio equipment – rigs, power supplies, antennas, test gear, tools and supplies, computing hardware and software.

They range from almost new to vintage items, even "boat anchors." Experienced staff can answer questions and offer advice about most items. Be a seller. If you have stuff to sell (you know you do), you can list up to 10 items for sale by completing the consignment form found at the K7LED website. Fill out the form complete with suggested and minimum prices. Then bring your items through registration on Friday between 2:00 and 7:30 pm or on Saturday anytime after 5:30 am. Most reasonably-priced electronic and amateur equipment, software, and notebook computers draw lots of interest. But please don't list any CRT monitors or anything else you aren't willing to pick up if it doesn't sell. Experienced Country Store staff will display and sell your items. If they sell, you can expect a check for the sales amount (minus 10% commission, if you were not a flea market volunteer) within 2 to 4 weeks. In the event they do not sell, you can pick up your items personally from the Country Store after 3:00 pm or have them delivered on a pallet to your waiting truck in the loading area. You will need an admission ticket to attend the Saturday event unless you enter to retrieve your unsold items after 3:00 pm.

Be a volunteer worker. Volunteers with badges working in any capacity during the event can sell their equipment without paying the 10% commission fee. Whether you are a veteran of past Country Store sales or a willing newcomer, we can use your help. Knowledge of electronics and amateur gear and its value is very helpful, but not an absolute requirement. So don't let that discourage you from asking for an assignment.

Sellers can get an advanced copy of the consignment form from the K7LED website at

<http://www.mikeandkey.org/flea.htm> . If you can help for a few hours on Friday or Saturday, contact me or Mike Dinkleman for an assigned time slot (Jim Aigner, N7MU, 253 569-2410 or jimaigner@comcast.net).
Jim, N7MU

Sights and Sounds by Sunrise

by Dawn Humphrey KC7YYB

Ladies and Gentlemen of the Mike and Key, we have planned a great Awards Banquet for you this year.

As announced at our last meeting it will be held on FRI March 28 at the Burien Elks Club on 1st Ave So by Kennedy HS, just north of Fred Meyer. There's lots of parking and a ramp for easy access. The dining area is away from the bar, so that our club members with children will be able to bring them this year, which will mean that we will most likely be able to see members that didn't come the last two years because of the no minors ban.

For the times: NO HOST bar from 6PM until 6:45 when we should all be seated and with some preliminaries

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February 2008

Sights & Sounds... [Continued from Page 4]

out of the way, by 7 PM proceed to the buffet table located behind the head table, one step up. We will have *not two* entrees but **three!** There'll be Chicken cor don bleu, Salmon, and Beef. There will be a salad bar with plenty of good things. The beverage table will have Regular and Decaf coffee and tea.

As to the price, in order to make it available to as many persons as possible, I've negotiated all of these goodies for just **\$15** per person or **two for \$25**. This is to be payable at the Feb meeting and those who aren't sure, can get their name on a list and pay at the March mtg. However; if at the last minute you find that you are able to come, **please come on ahead**, but the price will then be **\$20** ea.

We are expecting from 50 to 60 attendees to be sitting in nice cushy swivel chairs, arranged so that everyone will be able to see the head table with no difficulty. There shouldn't be the cramped feeling that we've had in the past. We're anticipating that this will be a favored place in the future, since we were privileged to get an Elk member's discount, *and* we can have minors attend, which was a drawback before, for our younger members.

Hope to see as many of you, whom we've missed the last few years there this year.

73, KC7YYB Dawn

Public Service Committee Minutes

PSC minutes 01-19-2008

Meeting called to order by Robert at 12:43

In attendance: Hal, Robert, Brendan, Dawn, Dan, Dave, Dick, Carolyn, and Loras

Old Business:

Everyone gave progress reports.

Nets- Robert KD7WNV has been monitoring nets and doing web searching to verify information. There was an observation that we could change the format of this section and maybe make it easier to find a particular net by combining the net name and region.

Repeaters- KD7WNV will be verifying through the new ARRL repeater software, and checking with WWARA.

Hamfests- Dave KB7PSN still working on the list, is about ¼ of the way through. Will contact Seaside regarding having them place an ad.

Exams- Dave KB7PSN no work on this one yet.

Events- Dick WA7NIW, Robert KD7WNV Dick will continue with Seafair events, and Robert will take the various fundraising walk events.

Club Contacts- Steve KD7IQL top half, no report. Hal N3YX bottom half, working through his half.

Advertising- Brendan reported two quarter page ads, Radio Club of Tacoma and another organization. Also ads for Top Hat, and Hotpress. HRO and Seafair are in the works. Robert reports a 70% chance of an ad for ESCA-RACES. Carolyn has a possible lead for an ad for Vetco.

There was a suggestion that we ad the 222 repeater to the front of the booklet, and also include them on the back.

K7LED Relay

Discussion of the cover color was lively as usual. The range of suggestions was as wide as the spectrum, with the preference being something like Yellow, which we haven't done for a while.

We need to report all progress as we continue toward the end of the countdown. There are only three weeks to go until the pre publication work party.

We will be meeting at Brendan's on Feb. 9, 1:00 to work on the booklet.

Mike&Key General Meeting Minutes

held 01-19-2008

Officers present:

x President – Mike Eakins (K7OV)

_ Vice President – Mitch Gill (NA7US)

x Secretary – Dick Radford (WA7NIW)

x Treasurer – Carolyn Pasquier (WV7Q)

x Activity Manager – Mike Dinkelman (N7WA)

x Radio Officer – Paul Roth (N7DOH)

Trustees present:

x No. 1 – Frank Tate (NA7O)

x No. 2 – Gil Drynan, (W7GIL)

_ No. 3 – Terry Barham (WA7PML)

x No. 4 – Steve Cook (KD7IQL)

x No. 5 – Hal Mueller (N3YX)

President Eakins called the meeting to order at 10:05 AM at the Salvation Army building in Renton, Wa.

All members and guests recited the Pledge of Allegiance.

President Eakins made several announcements: The Mike & Key ARC is affiliated with the ARRL, which members are encouraged to join; everyone, including visitors, should sign the rosters; visitors are reminded not to vote on membership matters; smoking is allowed in the parking lot but not in front of the chapel.

Members and guests introduced themselves. This month's question was, "In 2008, what would you like the Mike and Key ARC to teach you about Amateur Radio? The range of answers should provide plenty of choices for future programs.

Quorum present.

Minutes: Motion to approve the minutes of the previous meeting as printed in the *K7LED Relay* made by Sam N7RHE and seconded by Gil W7GIL. Motion passed.

Officer Reports:

President – Mike K7OV.

Vice President – Mitch Gill NA7US: Not present, One applicant was present, Jessie Vaughn no call yet. In spite of saying that Littlejohn is her favorite, she was approved by the membership.]

Secretary – Dick WA7NIW: Club Audit Committee has completed its audit and all is in order. The Salvation Army sent us a thank you notice for our help ringing bells. Our members raised \$836.77 for local programs.

Treasurer – Carolyn WV7Q: The Club's books are in good order. Gave Balance Sheet summary. Our cash flow looks good for this year's budget items. The CD is due to be renewed, and is looking for suggestions as to where put our money to get the best rate.

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February 2008

General Mtg Mins... [Continued from Page 5]

Activity Manager – Mike N7WA: Need volunteers for the Flea Market. Announcing and Tickets need more people, as does the Country Store. There is a volunteer to chair the banquet.

Chairman of the Board – Steve KD7IQL: This month's Board meeting will be at the Issaquah Round Table Pizza on Gilman Boulevard. Look for the Jack in the Box sign. We are booked there for the January and February meetings.

Radio Officer – Paul N7DOH: Nothing new to report.

Relay Editor – Gary KG7KU: Thanks for the relay articles, we need more from a wider variety of people.

Webmaster – Jim KD7BAT: The web page has been updated with new information about the Flea Market.

Standing Committee Reports:

Strategic Planning – Frank NA7O: Nothing to report.

Facilities –: Terry WA7PML:

Education –: Hal N3YX: Tim K7ANE reported on the class that the club sponsored. Hal N3YX requested that people who are interested in upgrading to Extra let him know what areas they are in need of help with.

Public Service – Gil W7GIL: committee will meet after the club meeting at the Cedar River Smokehouse.

Technical – Steve KD7IQL: No report

VE Exams -- Scott AG7T: Since the last meeting the VE team has given 52 tests with 40 Technicians, 5 Generals, and 4 Extras class licenses issued.

Flea Market – Hal N7NW / Mike N7WA: Need volunteers for the Flea Market. Announcing and Tickets need more people, as does the Country Store

Field Day -- Steve KD7IQL / Brendan KD7IKV:

Awards Banquet – Dawn KCYYB: The banquet will be on Friday, March 28, at the Buriel Elks club.

Old Business:

Alligator Award- This month the award went to Michelle WA7PVE

New Business

Deborah Needham has invited the Mike and Key members to visit the Renton EOC on February 7th 7:00 PM. Another night in February, she will be holding an orientation for anyone who is interested in helping out the Renton EOC team.

Steve KD7IQL opened nominations for club officers and trustees to be elected at the March meeting.

President- Tim Kane K7ANE

Vice President- Mitch Gill NA7US

Secretary-

Treasurer- Carolyn WV7Q

Activities Manager- Michelle WA7PVE

Trustee #2- Jeff KE7FRJ, Steve KD7IQL,

Trustee #4- Gil W7GIL,

Good of the Order –

Everyone is encouraged to sign up for the FleaMarket.

Renton residents are encouraged to sign up for a picnic location for the August meeting date.

Tall Ships is coming to Tacoma in July and volunteers are encouraged to sign up early.

The Mike & Key Board next meets at Round Table Pizza in Issaquah.

The next Mike & Key General Membership meeting is February 16.

There being no further business, Brendan KD7IKV moved to adjourn. Motion passed, and President Eakins closed the meeting at 11:19 AM

Attested: Dick Radford WA7NIW, Secretary

K7LED Relay

Mike&Key Board Meeting Minutes

held 01-30-2008

Officers present:

XPresident – Mike Eakins (K7OV)

_Vice President – Mitch Gill (NA7US)

_Secretary – Dick Radford (WA7NIW)

XTreasurer – Carolyn Pasquier (WV7Q)

XActivity Manager – Mike Dinkelman (N7WA)

XRadio Officer – Paul Roth (N7DOH)

Trustees present:

XNo. 1 – Frank Tate (NA7O)

XNo. 2 – Gil Drynan, (W7GIL)

_No. 3 – Terry Barham (WA7PML)

XNo. 4 – Steve Cook (KD7IQL)

XNo. 5 – Hal Mueller (N3YX)

Visitors in attendance:

Robert KD7WNV

Dawn KC7YYB

Dave KB7PSN

Dan N7QHC

Chairman Steve KD7IQL called the meeting to order at _7:00_p.m.

Minutes: A motion to approve the minutes of the previous board meeting, was made by __Mike (K7OV) _ and seconded by __Gil (W7GIL) __. Motion passed.

Officer Reports:

Chairman of the Board – Steve KD7IQL: Talked about length of meeting

President – Mike K7OV: Nothing to report

Vice President – Mitch NA7US: 3 new applications Gill reporting David Green (No Call) approved, James Boldway (KE7PBB) approved, David L Brinkmann (N7UNN) approved

Secretary – Dick WA7NIW: Mike N7NIW Picked up Mail

Treasurer – Carolyn WV7Q: The Club's books are in good order. Gave Balance Sheet summary. CD came due and was rolled over at a rate 3.85. Talked about club Jackets Nylon or flannel Vest.

Activity Manager – Mike N7WA: Program this month Flea market. Next month's program is election. April program is something about sat.

Radio Officer – Paul N7DOH: Looking to start working on the new repeater in March.

Relay Editor – Gary KG7KU: Not here

Webmaster – Jim KD7BAT: Not here

Standing Committee Reports:

Strategic Planning – Frank NA7O: QRU

Facilities –: Terry WA7PML: Not Here

Education –: Hal N3YX: Talking about Extra class. Polling for extra class

Public Service – Gil W7GIL: Robert reporting adds from HRO, Seafair, Cedar river smokehouse and hotpress.

Technical – Steve KD7IQL: Talked about getting help for working on the club station.

VE Exams -- Scott AG7T: NA

Flea Market – Hal N7NW / Mike N7WA: Still looking for more people. Next Meeting Feb 5th.

Field Day -- Steve KD7IQL / Brendan KD7IKV: no report at this time.

Awards Banquet – Dawn KC7YYB: Last Friday of Mach 28th Buriel Elks Club. No Host 6:00 to 7:00. Price is \$15.00

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Board Meeting Mins... [Continued from Page 6]

Celebrate Our February Members...

by Carolyn Pasquier WV7Q, Treasurer

or two \$25.00 Pre Reserve or 20.00 at the door. Dawn will take reservation at the next club meeting. Max of 60

Old Business-

Mike K7OV Talked with Cap Terry. 2 members of there congregation where given a comp for a tech class. They passed the tech class

New Business-

Looking at an old army flood light trailer.

Public Service committee is working on getting the Public service net restarted. With getting general membership involved.

Robert talked about meeting time and date for the board meeting.

Mike K7OV Commented about repeater usage. People are using the repeater with out allowing others to user the repeater.

Frank NA7O Talked about the cell phone

Good of the Order- Nothing for the Good of the Order.

There being no further business, __K7OV__ moved for adjournment. Motion Passed and Chairman Steve closed the meeting at __830__ pm.

Attested: Steven Cook KD7IQL

As of February 2008, these folks have been Mike & Key members for the number of years stated.

Congratulations to all of you, and thanks for your participation and service.

Each of you makes us who we are.

Hal Goodell	N7NW	34 Years
Harry Lewis	W7JWJ	34 Years
Mary Lewis	W7QGP	34 Years
Victor ZumBrunnen	WB7TBR	23 Years
Dean Holtan	N7NKO	18 Years
Ned Ackerman	N7PWR	17 Years
Sandy Dunkel	K7OZY	17 Years
Rick Danielson	K7RIC	14 Years
Lyman Fitzgerald	KA7OES	14 Years
Adrian Roth	KB7BVL	12 Years
Paul Roth	N7DOH	12 Years
Brendan Burget	KD7IKV	8 Years
Curtis Hanner	N7MWC	8 Years
Dawn Hanner	N7VWH	8 Years
Paul Donner	KD7SSD	5 Years
Chuck Richardson	N7LMT	3 Years

Focus: Fastest Transistor

Contributed by Jim Etwiler KD7BAT

NGC Develops World's Fastest Transistor to Support Military's Need for Higher Frequency and Bandwidth News Category: [Defence-Land][Defence-Air][Defence-Naval] (Redondo Beach, Calif., December 11, 2007) -- Northrop Grumman Corporation (NYSE:NOC) has set a new world record for transistor speed with an ultra-fast device that will provide much higher frequency and bandwidth capabilities for future military communications, radar and intelligence applications.

The company has produced and demonstrated an indium phosphide-based High Electron Mobility Transistor (InP HEMT) with a maximum frequency of operation of more than 1,000 gigahertz, or greater than one terahertz. Researchers at Northrop Grumman's Space Technology sector, led by Richard Lai, detailed how they developed the terahertz-speed transistor in a technical paper delivered today at the 2007 International Electron Devices Meeting in Washington, D.C., sponsored by the Electron Devices Society of the Institute of Electrical & Electronic Engineers.

"This represents, to the best of our knowledge, the state of the art in high frequency transistor capability," according to Dwight Streit, vice president, Technical Development and Microelectronics Technology at the company's Space Technology sector. "These advance-ments will enable a new generation of military and commercial applications that operate at higher frequencies with improved performance."

The terahertz transistor is the latest generation in a long line of compound semiconductor products that Northrop Grumman has produced by the millions for government and commercial uses, Streit noted. Tests conducted by NASA's Jet Propulsion Laboratory in Pasadena, Calif., validated the ultra-fast transistor by measuring a three-stage millimeter wave integrated circuit amplifier at 340 gigahertz with greater than 15 decibel gain.

Mike & KeyARC Audit Report...

MIKE AND KEY
AMATEUR RADIO CLUB
General Account

January 19, 2008

From: Audit Committee

To: Mike and Key Amateur Radio Club

Subject: Audit for fiscal year 2007

On January 19, 2008, the listed members conducted an audit of the Club's financial records for the purpose of preparing this report.

REVENUE

Revenue was traced from receipt records, club meetings, etc., through recording and deposit. In addition a review was made of the monthly bank reconciliation's and the timing of deposits. No discrepancies were noted.

EXPENDITURES

In reviewing expenditures and associated disbursements we took a monthly sampling of invoices and requests for reimbursements. In each case the items were confirmed for authorization. No discrepancies were noted.

COMMENTS

It is the opinion of the undersigned that the financial records of the Mike and Key Amateur Radio Club represent a fairly accurate record of cash receipts, disbursements, and deposits for the fiscal year 2006.

Signed by Members of the Audit Committee

Sam Sullivan N7RHE Chair
Gil Drynan W7GIL Trustee
Frank Tate NA7O Trustee
Jack Burrell N7ZS
Dave Smith KB7PSN

Ham Nets & Events for 2008 -- FEBRUARY / MARCH

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10 2000 -- King Co. ARES 147.08 (Weekly) 2200 -- NW Astronomy Net 145.33 (Weekly)	11 0545 & 1645 -- Weather Net 145.33 (M-F) 1730 -- Puget Sound Traffic Sys. 146.82 (Daily) 1900 -- Seattle ACS 146.90 (Wkly)	12 2000 -- Snohomish Co. RACES 146.92 (Weekly)	13 2000 -- General Tech Info 145.33 (Weekly) 2100 -- NW/SOAR Net 146.82 (Weekly)	14 1900 -- M&K Public Service Net 146.82 (Weekly) 2000 -- Computer & Packet Net 145.33 (Weekly)	15 2000 -- Youth Net 145.33 (Weekly)	16 1000 -- M&K Club Meeting, Renton, WA 1300 -- Ham Radio Exams, Renton, WA 2000 -- Amateur TV Net 147.08 (Weekly)
17 1915 -- Kids Net Net 145.49 (Weekly) 2030 -- Snohomish Co. ARES 146.92 (Weekly)	18 1800 -- WA Emerg. HF 3.985 (Weekly) 1830 -- WA ARES 3.985 (Weekly) 1930 -- PSRG 146.96 (Weekly)	19	20	21	22	23 0900 -- WA ARES HF Net 3.985 (Weekly)
24	25 2000 -- YL Net 145.33 (Weekly)	26	27 1900 - M&K ARC Board Meeting	28	29	01 MARCH
02	03	04	05	06	07 [Mike & Key Flea Market Setup -- Puyallup Fairgrounds] Relay Articles Due	08 Mike & Key Flea Market -- Puyallup Fairgrounds