



The Prez Sez
Alan Hughes, KB7SVU

I hope everyone had a great Christmas and a Happy New Year. We made it into the new millennium without any trouble. I had planed to be up all night but was able to be in bed by 12:30 AM, boy was I glad. I feel that it was better to be ready and have nothing happen than to be unprepared and have major problems.

What will the new millennium bring for the Mike and Key ARC? As I go though all the things that the club does I feel that for the most part we are well off. Financially we are in good shape, Education is doing great with the classes, the flea market is in good hands and is the largest in the area, and Field Day is a huge success.

At the meeting in December we passed the budget in which was a scholarship award. Because of this I need to appoint a committee to work out the finer points in awarding the funds. If you are interested please let me know by the January meeting as the board wants ideas by the February Board meeting.

General Meeting Minutes, 12/17/99
Joyce Stroehel, N7JPW

Officers Present: President - Alan (KB7SVU); Vice President - Calvin (KC7IYP); Secretary - Joyce (N7JPW); Treasurer - Chuck (WA7EBH); Activity Manager - Tressie (KC7BAL); Radio Officer - Harry (W7JWJ); Trustee #1 - Jack (N7IHS); Trustee #2 - Nils (WB7TJK); Trustee #3 - Jim (W7FKI); Trustee #4 - Mike (K7JML); Trustee #5 - Mike (KB7YXB).

The meeting was called to order at 10:00 AM with all members and guests repeating the Flag Salute at the Salvation Army Building in Renton. Please announce your name and call clearly for the secretary.

Minutes: It was moved, seconded and passed to approve the minutes of the November, 1999 meeting as printed in the RELAY.

Introductions of members and guests were done. Members are asked to take breaks on the West Side of the building at the request of Salvation Army. The coffee and donut fund is self-supporting. We are an affiliated club, please be a responsible member and join the ARRL. Please sign the rosters at the table. Visitors are asked to refrain from voting on club matters requiring a vote.

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Officer Reports

President: Alan (KB7SVU) Christmas party was great. Thank you to Jan (K7YH) for doing a nice job. Salvation Army's red bucket passed around at the party and is being passed around at the meeting today. Club is doing well. Make 2000 even better.

Vice President: Calvin (KC7IYP) presented new member certificates to those voted as new members. New member applicant, Bob Welch (W8MCJ) approved for membership by the members. ARRL has scheduled a Kid's Day on 2 meters at 145.330 on Jan 1, 2000 from 1800-2400Z.

Secretary: Joyce (N7JPW) has no report.

Treasurer: Chuck (WA7EBH) reports books are in good standing. Books available for members to see.

Activity Manager: Tressie (KC7BAL) has raffle tickets available. Will raffle prizes at end of the meeting. Program today will be on visiting and enjoying the upcoming holiday. Prize donations from Radio Depot, Primo Office furniture, Auburn.

COB: Mike (K7JML) Merry Christmas and Happy New Year from the board. 2000 budget proposal approved by the board to be presented to the general membership, seconded by Chuck (N7STR), opened for discussion, questions. Scholarship money has been included for licensed hams for college. Moved and seconded to pass the proposed budget. A vote by ballot requested by Nils (WB7TJK). A quorum was declared. Results: Yes - 49; no - 7; abstain - 1. The 2000 Budget was approved.

Radio Officer: Harry (W7JWJ) states all repeaters working well. WWARA dues are paid. Incorporation renewal papers filed with the state for non-profit status. QSL card originally sent by Pop Brown in 1963 presented to the club archives. Harry sent Mrs. Pritchard a thank you letter for sending the QSL card. Amateur radio exams were given to 20 kids at Lakeview Middle School in Kirkland. All passed the Technician plus test. 1 adult also passed.

Relay Editor: Jack (N7IHS) The winter roster will be available next meeting. Give corrections, additions to Jack.

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Committee Reports

Those committees not reporting in the RELAY are asked to report now.

Repeater: Jack (W7JTB) gave a report on the article concerning coordination councils need to be for the good of all hams, not just repeater owners. New ruling out of a California squabble that went to a congressional member and FCC.

Education: Technician class to be held Feb. 25,26,27,2000. Members are asked to take fliers regarding the class when they visit Radio Shack.

Banquet: Will be held on April 1, 2000, H.D. Hotspurs in Kent. Dinner hour will be earlier this year.

Field Day: Jan and Dean starting the planning.

Alligator: Dean (N7NKO) presented to Frank (K7VMG).

Input box: Flea Market sign-up sheets are on the tables. January is the last time for sign-ups. Badges to be made and passed out in February. Logo Committee has numerous gifts that can be purchased.

Good Of the Order

Tressie has more tickets to sell. Must be present to win.

There being no further business, it was moved, seconded and passed to adjourn the meeting.

Relay Deadline

Submittals for the February Relay are due to the editor by February 9th, 2000. Early submittals would be appreciated.

**From The W7JWJ Notebook
Operation Upgrade
The Future**

We have just passed the century that spawned the industrial revolution and we are now entering the Information Age. What will the future bring? In less than a decade we will be hosting the Seattle World's Fair. Educational is a big word, but in no interpretation of it has it ever been as significant as in connection with this fair. The latest developments of modern science and the latest of all devices and implements to be used as a short cut in the saving of time, labor and money in social, commercial and industrial fields will be exhibited and demonstrated for the many thousands of visitors from all over the world.

At the center isle will be the wireless telephones certain to capture the attention of the fir attendees, and change them from casual visitors into interested investigating committees and they will carry home with them information changing them into warm supporters of the art of wireless telephony.

In a single visit, hundreds from inaccessible spots,

rural districts, and townships will learn as much as they would in years of reading and study.

Nestled in a forest of firs that have rested secure for years as an unused portion of the University of Washington campus, is the 250 acres of Exposition ground to be the site of this Seattle World's Fair that will tell the story of the worlds broadening and merging toward on great international realism of art, with neither boundaries nor provincialism.

Did I mention that I'm paraphrasing the words of the late Sylvester Sullivan who wrote about the great Seattle World's Fair in the year 1809?

Should we have a fair in 2009 could not those words of nearly 100 years ago ring true today? At the next fair will not those visitors from around the world learn as much in a day as they would in a lifetime of reading and study?

We have just turned a corner exiting the Information Age and entering the Knowledge Age. In the age of knowledge the historical education systems will change dramatically and soon. Students will learn in a day with the ad of high speed Internet and wireless the knowledge that once could only be acquired in a lifetime of conventional classroom study. No longer will the school systems of yesteryear dominate the learning process. Those desiring to learn will study what they wish to study and when they wish to learn it.

My father at age 87 took his first airplane flight and noted that he had seen more of the countryside, on his first trip to visit his grandmother when he was but 4 years of age. Sitting on his mother's lap on a wooden sled they were pulled by two oxen the 17 miles to Grandmas at a speed of 3 mph. H commented. "Going from an ox sled to a jet aircraft in ones lifetime is indeed a long step, but what will your grandchildren see in the future?" Stay tuned, the future is upon us!!

February Classes

Chuck Benefiel, N7STR

The Mike and Key ARC Education committee will hold a class for those interested in obtaining a Technician Class amateur radio license. The class is scheduled for February 25 - 27, 2000 to cover just one weekend. Friday evening, 6:00 PM to 10:00 PM, Saturday 8:00 AM to 5:00 PM (bring a lunch), and Sunday 8:00 AM to 5:00 PM (bring a lunch). The *cut-off date* for registration will be February 18th, checks and registration in our hands. The *class size* is limited to the first 16 students to sign up. The class will be held at the Boeing Kent Recreation Center, 22349 - 83rd Ave. S. (West of East Valley Road near 224th), Kent WA.

The instructors will be using the book "Now You're Talking!" with additional class notes and videos. The cost is just \$45 and includes the book

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"Now You're Talking!" a copy of the class notes, sixteen hours of instruction, and one VE-license testing session Sunday afternoon. To register, contact Chuck Benefiel (N7STR) at 253-312-5341 or Jim Etwiler (KD7BAT) at 206-633-1512. A copy of the flier announcing the class with schedule, location, and registration is available through the club WEB page at:

<http://www.mikeandkey.com/education.htm>

Questions about the class can be e-mailed to:
info@mikeandkey.com

You may register by sending a check or money order payable to the "Mike and Key ARC" for \$45 per person in the class. Please include your name address and e-mail address (if you have one) and send to:

Chuck Benefiel, N7STR
 Education Chairman
 P.O. Box 166
 Sumner, WA 98390.

Thank you for your interest, and if you have any questions you may e-mail me at:

cbenefiel@sprynet.com.

Happy Millennium to All from the COB

Mike LaFerla, K7JML

At the December Board meeting we discussed forming a committee set up a plan for operating the Scholarship Fund. At the January meeting, Alan (KB7SUV) will be asking the membership for volunteers to serve on this committee. If you have a specific interest on how the scholarships will be given out now is your chance to put it in the plan. We're hoping to have the plan completed and approved by the Board at the February Board meeting. Harry (W7JWJ) reported that the Club was registered with the state for another year.

The Board meeting is not a top-secret function the meetings are open to all members who want to attend. We meet at the Salvation Army HQ the last Wednesday of each month. The meeting starts promptly at 7:30 PM. Please feel free to attend.

Winter Roster

Jack Grimmert, N7HIS

There has been discussion at number of Board meetings concerning the distribution of the Mike and Key ARC Rosters. A lot of time is required to get the rosters ready for mailing (labels, stamps and stapling). In addition there is the postage cost. We also have the problem that many members want the roster sorted by callsign while an equal amount want it sorted by last name.

To try to solve the problems, the Board approved the following plan. The roster will be available at the General Membership Meetings only, no general mailing to the membership. However, rosters will be mailed to members residing out-of-state and in eastern Washington. There will be two editions, one sorted by last name and one sorted by callsign, available to members.

Under this plan, the Winter Roster for the Mike & Key ARC will be available at this January meeting. Copies will be available at the February and March meetings as well, for those who can't make all of the meetings.

Education Committee Report

Chuck Benefiel, N7STR

The following club members were present for the Education Committee Meeting on January 4, 2000, which met at 6pm at Denny's Southcenter. Mary Lewis, Bob Storwick, Jim Etwiler, Ryan Martin, Chuck Benefiel, Tressie Hughes, Alan Hughes, and Harry Lewis.

We discussed the upcoming class February 25, 26 & 27th, distributed teaching materials to the teachers, and the format.

We discussed the future needs for a General Class, and the new license structure issued by the FCC effective April 15th. We decided to conduct a General License element 3B class in March, date and location to be determined. Several of the teachers for the Technician Class volunteered to participate in conducting the class. It will be open to all Hams and will be conducted over a 3 day weekend period. An announcement will appear in the relay.

We discussed the format for the class, and this too will be determined in February. Harry Lewis will attempt to secure a Renton Red Cross facility for the class.

We also discussed upcoming commitments for books for schools. The committee adjourned at 7:30pm.

Radio Officer Report

Harry Lewis, W7JWJ

During the late 1950s, new FCC standards for commercial mobile radio equipment caused the release of thousands of ex-taxicab radios to the surplus market. These FM radios were soon acquired by active Ham operators and narrow banded from a 30 kHz deviation to 15 kHz. Many pairs of these radios were also modified to work as repeaters and thus the beginning of the Mike & Key ARC two-meter repeater, which was placed on the air more than a quarter of a century ago by W7RC.

With the proliferation of repeaters on every

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mountaintop, the necessity arose to coordinate frequencies to reduce the possibility of mutual interference and thus was born numerous repeater-coordinating associations. These counsels functioned for the best interest of the repeater owners. The Mike and Key ARC belongs to one such association, The Western Washington Amateur Repeater Association (WWARA).

In most of the Western States these association recommended a separation between repeaters of 20 kHz and an input/output frequency separation of 600 kHz. Most commercial systems now use a separation of 12.5 kHz. Recently one such association recommended changing repeater frequency separation in their area. This was challenged by several repeater users who wrote numerous letters to the FCC and their congressperson. The result was an 'opinion' released over the authorship of Ms. D'wana Terry, Chief of the Public Safety and Private Wireless Division of the FCC's Wireless Telecommunications Bureau. This 'opinion' effectively became the 'rule'.

Ms. Terry stated that any entity (repeater association) considering the concerns of repeater owners would not be considering the concerns of users of the spectrum affected by repeater operations. Such an entity can be replaced by repeater operations and that such an entity can be replaced by a broad base of local amateurs choosing another frequency coordinating entity and then recognizing that entity's decisions.

It is now necessary for each repeater association to re-evaluate their direction with perhaps modification of their by-laws and constitutional organization. That new direction now must be adjusted to recognize the user of the repeater and his or her concerns. The WWARA is doing just that and is seeking your input.

As a member of the Mike and Key ARC you are not only a repeater user, but share in the ownership of the club's repeater and share in the Club's membership in the WWARA. Please visit the WWARA homepage at

<http://www.wwara.org>

and specifically leave you constructive suggestions and comments at

http://wwara.org/problems_comments.htm

Element 3B Classes

Chuck Benefiel, N7STR

The Mike and Key Amateur Radio Club will conduct a 3-day weekend class, beginning on a Friday, and ending on a Sunday for the Element 3B General Class of License. Anyone wishing to sign up should have a Technician Class and or Technician Plus Class license. At the end of the class on Sunday a VE Exam team will conduct testing. Although not required for the course, students should procure their own ARRL General Class License Manual to study

prior to taking the class. These are available from your local Ham Radio Stores. There will be printed material supplied for use in the class. Cost is yet to be determined, but estimated to be under \$45. Signup will take place at the next club meeting, and or by mail to:

Chuck Benefiel

P.O. Box 166

Sumner, WA 98390.

Please supply your name, address, phone, e-mail address, callsign, and a check payable to the "Mike and Key ARC".

If you would like to participate as a student in this class, and wish to be notified of the date, prior to registering, send e-mail to:

<cbenefiel@sprynet.com>,

and I will notify you of the date, location and times, along with a registration form, by e-mail. If you don't have e-mail please see Harry Lewis, or me at the next meeting or call us at

Chuck Benefiel (N7STR) 253-312-5341

or

Harry Lewis (W7JWJ) at 206-523-9117.

Board Meeting Minutes, 12/29/99

Chuck Stroehrer, WA7EBH

Officers Present: President - Alan (KB7SVU); Treasurer - Chuck (WA7EBH); Activity Manager - Tressie (KC7BAL); Radio Officer - Harry (W7JWJ); Trustee #1 - Jack (N7IHS); Trustee #2 - Nils (WB7TJK); Trustee #4 - Mike (K7JML); Trustee #5 - Mike (KC7YXB).

Visitors: Mary (W7QGP); Dawn (KC7YYB); Dan (N7QHC); Dick Vance (K7NEX); Jim (KD7BAT).

The meeting was called to order by COB, Mike (K7JML) at 7:36 PM at the Salvation Army, Renton.

The minutes of the previous meeting approved as printed in the RELAY.

Officer Reports

President: Discussion on request to send letter to WWARA in support of action. (See Radio Officer) Decided that until WWARA states its revised policy, we can not comment on it. Scholarship committee to be in place and plan developed by March.

Vice President: No report

Secretary: Christmas Card from Shriners.

Treasurer: Looking good. Books balance.

Activities Manger: Drawing went well.

Radio Officer: Discussion of repeater coordination issues as presented in World Radio magazine. WWARA to meet and redefine it's policy in January.

Committee Reports

Technical: No Report.

Public Service: Working on Pamphlet.

Education: Classes planed for end of February. Possible class for upgrading. Will wait for FCC reorganization of ham licenses.

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Long range planning: No Report.
Facilities: No Report.
Field Day: No Report.
Flea Market: Meeting January 6 at 7:30.
Relay Editor: Roster next meeting.

Old Business

None.

New Business

None.

There being no further business, the meeting is adjourned at 8:40 PM.

**January/February
Events Calendar**

January

January 6th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

January 13th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

January 15th, Saturday - Mike & Key Net, 9:15 AM on 146.82 repeater

January 15th, Saturday - Mike & Key General Meeting, 10:00 AM at Renton Salvation Army HQ

January 20th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

January 26th, Wednesday - Mike & Key Board Meeting, 7:30 PM at Renton Salvation Army HQ

February

February 3rd, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

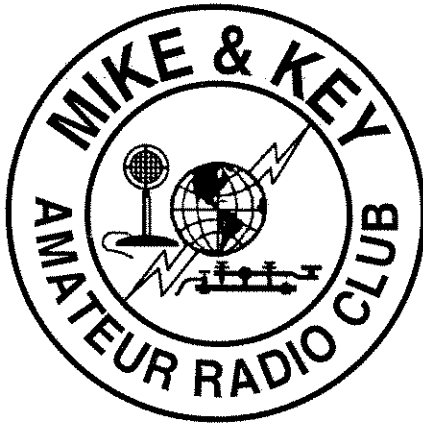
February 10th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

February 17th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

January 19th, Saturday - Mike & Key Net, 9:15 AM on 146.82 repeater

January 19th, Saturday - Mike & Key General Meeting, 10:00 AM at Renton Salvation Army HQ

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K7LED Relay

The RELAY is the official tabloid of the Mike and Key Amateur Radio Club. The Mike and Key ARC is dedicated to the growth and betterment of Amateur Radio. We meet the third Saturday of every month at the Salvation Army Renton HQ, 720 Tobin St., Renton, WA. The Club operates repeaters on 146.82 MHz (103.5 CTCSS) and 224.12 MHz under the call sign K7LED. All persons interested in Amateur Radio are invited to participate in the Mike and Key ARC and its activities. Yearly dues are \$12.00 for individual memberships and \$18.00 for family memberships.

Volume 28, Number 1

January, 2000

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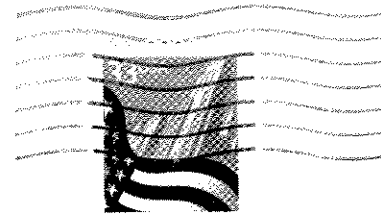
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First Class Mail

Next Club Meeting

Saturday, January 15th at 10:00 AM
Salvation Army in Renton
720 Tobin, Renton
Doors open at 9:30 AM for donuts
Talk-in on 146.82 RPTR

Next Board Meeting

Wednesday, January 26th at 7:30 PM
Salvation 5th Army in Renton
720 Tobin, Renton

Sam Sullivan N7RHE 7/1/00
13626 - SE 232nd
Kent, WA 98042



Check Mailing Label for Dues Status

Mike & Key ARC Web Page: <http://www.mikeandkey.com>

98042/3238