



The Prez Sez

I want to start by saying thanks to everyone who voted for me to serve for another year. I feel that I learned a lot last year, so I can do an even better job this year. Congratulations to the new officers and trustees. I look forward to working with you all this year.

The flea market was a great success, thanks to each member who helped. There were no major problems and Chuck (WA7EBH) or his helpers dealt with the minor ones.

The other major event was our banquet on April 1 in Kent. We had about 60 people show up for an evening of fun and great food. Buster N7STR read a history of the club with his own interpretation. There were a lot of great gifts for the drawing and even some gag gifts given out.

We owe Joyce N7JPW and Tressie KC7BAL a big thanks for putting on a great banquet. Also congratulations to everyone who received an award. Nils (WB7TJK) did an excellent job with the awards. - Alan Hughes, President, KB7SVU

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General Meeting Minutes, 3/18/00

Recorded by Joyce Stroehrer, 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 (W7RUJ); 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 February meeting as printed in the RELAY.

Introductions of members and guests were accomplished. 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.

Officer Reports

President: Alan (KB7SVU) Thank you to Chuck WA7EBH for being chairman and all those who helped with the flea market. One of the vendors had his laptop taken. KC7USE needs the manual for a Hallicrafter 41 amp he bought at the flea market. It was left in an envelope. If anyone has any info on these, please contact Alan. There will be an exercise in Pierce County on Wednesday for National Emergency Medical fly in. Frequency is 145.37. Harry has more information later.

Vice President: Calvin (KC7IYP) presented prospective new members: Dorothy Lowell (KB7WSL); Mark Sandler (K7MAS); Robert Tompkins (KD7IBU); Frank Tate (NA7O); Scott Parton (KK7DU); William Dockstader (W7LSK); Linda

Dockstader (K7LSK); Mary Hall (KC7KAR) and Bill Hall (KI7YK). All voted in to club as new members.

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 meeting. Program today will be the election of officers

COB: Mike (K7JML) Report in the RELAY. Nothing was in the In-put box.

Radio Officer: Harry (W7JWJ) reported that license upgrades have increased 139% over last years. People are waiting quite awhile for new licenses.

ARRL is overloaded with work.

Relay: Jack (N7IHS) nothing to report

Committee Reports

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

Banquet: The Annual Banquet will be held April 1st at HD Hotspurs in Kent. Social hour at 5:00 PM, dinner 6:00 PM. Anyone with a dietary problem, let the chairs know ahead of time for special requests. Price is \$15.00 per person, \$18.00 at the door if space available. Nice door prizes.

Public Service: See Alan for Daffodil Day Parade, MS walk in Pierce County and March of Dimes walk.

Field Day: Planning a work party for early part of June at Fort Flagler to check all the equipment and ready for Field Day.

Alligator: Frank (K7VMG) still has the award. No new recipient found yet.

Mary (W7QGP) reports those who have passed their written upgrades and apply for upgrade after April 17, must wait until new license is received or acknowledges electronically.

Short break before Election of Officers. Meeting resumed.

Old Business

Election of Officers. All candidates for offices

must have current dues and be present at elections.

Nominations open for the office of **President**. Alan (KB7SVU); Dick (N7YOB) declines; Carolyn (W7VQ) declines. Nominations for President closed. Chuck (WA7EBH) moved that secretary cast a unanimous ballot for Alan Hughes (KB7SVU) for President. Jan (K7YH) seconded. Motion passed. Unanimous ballot cast.

Nominations open for the office of **Vice President**. Wayne (KC7ORB) only nomination. Chuck (WA7EBH) moved the secretary cast a unanimous ballot for Wayne Heath (KC7ORB) for Vice President. Seconded by Jan (K7YH). Motion passed. Unanimous ballot cast.

Nominations open for the office of **Secretary**. Jim (KD7BAT) declines. Jan (K7YH) only nomination. Nominations closed. Chuck (WA7EBH) moved the secretary cast a unanimous ballot for Jan Van Allen (K7YH) for the office of secretary. Seconded by Barry (KC7YB). Motion passed. Unanimous ballot cast.

Nominations open for the office of **Activities Manager**. Tressie (KC7BAL) only nomination. Nominations closed. Chuck (WA7EBH) moved the secretary cast a unanimous ballot for Tressie Hughes (KC7BAL) for Activities Manager. Seconded by Barry (KC7YB). Motion passed. Unanimous ballot cast.

Nominations open for the office of **Treasurer**. Jim (KD7BAT) and Chuck (N7STR) declines. Jim (KD7BAT) only nomination. Nominations closed. Chuck (WA7EBH) moved the secretary cast a unanimous ballot for Jim Etwiler (KD7BAT) for Treasurer. Seconded by Barry (KC7YB). Motion carried. Unanimous ballot cast.

Nominations open for **Trustees** (positions 2 and 4) - Dan (N7QHC); Steve (N7MUT); Mary (W7QGP). Seconded Barry (KC7YB). Motion passed. Steve Kaney (N7MUT) for position 2 and Mary Lewis (W7QGP) position 4 were elected.

**Flea Market:** Chuck (WA7EBH) stated was a successful event. About half of the people who signed up to work never showed up. Thanks to those folks who came and helped that did not sign up. Comments from the separate divisions were accepted. The committee will consider suggestions for next year's event.

#### Good of the Order

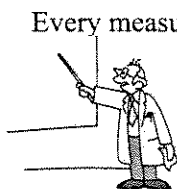
Chuck (N7STR) has pink pamphlets for people to take to Radio Shacks, etc. Raffle drawings held during breaks in the elections. There being no further business, it was moved, seconded and passed to adjourn the meeting.

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### May Relay Deadline

Submittals for the May Relay are due to the editor by **May 10th, 2000**. Early submittals would be appreciated.

### From The W7JWJ Notebook Operation Upgrade Think Metric!!



Every measurement, whether it be a distance, a weight, an interval of time, requires two things; First a number and second a unit. Although there are numerous different units, each one can be expressed in terms of not more than three special units. These three are called fundamental units and are the units of length, mass, and time. All other units are called derived units. Throughout the civilized world, scientific observations are nearly always expressed in terms of metric units. Over 90% of the civilized world uses the Metric System.

In electronics all units are in the metric system. The Standard Meter is used to express the unit of length; the Standard Kilogram as the unit of mass, and the Second as the unit of time. The standard unit of mass is the Kilogram that may be divided into 1,000 equal parts, each called a gram. The standard meter is usually divided into 100 equal parts and each of these parts is called the centimeter. Of course another division by 10 gives us the millimeter. The millimeter may be further divided into 1000 equal parts. Each such part is called a micron. In measuring transit time of a wave through a coaxial cable the nanosecond is used.

Three times of time are recognized by astronomers; First Sideral (Sidereal) time. The second is apparent solar time and the third is mean solar time. This last one is used in civil life and in this classification there 3600 seconds in one hour, 24 hours in one day and 365.241 days in the tropical year, or 31,556,822 seconds in one year. The tropical year is defined as the time between two successive passages of the vernal equinox by the sun. Because each tropical year varies slightly the second is defined as 1/31,556,825.9747 of the tropical year 1900.

The chief advantage of Metric units over English units is that all units are divided into 10, 100, or 1000 parts. This enables fractional distances and masses to be expressed as decimals. Decimals are easier to manipulate in the addition, subtraction, multiplication and division of two or more quantities. Think Metric! It's coming and should have been here long ago.

Let's take metric to Field Day! We measure out a half-wave length dipole for 2-meters. What is its length? Why one meter of course. And what is the length of a quarter-wave antenna for 40-meters? Why 20 meters divided by 4 is 10 meters. Do we really need a calculator? (Only if we are taking one of the current amateur Radio license examinations.) Yes, the units we use in electronics, the volt, ohm, amperes, farad, henry, reluctance, admittance, and watt are all metric. Now consider this. You have been assigned the task of adapting the Safeco Field

to the metric system. How much will you have to change the length of the field? Think metric!!

### For Sale - Antenna



Upgrading your Amateur License? Looking for the Rolls Royce of HF Beam Antennas? Look no further your search is over.....

For Sale - The Mosley PRO-57-B HF Beam antenna with a 2" diameter boom. The antenna is in excellent mechanical and electrical condition and has many years of reliable service to offer the buyer. It was originally a PRO-576-A but I received the "B" upgrade kit when I bought it 6 years ago. It was stored indoors for most of that period and I only got around to putting it up last fall. So, for the most part, it's only been out in the weather less than a year. These antennas are over \$800 new and anyone who knows Mosley antennas can vouch for the superior quality of materials and workmanship that goes into their products. This model operates on 10, 12, 15, 17, and 20 Meters. The antenna weighs 92 pounds assembled on a 24' boom with 11.0 Sq. Ft. of wind load area (I had no problems this winter turning it with an Alliance HD-73). This antenna is rated for Legal Limit when operating SSB and CW, and is rated for 600 Watts RTTY. Right now, it's on my short 40-foot tower and I have been using it for contesting and DXing. I can't see much difference between its performance and the TH6 on the 70-foot tower. You are welcome to come check it out on the air if you like (Unfortunately, don't have any other antennas for you to check it against at this time). I'll take it down, disassemble, and deliver in the Puget Sound area. You can look up the specifications of the Mosley (and it's original pricing) at <http://www.mosley-electronics.com/amateur.htm>.

Why am I selling it? Well, I'm stepping up into a C31XR from Force 12. It's the next step up from the Mosley and I can't see tossing all that fine aluminum on the scrap heap and it's too big (and overkill) for Field Day usage. \$350 takes it but I'll consider lower offers for the deserving.

Call evenings at 253-631-3756 or email at [n7wa@arrl.net](mailto:n7wa@arrl.net). - *Michael Dinkelman, N7WA*

### Mike and Key ARC May Technician License Class

The Mike and Key ARC Education committee will hold a class for those interested in obtaining a Technician Class amateur radio license. The class schedule is May 12<sup>th</sup> through 14<sup>th</sup> for one weekend as shown below:

- Friday, May 12<sup>th</sup>, 6:00 PM to 10:00 PM.
- Saturday, May 13<sup>th</sup>, 8:00 AM to 5:00 PM (bring a lunch).

- Sunday, May 14<sup>th</sup>, 8:00 AM to 5:00 PM (bring a lunch).

The class size is limited to the first 16 students. The cutoff date for registration is May 6<sup>th</sup>, (or when class is full, which ever takes place first).

The class will be held at the Boeing Kent Recreation Center, 22349 - 83rd Ave. South (West of East Valley Road near 224th), Kent, WA.

The registration fee is \$45. If you already have a copy of "Now You're Talking!", the registration fee is only \$27. The fee includes a class lesson plan, the book "Now You're talking!" sixteen hours of instruction (using videos and lesson plan) and one VE-license testing session Sunday afternoon,

To register send a check or money order payable to the "Mike and Key ARC" for \$45 or \$27 per person in the class along with the your name, address, telephone number and e-mail address (optional) and send to:

Chuck Benefiel - N7STR  
Education Chairman  
PO Box 166  
Sumner, WA 98390

For further information, please contact the following people.

Chuck Benefiel (N7STR) at 253-312-5341,  
or

Jim Etwiler (KD7BAT) at 206-633-1512.

- *Chuck Benefiel, N7STR, Education Committee Chairman*

### From the Secretary's Shack

I am going to try this for the third time. I have written this little blurb three times now, and I have saved it the same number of times. One lost disk, one failure to save properly and lost disk 2. I hope this is not an indication of what the next year will be like.

It has long been a concern of mine that some folks do not get the recognition they deserve. The folks I am talking about are the ones, who do something special, that are noteworthy but go unnoticed. The Ham sitting up late one night listening to 2-meter silence and all of a sudden someone comes on and says I have just had an accident. Our night owl calls the police, ambulance and sticks with the other Ham until help arrives.

This kind of thing tends to go unnoticed in the Club. The all around good guy who directs people to the club, or to other organizations, and the helper who helps, not for any gain other than being a nice guy. Alan cannot be aware of these folks all of the time, so if you think someone needs a little recognition, let me know, I will let him know and maybe some one will get a pat on the back they didn't expect.

The March Board meeting has come and gone, and your new corps of Officers have assumed their posi-

tions. They are good people, who will work hard for you. Help them! If you are asked to join a committee, please do so. It is your club and you will get out of it what you put into it.

The Federal Way club is up and running, they used the syllabus put together by Mike and Key and held their first class. It was my pleasure to test them with several other VEs, and 11 out of 12 passed with flying colors, and a couple were from Ellensburg and Arlington. Those folks not only came all the way here, but stayed in motels to complete the class. Kudos Federal Way! Good job!

My next input will be smaller, unless I find more to babble about. - *Jan Van Allen, K7YH, Secretary*

### From The W7JWJ Notebook Operation Upgrade April 15th: The Magic Date

The education Committee for the Mike and Key Amateur Radio Club is providing an instant opportunity to upgrade ones Amateur Radio license for those who have recently upgraded their theory. Joining with other clubs in the area and beginning at 9:15 AM through 9:45 AM just before the monthly club meeting on April 15th a volunteer examination team will be on hand to accomplish the final upgrade process. No examinations will be administered. Those wishing to upgrade should bring:

- 1) Ones original Amateur Radio license, plus a copy.
- 2) Ones certificate of successful completion, plus copy.
- 3) Other proof of license class, if necessary.
- 4) The VEC payment fee, currently \$6.45.

Upon receipt of the certificate (CSCE) the individual upgrading may begin using the new license privileges immediately anytime Saturday April the 15th. However, until ones license is issued, and one must expect three or four weeks for this to occur, one must sign "temporary AG" following ones call sign. Failure to do this will surely invite an advisory notice from an Official Observer.

Immediately following the club meeting a similar session will be held in the main meeting room. Beginning at 12:30 p.m. the regular VE team will be on hand to administer examinations from the new question pool and licensing structure, namely the Technician, General and Extra Class licenses. There is a 5-wpm code speed requirement for the General and Extra only. Take advantage of these upgrade sessions. See you on HF. - *Harry Lewis W7JWJ, Radio Officer*

## Events Calendar

### April

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

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

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

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

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

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

### May

**May 4th**, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

**May 8th**, Monday - Education Committee meeting, 6:00PM at the Denny's Southcenter restaurant

**May 11th**, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

**May 18th**, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

**May 20th**, Saturday - Mike & Key Net, 9:15 AM on 146.82 repeater

**May 20th**, Saturday - Mike & Key General Meeting, 10:00 AM at Renton Salvation Army HQ

## Education Committee Report

The education committee met on April 4th, at 6:00 PM at the Denny's Southcenter restaurant. In attendance were Jim Hamlin (W7FKI), Ryan Martin (N7TNI), Jim Etwiler (KD7BAT), Nils Hallstrom (W7RUJ), Mary Lewis (W7QGP), Harry Lewis (W7JWJ), and Chuck Benefiel (N7STR), Chairman.

The committee will move it's meeting day to the 2nd Monday of the month and will meet at 6:30 PM. We will not meet in July due to schedule conflicts. A future code class will be delayed until the fall. The committee will offer 5-WPM level code tapes for sale to the students of classes as well as the general membership of the club.

The May 14th VE team for Frank Krieger (KA7QHG) will head up the technician class, Chuck Benefiel has already coordinated this with Frank. Teachers need to have their new lesson plans and tapes evaluations back to Chuck Benefiel by April 15th Meeting Day. The next Technician Class will be scheduled for August 11th, 12th, and 13th. There will be a CSCE Upgrade Registration only, held at the April 15th meeting, beginning at 12:30 PM. Harry Lewis will put an article in the relay and will co-ordinate with Jim Christiansen K7ND.

New Technician and General Instruction books are scheduled to be printed in June or July by the ARRL, and we should not expect them to be available until

August. Mary would like to conduct a VE Training Session as part of the July Club meeting program in July. Chuck will coordinate the program schedule with Tressie Hughes KD7BAL.

The meeting adjourned at 7:30 PM. - *Chuck Benefiel, N7STR, Education Committee Chairman*

## Board Meeting Minutes, 3/29/00

### 1999 Officers Present

The following current officers are present; President - Alan (KB7SVU), Vice President - Calvin (KC7IYP), Treasurer - Chuck (WA7EBH), Activity Manager - Tressie (KC7BAL), Radio Officer - Harry (W7JWJ), Trustee #1 - Jack (N7IHS), Trustee #2 - Nils (W7RUJ), Trustee #3 - Jim (W7FKI), Trustee #4 - Mike (K7JML), and Trustee #5 - Mike (KC7YXB).

### Visitors

Dan (N7QHC) and Dawn (KC7YYB) were present.

### 2000 Officers Present

The following new officers are present; President - Alan Hughes (KB7SVU), Vice President - Wayne Heath (KB7ORB), Secretary - Jan Van Allen (K7YH), Treasurer Jim Etwiler (KD7BAT), Activity Manager - Tressie Hughes (KC7BAL), Radio Officer - Harry Lewis (W7JWJ), Trustee #1 - Jack Grimmitt (N7HIS), Trustee #2 - Steven Kaney (N7MUT), Trustee #3 - Jim (W7FKI), Trustee #4 Trustee - Mary Lewis (W7QGP), and Trustee #5 - Mike Ross (KC7YXB).

The meeting was called to order by COB Mike (K7JML) at 7:30 PM at the Salvation Army headquarters in Renton.

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

### Officer Reports

**President:** Nothing to report

**Vice President:** New member applications approved for submittal to the membership: Richard Gibbs (WB6RCP), Judi Gibbs (W6FKE), Ronald Verschuyt (K7AAE), and Warren Parton (call pending). All were approved for presentation to the general membership.

**Secretary:** No correspondence received. The Club files have been turned over to Jan.

**Treasurer:** The annual audit was performed this evening, and approved by the Audit Committee consisting of Nils (W7RUJ), Chuck (N7STR), James (W7FKI), Jim (KD7BAT), and Chuck (WB7EBH). A copy of the Committee report was submitted to the Secretary for inclusion in the club records. Chuck (WB7EBH) reported that a deposit to the Puyallup Fairgrounds had been made for the Flea Market next year.

**Activity Manager:** Last year was a good year, everything went well. Discussion regarding attendance

of the programs for the club ensued, and Tressie stated she planned to have only one program per quarter this year. This may result in improved attendance.

**Radio Officer:** Harry reported that the repeater was in need of replacement due to its age and general condition. In the meantime he will keep it in good repair.

### Committees

**Technical:** Nothing to report

**Public Service:** Nothing to report

**Education:** Nothing to report

**Long range planning:** Nothing to report

**Facilities:** Nothing to report

**Field Day:** There was a slight downturn in attendance last year. We will order year 2000 pins for the attendees. Judi Gibbs has volunteered to be the Computer Liaison to insure logging programs and data is downloaded and insure there is no loss of data. New dupe sheets are being formulated, much easier to use.

**Flea Market:** The next meeting will be held in September.

**Relay Editor:** Nothing to report

### Old Business

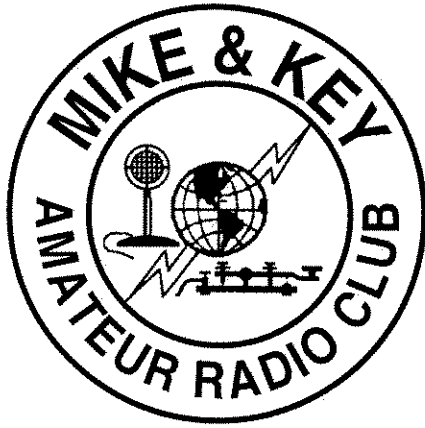
There was no old business requiring action by the Board.

### New Business

Logo Committee: discussion was presented regarding the suppliers of jackets. The present suppliers no longer have the colors used in the past. Mike (KC7YXB), Tressie (KC7BAL), Dawn (KC7YYB) and Dan (N7QHC) were delegated as a committee to investigate colors, suppliers, costs and report back to the board.

Election of a Chairman or the Board for the ensuing year followed. Jack, N7IHS was elected by Ballot. There being no further business, the meeting is adjourned at 8:40 PM.

*Submitted and attested:  
Jan M. Van Allen K7YH  
Secretary*



# 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 it's activities. Yearly dues are \$12.00 for individual memberships and \$18.00 for family memberships.

Volume 28, Number 4

April, 2000

#### President

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#### Vice President

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253-639-1782  
wayne.heath@metrokc.gov

#### Secretary

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#### Radio Officer

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w7jwjw7qgp@aol.com

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#### Trustee No. 2

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w7jwjw7qgp@aol.com

#### Trustee No. 3

Jim Hamlin - W7FKI  
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w7fki@earthlink.net

#### Trustee No. 4-

Steve Kaney - N7MUT

sfskaney@compuserve.com

#### Trustee No. 5

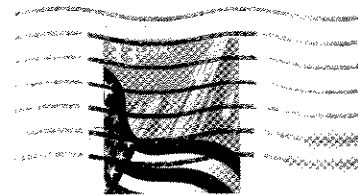
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#### Return To

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First Class Mail

#### Next Club Meeting

Saturday, April 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

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

#### Next Board Meeting

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

✓ Check Mailing Label for Dues Status

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

98042/3238

