



# THE LED

April 2009

Published by the Livingston Amateur Radio Klub  
Howell, Michigan

Livingston Amateur Radio Klub  
PO Box 283  
Howell, Michigan 48844

[www.w8lrk.org](http://www.w8lrk.org)

**NET 146.680  
SUNDAY 9PM**

**CLUB CALL IS: W8LRK**

**NEXT KLUB MEETING  
Thursday, April 9th, at 7:30PM  
EOC, 300 S. Highlander Way  
Howell, MI**



## BOARD MEMBERS

President	Van	N8GVD
Vice-President	Clairus	KC8QQN
Secretary	Mary	KC8SER
Treasurer	Patrick	W8LNO
Program Manager	Jon	KC8VAB
Tech Director	Les	W8MSP
Director	John	KD8CCR

## COMMITTEE CHAIRPERSON'S

Repeater Trustee	Jim	WB8AZP
LED Editor	Michelle	KD8GWX
VE Coordinador	Jim	WB8AZP
PIO Officer	Brandon	KC8YHE
PIO Officer	Jim	N8ENX
Web Site	Les	W8MSP

The Livingston Amateur Radio Klub maintains the 146.680 (Negative Offset, 162.2 CTCSS) and also the 444.525 (Positive Offset, 100.0 CTCSS) repeaters in Livingston County.

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**PREZ SAYS ....**



**Richard Winsett and Bruce Pollock  
on your retirement!**

We have elections coming up in May so lets be prepared for the nominations at the April meeting.

It was good to see the turn out for Skywarn last month. Some of the conditions for weather events have changed this year so it could result in fewer Nets. But we will have to wait and see.

John KD8CCR will be in need of some help to work on the trailer soon. So if you can, try to make yourself available.

Our ability of providing Emergency Communications to served agencies is a very important part of the spirit of Amateur Radio. I want to thank those that have stepped up, taken the required courses and training and participated in the exercises. But of course, we can do better and waiting until we are needed isn't the time to decide you want to help. I would encourage all Radio Amateurs to become more involved in ARES and RACES, take the required classes and making time to participate in the exercises. Having the training is as important as having the ability to do the job. To learn more visit [www.n8eoc.org](http://www.n8eoc.org), [www.w8lrk.org](http://www.w8lrk.org) click on the ARES RACES tab or contact our EC or any of the AEC'S. .

Looking forward to seeing you at the next Klub event.

Van N8GVD



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**Joke of the day ...**

One night a burglar is trying to break into a house. He's sneaking across the lawn when he hears a voice – "Jesus is watching you!" He jumps, turns around, but he doesn't see anything. So he starts creeping across the lawn again. "Jesus is watching you!" He hears it again. So now the burglar is really looking around and he sees a parrot in a cage by the side of the house. He says to the parrot, "Did you say that?" the parrot answers "Yes I did." So the burglar asks, "What's your name?" The parrot says "Clarence." The burglar laughs and says, "What kind of stupid idiot would name is parrot Clarence?" The parrot replies, "The same stupid idiot that named his rottweiler 'Jesus'!"

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## **LARK General Meeting Minutes 3-12-2009**

The meeting was called to order by Van N8GVD, with the Pledge of Allegiance.

Secretary's Report: accepted as in the LED.

Treasurer's report: accepted as distributed.

Jim had nothing to report.

To the Editor; it is great to have a newspaper again. Great job Michelle.

Skywarn is March 23<sup>rd</sup> at the Hamburg Fire Hall on M36 at 7 pm.

Tech Coordinator: Still working on the repeater, looking to do some upgrading.

Old Business: nothing

New Business: Dick Windsett and Bruce Pollock are retiring at the end of the month. Thank you to all who helped on the work party.

As Clairus has resigned, we need a volunteer for Vice President. Pete Maxwell has graciously accepted. Thanks Pete!

50/50 was won by Mac.

Mac made a motion to adjourn and Zac seconded it, motion passed.

Minutes submitted by Mary KC8SER

## **LARK General Meeting Minutes 3-19-2009**

Secretary's Report: accepted as printed.

Treasurer's Report: nothing

A subject was heard on the net Sunday March 15<sup>th</sup>, concerns were heard about the weather station on the repeater. The concerns were taken care of by the technical team who takes care of the repeater.

Web Page: nothing

A) Bruce Pollock and Dick Windsett are retiring at the end of the month. Jon suggested a microphone plaque as a token of appreciation

B) Van made the motion to spend \$200 for the plaques, pat seconded, motion passed.

Raffle: We'll start selling tickets Field Day weekend with the drawing held at the September meeting. The prizes will be decided by the April meeting. Les made a motion to be modified if need be, Pat seconded, motion passed.

The Board welcomes Pete Maxwell as Vice President, thanks for accepting the position.

Minutes submitted by Mary KC8SER

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### **Thought for the day ...**

"You make the world a better place by making yourself a better person."

~ Scott Sorrell

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**Finance Report ...**

OPENING BALANCE OPERATIONS FUND

March 31, 2009 -----\$1696.75

INCOME

50/50 \$ 89.00

DUES \$ 20.00

State Electronics (refund) \$ 86.00

ACCOUNT BALANCE (04/03/09) \$1891.75

EXPENSES

P.O. Box 283 Fee \$ 38.00

ACCOUNT BALANCE April 03, 2009 \$1853.75

1000 CD \$1390.51

500 CD \$ 656.85

TOTAL BALANCES APRIL 03, 2009 \$3931.11

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BAL. FROM EMG FUND AS OF MARCH 31, 2009

BALANCE -----\$5445.71

INCOME

EXPENSES

AUTOPATCH (equipment) 03/03 -\$ 217.89

KLUB KITS PROJECT -\$ 585.81

TOTAL \$4642.01

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## TSA - Amateur Radio Security Regulations PRM

Although TSA and its parent organization, the Department of Homeland Security (DHS), have shared little information about these ham radio security initiatives with general ham operators, TSA evidently has engaged in communications with the radio manufactures. From there, news of the impending “reforms” has trickled into the general Amateur Radio community and hams have been alerting ARRL to their concerns.

The directive appears to apply to ham radio operators that do DX communications, even if only single contacts are made. In short, the directive requires each licensee to implement programs requiring security badges and background checks on personnel that are operating the radio and for other people that would have unescorted access to the radio hardware.

Furthermore, some evidence suggests that TSA might expand the requirements to include FCC-designated monitors for transmissions lasting over 2 minutes.

In response to the outcry from the ARRL and the other amateur radio groups, TSA has pushed a looming compliance deadline back from the original April 1<sup>st</sup> deadline to June 1, 2009, and in the interim, has agreed to meet with representatives of the groups.

Some of the emerging information on the directive suggests a problematic lack of standardization. Each operator could adopt their own specific programs, placing an unwieldy burden on Hams to know the compliance procedures and requirements for each contact to which the operator makes.

Members of ARRL’s advocacy staff are among the industry representatives with whom TSA has pledged to meet. “We’ll emphasize the importance of readily available access to the airwaves and radio manufactures,” said Jeff Wiggins, ARRL’s vice president of industry and regulatory affairs. “The TSA’s proposals exceed the bounds of a security directive by expanding security programs to a whole new community of operators. We believe that significant changes in the scope of TSA’s programs require a deliberative rulemaking process, including the opportunity for those with a major stake in the outcome to provide comment.”

ARRL’s regulatory affairs staff encourages members to e-mail accounts of firsthand experiences of any newly implemented security procedures at their home stations to there local ARRL club president. “This reporting will help to expand our understanding of the TSA’s intent and the interpretation of it. It will also alert us to any premature measures being adopted before TSA has an opportunity to consider the industry groups’ input and possibly revise its position,” Wiggins said.



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**To all LARK members,**

I just wanted to take a moment and introduce myself for those that may not know me. You may know me as W1LBR, but to my friends (of which you all are), and my business associates, I go by Pete. Of course, I go by other names that perhaps should not be mentioned out loud in mixed company. Feel free to call me Peter, Pete, or Max. I'm flexible.

I am a real estate broker in real life. I work with RE/MAX Four Season on M-36 in Whitmore Lake. My office is just west of US-23 and the exit 54B exit. Please feel free to stop in anytime you are in the area. Should you need a cup of coffee, a phone or what have you, the office keeps tradition business hours. I live on the west side of the county between Pinckney and Gregory, just inside Unadilla Township.

Most of my time is spent out of the office. More than likely you will find me out and about mobile in Livingston County and the surrounding area. I almost always have my Kenwood TM-D700 monitoring the LARK repeater. The other side of my radio is tuned to 144.390, the national APRS frequency. On APRS, you can find me as W1LBR-7. I also maintain a small digipeater known as W1LBR-5.

Lately, I've been playing with D-Star. My new toy is an Icom IC-92AD with a GPS microphone. Most times I'll be listening to the 2 meter Livingston DStar repeater. This stays in the car as well. I have an Icom 746 in my basement, but have not used it in over a year. I have more mobile rigs, TNC's, handhelds and the like, than I care to admit (as most reading this probably do as well).

So, I wanted you to know that I do care for Amateur Radio and am an active participant even though you may not hear me regularly. Oh, and before I forget, I upgrade to a General license on "No Code Day One", 2/23/2007, thanx to wise and patient licensing volunteers we have here. Again, my warm thanx goes to them. Their efforts, although personally gratifying, never get the level of recognition they should. We cannot thank these great people enough.

After seeing all the great work Clairus (KC8QQN) has done for us, I felt compelled to help her and the club out by volunteering to fill in for her for now. For me, it's an honor and a privilege. Her dedication to the club has been far beyond those of mortal men. I can never expect to fill her shoes. Although she will be greatly missed on the board, I hope she will still be a presence on air and at our monthly meetings.

A club such as ours, has different requirements and different goals for each of its members. Please. PLEASE, PLEASE, take a few minutes of your valuable time to let me know what they are. You all play a role in the direction this club takes and how successful it becomes. Unfortunately, if you don't share your thoughts and wisdom, we will never know them. I would like to meet each and every one of our members over a cup of coffee so I can better understand how I can help you. Call me anytime at 810-299-2921, email at Pete@PeteMaxfield.com., or give me a holler on the LARK repeater.

Warm regards,  
Peter Maxfield  
W1LBR

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## Dayton HAMvention ...

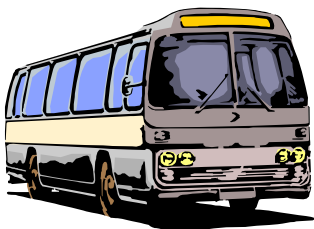
The **ARROW Communication Association**, once again, is proud to sponsor a motor coach trip to the **2009 Hamvention** in Dayton, Ohio. Started in 2002, this annual club activity has grown in size and reputation with Hams across Michigan. We have been host to over 250 Hams for this event. Last year was a sell out and based on early reservations, we expect to sell out again this year!

Join us **Saturday, May 16, 2009**, when we depart from Ann Arbor at 4:30 am, arriving in Dayton around 8:00 am. On board, you can stretch out, relax, chat with other Hams and enjoy a continental breakfast with coffee as the coach takes you directly to the door of the country's largest amateur radio event!

We arrive at Dayton early enough so that you can enjoy a full day!

- Visit exhibits
- See what's new from major manufacturers
- Attend seminars
- Take license tests
- Shop one of the largest outdoor swap meets in the United States

When Hamvention closes at 5:00 p.m., return to the entrance with your purchases and our bus will pick you up for the ride back home. No standing in lines waiting for a shuttle bus or fighting traffic!



### Got Stuff to sell? We can help!

Got stuff you want to get rid of? We will have an attended booth space in the flea market. If you buy a bus ticket, you can sell your stuff at our booth. The cost of the booth alone is \$70.00 more than the cost of the ticket, which makes the ARROW trip a GREAT value!

### For our out of town Guests!

If your QTH is too far away to drive to meet our bus that leaves at 4:30 a.m., arrangements have been made with hotels in Ann Arbor. Contact us at the information listed below for details.

## This is no ordinary bus trip ... it's an ADVENTURE!

Tickets are \$60. This does **NOT** include your admission to the Hamvention. We suggest that you purchase your 2009 Hamvention ticket(s) in advance to take advantage of the discount and enjoy the day without waiting in line for your tickets.

When you add it all up, taking the bus with the ARROW is the most economical and relaxing way to attend Dayton. ARROW coach tickets can be purchased now and are refundable up to 4/24/09. For more information on the 2009 trip and the fun we had in 2008, go to our web site and click the Dayton Bus Trip link.

### Contact information:

Michelle Roderick, KD8GWX  
Phone: (734) 717-5660  
e-mail: KD8GWX@W8PGW.ORG

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## Amateur Radio Quiz: The Yagi Antenna

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*It's a rare ham, indeed, that has not been exposed to the Yagi antenna design at one point or another in his or her ham career. Yagis are nearly everywhere -- from fantastically large wire arrays on the HF low bands to miniature metal sculptures at UHF and up. Enjoy this quiz to find out what you know about this versatile antenna!*

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- 1) A parasitic element...
  - a. is connected to the feed line.
  - b. is not connected to the feed line.
  - c. must be parallel to the feed line.
  - d. is only for mechanical balance.
  
- 2) Directors are (longer) (shorter) than reflectors.
  
- 3) Directors are (longer) (shorter) than the driven element.
  
- 4) Second directors are (longer) (shorter) than the first directors.
  
- 5) A Yagi's driven element generally has a feed point impedance (lower) (higher) than 50 ohms.
  
- 6) Which of following is NOT a useful transmission-line impedance matching design to transform the Yagi driven-element impedance to 50 ohms for coax feed?
  - a. Strip-line
  - b. Gamma match
  - c. Beta match
  - d. Hairpin
  
- 7) "Plumber's Delight" construction means that all elements are...
  - a. made from threaded pipe.
  - b. not insulated from the boom.
  - c. at the same RF potential.
  - d. trapped.
  
- 8) A "driven cell" refers to...
  - a. a loop used as the driven element.
  - b. two or more driven elements.
  - c. more than one Yagi on a single mast.
  - d. extra-strong rotator hardware.
  
- 9) Reflectors have self-resonant frequencies (higher) (lower) than that of the driven element.

10) Adding parasitic elements is done to improve the antenna's...  
a. front-to-back ratio.  
b. forward gain.  
c. both (a) and (b)  
d. neither

11) The Yagi antenna was first described in...  
a. 1926-28.  
b. 1936.  
c. 1946.  
d. 1962.

12) The "2:1 Bandwidth" of a Yagi refers to the frequency range over which the antenna maintains a...  
a. 2-to-1 SWR or less.  
b. front-to-back ratio of at least 3 dB.  
c. forward gain of at least 3 dB.  
d. efficiency of 90 percent or greater.

13) A "quagi" is...  
a. an array of four Yagis.  
b. a Yagi with one or more quad-loop elements.  
c. a quasi-Yagi design.  
d. a lightweight Yagi.

14) "Tapered elements" are...  
a. spaced closer together at one end of the antenna.  
b. covered with insulating tape.  
c. smaller in diameter at their tips than in their centers.  
d. no longer in general use.

15) Increasing the number of elements in a Yagi (increases) (decreases) the antenna pattern beam width.

*Bonus Question:* Who was Dr Yagi's co-inventor of the antenna that is now only known by Yagi's name?

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Michelle Roderick, KD8GWX, [michelle.Roderick@wc-redcross.org](mailto:michelle.Roderick@wc-redcross.org)  
734-717-5660 Cell  
734-260-7893 ARC Cell  
734-677-6066 FAX

Please bring any articles you'd like to have in the next meeting. If you are unable to attend, have a friend bring the information to the meeting for you, email it to me at the above address or feel free to fax it to my work at the above number.

Thanks to everyone for the articles submitted to make the April 2009 LED a success!

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## **ARRL Invites Nominations for 2008 Hiram Percy Maxim Award (deadline April 15<sup>th</sup>) ...**

The ARRL invites nominations for the [2008 Hiram Percy Maxim Memorial Award](#). The League's premier youth recognition, the Hiram Percy Maxim Memorial Award is awarded annually to a radio amateur under age 21 in recognition of the recipient's accomplishments and contributions "of the most exemplary nature" to both the Amateur Radio community and the local community during the previous calendar year -- 2008 in this instance.

Nomination criteria may include:

- Participation or leadership in organizational affairs at the local or national level (for example: Local radio club, ARES®, Net control or participation in civic groups).
- Technical achievement (for example: Building a radio or putting up an antenna).
- Operating record (for example: Nets, disaster drills, contests or Sweepstakes).
- Recruitment and training of new amateurs (for example: Helping to teach a license class or Jamboree on the Air).
- Public relations activities (for example: Creating a ham radio Web page).

All information -- including the nomination form, supporting information, endorsement of ARRL-affiliated clubs and elected or appointed League leadership officials -- should be submitted with the nomination to your ARRL Section Manager. In keeping with the tradition of the award when it was first established, formal nominations are made by Section Managers. Please make your Section Manager aware of young hams that have distinguished themselves through their activities. A Section Manager may nominate more than one person per year. All nominations shall be forwarded to the Membership and Volunteer Programs Department. An award panel will review the nominations received and select the winner. The prize consists of a cash award of \$1500 and a suitably engraved plaque. ARRL representatives will endeavor to make a formal presentation of the plaque at a mutually agreed upon ARRL convention or event. Nomination forms and support information should document as thoroughly as possible the nominee's Amateur Radio achievements and contributions during the previous calendar year. Additional information concerning the accomplishments and activities of the nominee should be as complete as possible.

The award is intended to provide a tangible reward to those deserving young amateurs who daily contribute their time, skills and energies through their commitment to Amateur Radio. As models for their peers -- and inspirations to us all -- these fine young people are highly visible boosters of Amateur Radio. We must continue to recognize and encourage their hard work and contributions at every opportunity.

[Nomination forms](#) and support information must be sent to the Section Manager. Section Managers will make the formal nomination by sending the form and information to ARRL before March 31. All additional support information must be received at ARRL on or before April 15. There is no limit to the number of nominations an individual or club may submit to the ARRL Section Manager. For more information, contact Steve Ewald, WV1X, via [e-mail](#) or by phone at 860-594-0265.

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## Answers to The Yagi Antenna Quiz ...

1. b -- The currents in a parasitic element are created by the field from the driven element. No direct connection to the feed line is needed.
2. shorter
3. shorter
4. shorter
5. lower -- A typical Yagi's feed point impedance is in the neighborhood of 20 ohms.
6. a -- The gamma, beta, and hairpin (another name for the beta match) are all widely used to connect a 50 ohm feed line to a Yagi driven element.
7. b -- This type of construction allows all metal mounting hardware, simplifying construction and placing all of the antenna at the same dc potential for grounding.
8. b -- Using multiple driven elements improves the feed point impedance stability over the designed frequency range.
9. lower
10. c -- Both gain and rejection of signals to the rear is improved by proper placement of parasitic elements.
11. a -- The antennas were described in the Japanese IEE journals in 1926 and 1927, while the English papers were published in the IRE journal in 1928.
12. a -- This is sometimes referred to as "SWR bandwidth."
13. b -- The broader frequency vs. impedance characteristics of the loop help increase the SWR bandwidth of the antenna.
14. c -- Tapering reduces antenna weight and wind load.
15. decreases -- An antenna with more elements generally has a narrower or sharper radiation pattern.

*Bonus* - Dr Uda was the co-inventor of the "Yagi-Uda Array," known today by the simpler name.

By H. Ward Silver, N0AX  
[n0ax@arrl.net](mailto:n0ax@arrl.net)

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### Next issue ....

Will be adding a "calendar of events" so please make sure to submit any dates you'd like to have highlighted for the calendar.

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