



The Spirit of '76 and '88



JANUARY

Newsletter of the Lake Erie Amateur Radio Association

2011

Editor: Ken Kane, KG8DN

Publisher: Jeannie St. Marie, KC8MNW



Nathan...

January 25th LEARA Meeting - after 20 years Nathan Stevens from Bulldog says: "Give Me Your Tired, Your Poor... Batteries!"



...in Bulldog Battery with Rick Price

A veteran of the Bulldog Battery staff, Nathan Stevens will join us on January 25th at Dimitri's Restaurant as the guest speaker at our first LEARA club

meeting of the new year. Nathan is an Eastlake native and a familiar figure at the desk near the counter with his drills and binocular microscope — if you had an HT battery pack rebuilt Nathan probably did it!

"I drove by the shop one day and saw the job opening in the window," offered Nathan, "and that was 15 years ago!" Nathan and several other staff members have carved a niche in the battery market with their competent service and ingenious techniques.

"We just finished rebuilding a slew of battery packs for the folks at Metro Health hospital on-site—a total of 608 packs all together," commented Rick Price from his inner office. He and co-owner Frank Ineman just celebrated Bulldog's 20th birthday this past October.

Be sure you are there for the meeting this January to hear the latest trends in battery care, from those in your HT, through battery backup systems and on to those in your car or truck. You won't be disappointed!

Dinner will be served at 6:30 PM and the formal meeting will begin around 7:30.

Meetings are open to all interested persons. You may attend without eating, but reservations are required if you do wish to eat. Restaurant service is available only for those who purchase dinner. If you are attending the meeting only, kindly purchase beverages at the bar and bring them to your table. The dinner menu will consist of Steak, Broiled Boston Scrod, or Chicken Parmigiana for \$16. Also available is a vegetable and pasta dish for those who prefer a meatless dinner. The dinner includes a salad, main course, dessert, coffee or iced tea, and gratuity. (Please note, bar service and soft drinks are not included.)

RESERVATIONS ARE REQUIRED BY 11:00 A.M. OF THE MEETING DATE.

Please call in your reservation and your menu choice to Marv Grossman, W8AZO, at 440-248-0031. You can also visit www.leara.org and make your reservation through the club's website. -AR-

Did you do your dues yet?

OFFICERS

Alex Manuk President	WD8JMM 216-459-8523
Bryan Torok Vice President	N8OOF 440-871-5456
Eric Jessen Vice President	N8AUC 440-734-3146
Bob Winston Secretary	W2THU 216-771-3314
Dave Foran Treasurer	WB8APD 440-942-0618
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Al Amster	W8TTY
Don Raith	N8DJG (SK)
Fred Collins	W8ADW(SK)
Pat Shreve	W8GRG (SK)
Al Severson	AB8P (SK)

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Bryan Torok Radio Officer	N8OOF 440-871-5456

The *Spirit of '76 & '88* is published monthly except in December. Contributions must be received by the 2nd Sunday of the month (except on months with 5 Sundays and Tuesdays, when the 3rd Sunday will be sufficient.)

Editor: Ken Kane, KG8DN

E-mail: editor@leara.org

Proofreading: TNX to

Marv, W8AZO and Jeff, N8YNR

Ahh, January. The month of wicked cold weather, bad roads, high heating bills, and resolutions! In years past I would have had a whole list, but this year I'm simplifying a lot of things. My primary New Year's resolution is to keep in better touch with those I've managed to stay in contact with over the years. The ham radio part of that means I'll try to spend more time on the air, actually talking to people, rather than just monitoring (and yes, I do a LOT of that)

The Prez Says

by Alex Manuk, WD8JMM



What are YOUR resolutions for this year? Do any of them involve amateur radio? As our technologically crowded world becomes ever busier and more and more things clamor for our attention, I find that sometimes it's kind of nice to turn off the computer, the TV, the cell phone, all the other distractions, and just have a conversation with good friends on the radio. I don't have any of the old 'shack warmers' that I used to use on HF years ago, but there's still something about sitting in the shack with no light but the radio, chatting with folks far away. It's wintertime, all the yardwork is on hold, so grab a microphone, or a key, or even a keyboard, and play a little radio. After all, that's why you got the license, isn't it?

LEARA has a new location for Trustee's meetings. We had the January meeting at the Highland Hills City Hall, and have decided to have our meetings there for the foreseeable future. Many thanks to Marv, W8AZO, for arranging for us to use the facility.

It's been a while since we've had the folks from Bulldog Battery over for a meeting. January's meeting program will be a pleasant re-introduction to all things battery-related. With the advances in technology over the past few years, it will be interesting to see what new things they have to share with us. Come on out for a good dinner, good conversation, and a great program. See you there!

-AR-

The Lake Erie Amateur Radio Assn., Inc., **LEARA**, is a not-for-profit [501(c)(3)] organization dedicated to Amateur Radio and Public Service. Club information packets and applications for membership are available from **Marv Grossman, W8AZO, 440-248-0031**, or may be downloaded from our web site at www.leara.org. Annual membership is \$25.00. **LEARA's address** is: LEARA, PO Box 22823, Beachwood, OH 44122-0823.

LEARA is an **ARRL**-affiliated club. When you join or renew the **ARRL**, **LEARA** benefits monetarily if you so through the club. Send **ARRL** Applications/renewals to Club Treasurer Dave Foran WB8APD, 5439 Nan Linn Dr. Willoughby, OH 44094-4365. Make the check payable to **LEARA**, not the **ARRL**.

Membership Meetings are held the last Tuesday of each month except December at Dimitri's Restaurant, 1830 Snow Rd., Parma, OH (in the Mid-Town Shopping Center, just west of Broadview Road). Dinner is served at 6:30 p.m. The meeting begins at 7:30 p.m. Meetings are open to all interested persons. You may attend without eating, but **reservations are required** if you do wish to eat. Call **Marv Grossman, W8AZO at 440-248-0031** to leave a message.

Trustees' Meetings are on the second Saturday of odd numbered months at 9 AM in a first floor room at the Highland Hills Village Hall, 3700 Northfield Road. Meetings are open to all current members of LEARA.

The Great Radio Spectrum Famine

TNX to Marv W8AZO for this tip...

Mobile broadband is consuming the available radio spectrum. Serving up more won't be easy...
 (Excerpted, with some **emphasis** added, from an article by Mitchell Lazarus as published in the **IEEE SPECTRUM**, October 2010)
 See <http://spectrum.ieee.org/telecom/wireless/the-great-radio-spectrum-famine>

... **Smartphones**, along with fully mobile laptops and tablets, are spreading fast, and people are using them ever more hours of the day. Estimates show the amounts of such wireless data doubling or tripling annually. We can expect a hundredfold expansion in just a few years.

Where will all the new capacity come from? Addressing this issue demands first an understanding of why all radio spectrum is not created equal.

Every application of radio works best within a certain range of frequencies, and mobile broadband is no exception. Its **sweet spot** is relatively narrow, roughly in the range of **300 to 3500 megahertz**. (see **red band** below) That's because radio waves that are much above 3500 MHz (shorter than about 9 centimeters) do not penetrate well into buildings or through rugged terrain, leading to frustrating dead spots. Lower frequencies are better in this regard, but they require awkwardly large antennas for efficient transmission; 300 MHz is roughly the lowest frequency compatible with a reasonably efficient antenna that's small enough to fit in a handheld device.

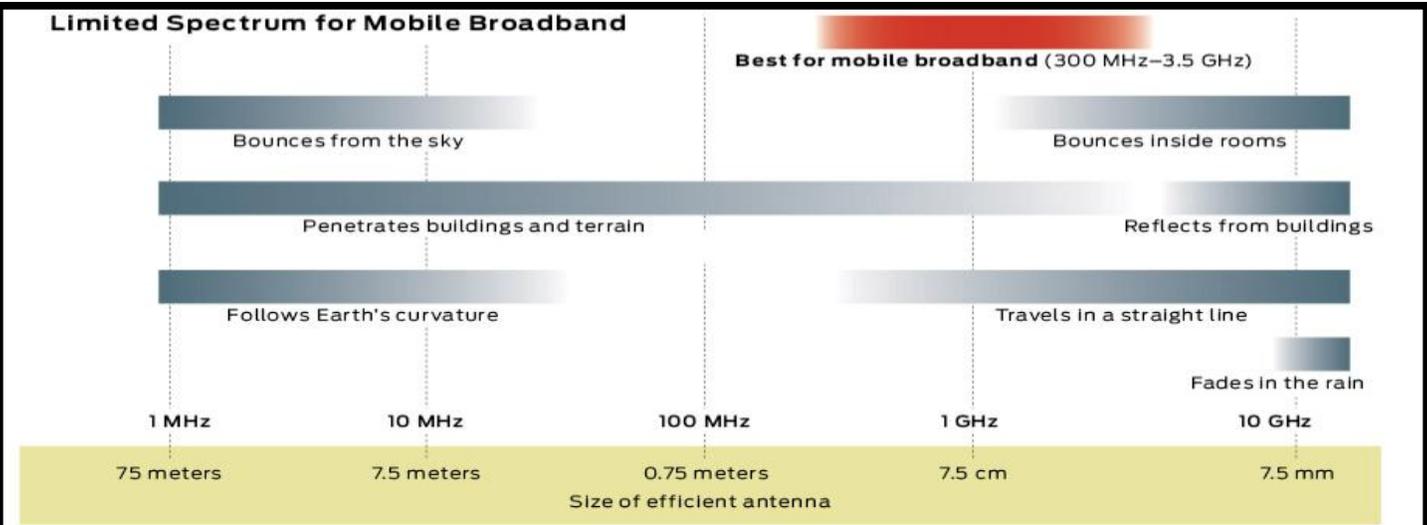
Not surprisingly, this swath of the spectrum is already staked out in much of the world. Finding ways that use less radio bandwidth to carry out these communications is not impossible, but it requires the adoption of some new technologies. ... Any solution ultimately has to identify the least efficient or least critical services and redesign them to use less spectrum. Consider, for example, **the current situation with two-way radios: 12.5 kHz** for a one-way voice channel, with many channels vacant at any given moment.

Such radios are indispensable to **police, firefighters, and other emergency responders**, as well as utility workers, taxi drivers, plumbers, construction crews, and many others. But their collective traffic could be handled in far less spectrum than is being used today. **Unfortunately, there's no practical way to improve these devices on their present frequencies, beyond the long-awaited halving of their bandwidth.**

We need to offer these people a more efficient alternative while **making it more costly for them to use their old equipment**. Suppose the FCC gave a nonprofit industry group a few megahertz in which to provide efficient, digital, two-way radio service on an at-cost basis. To be sure, many users would prefer to keep their existing radio gear. **But the FCC could make their licenses more expensive** and equipment requirements more demanding, while pointing users to the new collective service as a better option.

Eventually, enough will have migrated out of the original band to allow the FCC to take it back and reallocate it for other purposes. The result would be two-way radio use that is 10 to 100 times as spectrum efficient as today's with little disruption along the way. ... -AR-

What's YOUR view?
 Contact editor@leara.org or join in online for the **CONFERENCE on January 26th** in Washington, D.C. See **top of next page!**
 (Tnx to Bryan N8OOF)



OPPORTUNITY WINDOW: The best frequencies for mobile broadband are high enough that the antenna can be made conveniently compact, yet not so high that signals will fail to penetrate buildings. This leaves a relatively narrow range of frequencies available for use [red band].

FCC to Hold Workshop in Washington, D.C. on VHF/UHF Narrowbanding January 26, 2011

The Federal Communications Commission's Public Safety and Homeland Security Bureau announced it will hold a workshop on VHF/UHF narrowbanding to assist licensees in completing the transition to narrowband radio communications by January 1, 2013. The event will be held on Wednesday, January 26, 2011, from 1:00 p.m. -4:30 p.m. in the Commission Meeting Room. The Commission's rules have set January 1, 2013 as the deadline for all VHF and UHF Public Safety and Industrial/Business land mobile radio (LMR) systems in the 150-174 MHz and 421-512 MHz bands to migrate from 25 kHz channel bandwidth to 12.5 kHz or narrower technology. Audio/video coverage of the meeting will be broadcast live with open captioning over the Internet from the FCC's web page at www.fcc.gov/live. The FCC's webcast

Upcoming Hamfests: from www.arrl.org

01/30/2011 | [Tusco ARC Hamfest](#)

Location: Strasburg, OH

Type: ARRL Hamfest

Sponsor: Tusco Amateur Radio Club

Website: <http://www.tuscoarc.org>

[Learn More](#)

02/06/2011 | [Winter Hamfest](#)

Location: Lorain, OH

Type: ARRL Hamfest

Sponsor: Northern Ohio Amateur Radio Society

Website: <http://www.noars.net>

[Learn More](#)

02/13/2011 | [Mid-Winter Hamfest](#)

Location: Mansfield, OH

Type: ARRL Hamfest

Sponsor: Intercity Amateur Radio Club

Website: <http://www.w8we.org>

[Learn More](#)

02/20/2011 | [Livonia AR Club Swap-N-Shop](#)

Location: Livonia, MI

Type: ARRL Hamfest

Sponsor: Livonia Amateur Radio Club

Website: <http://www.livoniaarc.com/Swap.htm>

[Learn More](#)

is free to the public. Those who watch the live video stream of the event may email event-related questions to livequestions@fcc.gov. Depending on the volume of questions and time constraints, the panel moderators will work to respond to as many questions as possible during the workshop. -AR-

Volunteer Exam Dates and Locations from www.arrl.org

01/18/2011 | [Sandusky OH 44870-1926](#)

Sponsor: Sandusky Radio Exp League Inc

Location: Sandusky Radio Exp League Clubhouse

Time: 7:00 PM (Walk-ins allowed)

[Learn More](#)

01/20/2011 | [Youngstown OH 44501](#)

Sponsor: Mahoning Valley ARA

Location: Youngstown State University

Time: 6:30 PM (Walk-ins allowed)

[Learn More](#)

01/23/2011 | [Newton Falls OH 44444-1639](#)

Sponsor: Warren ARA

Location: Newton Falls Community Center

Time: 6:30 PM (Walk-ins allowed)

[Learn More](#)

01/29/2011 | [Bentleyville OH 44022-3337](#)

Sponsor: WRECS

Location: Bentleyville Town Hall

Time: 9:00 AM (Walk-ins allowed)

[Learn More](#)

02/15/2011 | [Sandusky OH 44870-1926](#)

Sponsor: Sandusky Radio Exp League Inc

Location: Sandusky Radio Exp League Clubhouse

Time: 7:00 PM (Walk-ins allowed)

[Learn More](#)

02/15/2011 | [Akron OH 44314-3614](#)

Sponsor: Pioneer AR Fellowship

Location: Akron Baptist Temple

Time: 6:15 PM (Walk-ins allowed)

[Learn More](#)

02/20/2011 | [Elyria OH 44035-1343](#)

Sponsor: Lorain County ARA Red Cross

Location: American Red Cross

Time: 1:00 PM (Walk-ins allowed)

[Learn More](#)

LEARA "On The Air"

Club Net Information by David Noeth, KD8ACO

The weekly LEARA SSTV Net has returned to the 146.880 repeater on Friday nights at 7:30 PM. Thanks again to Terry, K8TJM, for leading the effort in resuming this net. Hope you give this net a try ...

Wednesday Skywarn Practice Net

Skywarn practice nets will be returning on February 16, 2011 on the 146.76 (- offset, 110.9 PL) repeater and will continue on Wednesday nights at 8:00 PM local time until the last week in October. Everyone is welcome! The 146.880 (- offset, 110.9 PL) repeater is used as a backup. Skywarn nets may be activated on one of these repeaters anytime threatening weather is approaching.

Thursday Club Net

The Lake Erie Amateur Radio Association's weekly club net is held every Thursday evening at 8:00 PM local time on the 146.76 (- offset, 110.9 PL) repeater. This is an open and informal net intended to provide the opportunity to test radio equipment, promote fellowship among local amateur radio operators, and develop radio traffic handling skills. You do not have to be a member of LEARA to participate.

Since the club net is a practice and informal net, LEARA would like to recognize those who take the time to check in and keep the net active and alive. During the past two months, the weekly Thursday Night Club Net had a total of one-hundred and thirty (130) check-ins from forty-six (46) different stations. The following were reported by our net control stations to have participated:

Bill AC8CO, David AD8WS, Clyde AE8C, Trenton AK4CV, Arp K8ARP, Mike K8EHP, Jeff K8JTK, Steve K8SAS, Bill K8SGX, Fritz K8WLF, John KA8GZA, Ross KB8JTZ, Jeff KB8PIH, Less KB8TGR, Leone KB8VBR, Carl KB8VXE, John KC8FOC, Mark KC8FQV, Jeannie KC8MNV, Tony KC8SXX, Jeanne KC8TJH, Jess KD8ACJ, David KD8ACO, Eddie KD8FTS, Laura KD8MBJ, Mary KD8NGC, Leon KD8NVX, Mark KD8OLG, Steve KD8OLH, Ken KG8DN, Mike KG8MTG, Don KJ5KB, Fred N8AHS, Eric N8AUC, Raye N8NAP, Tom N8UAZ, Bill N8UPZ, Bob W2THU, Matt W8DEC, Matt W8EBB, Stu W8STU, Tom W8TAB, John WA8LGM, Gary WA8TJL, George WD8GEO, and Alex WD8JMM.

Net Control Stations: Bill AC8CO, David KD8ACO, Bob W2THU, Eric N8AUC, and Ken KG8DN.

Upcoming NCS assignments are:

1/20/11	Ken	KG8DN
1/27/11	Matt	W8DEC
2/3/11	David	KD8ACO
2/10/11	Eric	N8AUC
2/17/11	Bob	W2THU
2/24/11	Matt	W8DEC

The feedback received from members regarding the Thursday Club Net promotion has been very encouraging. This promotion encourages participation in both the weekly club net, as well as, the monthly LEARA membership meetings. Specifically, any individual who checks into the Thursday Club Net during a given month will be given one extra door prize ticket at the following month's LEARA club meeting. This extra door prize ticket will be given in addition to any other door prize tickets the individual has already been given. Participation in only one net during the preceding month is required. Participation in the monthly meeting is obviously required.

Friday SSTV Net

The Lake Erie Amateur Radio Association's weekly slow scan TV net is held every Friday evening from October through April at 7:30 PM local time on the 146.880 (- offset, 110.9 PL) repeater. Now is the time to get your SSTV station setup and on the air.

The slow scan TV software recommended is MMSSTV. This free software is available online, just Google MMSSTV for a wealth of information. However, any SSTV program can be used. Are you new to this mode of operation? Contact any of the net control stations for assistance getting started! Even if you don't have a slow scan TV setup yet, you're still welcome to check in to the net just to say hello or to ask for more information about this interesting mode.

Wanted! Net Control Stations

We now have six Net Control Stations for the Thursday evening LEARA Club Net, but only one Net Control Station for the Friday evening LEARA SSTV Net. There's always room for more stations who would like to give it a try.

Any member of the Lake Erie Amateur Radio Association can be a net control operator for one or all of the nets held on one of the club's repeaters. Never tried it you say? No problem. Now would be a really good time to start. It's as easy as getting in touch with me and we'll schedule you into the rotation. If you should have any questions or requests for assistance to get started, just contact me at one of our club meetings or by using any of my contact information in the membership directory or send me an email at kd8aco@leara.org. Hope to talk with you "on the air" soon!

-AR-

Holiday Party is “Big Room” and “Bingo Bob” Blast

Photos on November 30th, Courtesy of Joe (N8IPC) and Joanne (KB8TGX) Swartz



February Meeting Solves More “Serious RFI” with WA8UIT

“Sorry, we have to get out of here, guys...” exclaimed host Bob Winston, W2THU, at the August meeting as the clock closed in on 9:30 PM. “The restaurant has to close.” Bob was interrupting the gathered LEARA members talking with **David Goodman, WA8UIT**, and studying his pricy personal Radio Frequency Interference (RFI) sniffing equipment. And therefore, by popular demand, Dave has agreed to return to Dimitri’s



to continue reviewing his professional career as a consultant for hams, for private companies and even for government agencies, including the Secret Service. Note on your (rather short February) calendar that this meeting with Dave is planned for the usual venue, Dimitri’s Restaurant, on **Tuesday, February 22, 2011**. Dinner begins at 6:30 PM and the meeting will start shortly after 7:30 PM. Look for details in your February Newsletter. **-AR-**

January 25	Nathan Stevens from Bulldog Battery
February 22	Dave Goodman, WA8UIT, and RFI
March 29	To Be Announced
April 11	Skywarn Training in Independence

Ham Radio Promotion Project Continues Apace

by Devere "Dee" Logan, W1HEO

LEARA is among 25 radio clubs that are members of the Ham Radio Promotion Project. Designed to assist clubs with their promotion and recruitment, the overall objective is to help stimulate the growth rate of the Amateur service by spreading the word about our hobby and to attract new licensees as well as club members.

"We're happy that LEARA is among the sponsoring clubs that recognize the need to grow our ranks by active recruitment," said "Dee" Logan, W1HEO, of Mentor, winner of the ARRL's 2006 McGan Award for Public Relations, and a project founder. "Clubs are tremendously important to the effort, by conducting various promotional activities, offering licensing classes and supplying volunteer members of a newly formed "Elmer Corps."

The promotion project includes a four-step process. **Promotion** is the initial phase, which includes publicity and promotion to raise awareness of Amateur Radio. **Prospecting** is the second step and includes identifying persons showing interest. Third is **qualifying** persons for recruitment into licensing classes or referral to study materials. The fourth step is **training**, with radio club classes or individual help offered.

One of the first goals of the project was to produce several promotional tools to make it easier for clubs to introduce Amateur Radio to the public. A major accomplishment was the production of a new, 15-minute video, "**Amateur Radio: Wireless Window to the World**," that introduces the public to our hobby. The video features numerous Cleveland-area radio amateurs involved in many aspects of ham radio, including emergency communication and DX. A copy of the video DVD was provided to LEARA as part of its membership package.

Other promotional items supplied to the club include a 50-page promotional handbook or "Toolkit," that is a handy "how-to" reference on conducting many promotional and publicity activities. Clubs also have access to a promotional banner that can be used in various demonstrations, a subscription to the *Ham Radio Promoter* newsletter, and free help from a professional public relations consultant.

Details of LEARA's promotional activities are requested and may be included in the bi-monthly promotion and recruitment column in *WorldRadio Online*. The *Promoter* newsletter also will report club activities and serve as an idea exchange.

The Project Website includes a variety of information on Amateur Radio for the public, a club directory, and back issues of the *Promoter* according to Don Ritchie, K8ZGW, the Website administrator. A list of "helping hams" or Elmer's is also found on the website, www.neoham.org.

"Many of the promotional tools provided to clubs -- such as signs and banners -- are being done by commercial firms at the lowest possible cost, but will be good quality in order to represent ham radio well," said project treasurer David Dennis, W8DDD. "We are watching our pennies, but expect that additional funds will be needed. So we're encouraging those who can support this important effort to make a donation." Copies of the video DVD are being offered for a \$10.00 donation to the project. Checks should be made payable to "HAC/RP Fund" and sent to P.O. Box 19, Willoughby, OH 44096-0019. **-AR-**

AMSAT News Service

Bulletin 318.04 November 14, 2010

Tnx to Joe, KC8RAN

Steve G0KYA and Alan G3NYK, of the Radio Society of Great Britain's (RSGB) Propagation Studies Committee, have released a free e-book called "Understanding LF and HF Propagation" In 2008/2009 Steve and Alan wrote a series of features on LF and HF propagation for the RSGB's "RadCom" magazine.

The features consisted of a month-by-month look at each HF band in turn, showing the reader the propagation modes behind each band and explaining some of the technicalities of ionospheric propagation. Steve says: "I looked at the D, E and F layers, Sporadic E, the MUF/LUF, using solar data, propagation programs, NVIS and much more.

"Alan then took over and wrote three detailed features on LF propagation. We are told that the features were well received and as a result I have managed to persuade the RSGB to allow me to put them together into a single document, which is now freely available for amateurs worldwide to download."

You can download your free copy of "Understanding LF and HF Propagation" at <http://www.g0kya.blogspot.com>

-AR-

**MEETING OF THE LAKE ERIE
AMATEUR RADIO ASSOCIATION
BOARD OF TRUSTEES**

MINUTES OF THE MEETING

Trustees present: KD8ACO, N8XDO, K8EHP, KG8DN, WA8TJL, WB8APD, N8YNR, W8AZO, W2THU, K8SGX, WD8JMM, K8JTK, N8AUC, N8OOF. Trustees absent: KC8FOC

1. The meeting was called to order at 0900 by WD8JMM.

2. The minutes of the previous meeting were accepted after the following corrections: Minute no. 7, Bill Hess' call sign should be K8SGX. Minute no. 15, KC8MYE's first name is spelled Lori.

3. Treasurer's Report - WB8APD reported that the treasury has sufficient funds, most of which are in the Chase Bank account, and a small amount in the PayPal account.

4. Membership Chair's Report - W8AZO reported that we have 122 paid up members and 94 more that need to renew by the end of March 2011.

5. Bylaw Revision Committee Report – K8EHP circulated a two page document with proposed revisions pertaining to election procedures. N8YNR pointed out that the committee hadn't yet met. Mike was praised for starting early and the committee will try to finish its work by the next Trustee's meeting.

6. Location of Future Trustee's Meetings - K8SGX moved and W2THU seconded that the meetings continue to be held at the Highland Hills Village Hall. The motion passed unanimously.

7. Programs for 2011 – N8AUC reported that someone from Bulldog Battery will be the January program and W2THU confirmed that Dave Goodman, WA8UIT will come in February to continue his program from last August on RFI. It was the consensus of the Board that the traditional March Skywarn

meeting should be separated from our regular dinner meeting and held at an appropriate site. K8SGX moved and N8YNR seconded that LEARA spend up to \$200.00 to rent an appropriate location. This motion passed 13 to 1. However, the discussion turned out to be moot as K8SGX pointed out that NWS had already scheduled a Cuyahoga County Skywarn program in Independence. This was confirmed by K8JTK.

8. List of Standing Committees – WD8JMM had requested that we identify these committees and their members. It was determined that they are as follows:

Bylaw Revision Committee:
K8EHP, N8YNR, N8OOF

Technical Committee:
K8SGX, N8OOF, N8AUC, N8YNR,
K8JTK, WA8TJL, WD8JMM, and WB8APD

IRLP Committee:
N8YNR, WB8APD, K8JTK

9. Access List for Repeater Sites – WD8JMM had requested that we identify those individuals that are authorized to access our repeaters.

By discussion and consensus, the board agreed on the list of members who should be granted access to either the Eastside or Westside repeater sites. (Members may contact an officer or a member of the technical committee for details.)

A discussion then ensued as to how we could access this UHF repeater remotely, either over the air or via the internet. N8YNR said he will find a solution. There was further discussion regarding making sure that the correct PL tone for 146.88 was listed in the ARRL repeater directory, which gets its information from the OARC. Repeater Council renewal forms with the appropriate information were filled out by WB8APD.

(Continued on page 9)

(Continued from page 8)

10. Status of the IRLP Node on 146.88 – The IRLP has been down for a couple of months. WB8APD had brought the box home and replaced the memory. N8YNR pointed out that the Board had already appropriated money to install a solid state hard drive in the computer. K8JTK said that he wants to correct the audio path upon reinstallation of the box. The IRLP committee will shortly schedule a visit to LCNorth to reinstall.

11. LEARA SSTV Net – KD8ACO reported that we have a volunteer to restart this net. It is Terry McCann, K8TJM, who wants to move it to Friday nights at 1930. Terry is willing to run it weekly but welcomes some help. He will end it on 15 April, rather than Memorial Day. This information will be published in the club Newsletter and on the website.

12. Technical Committee Report – Other than already reported above, N8OOF said he has obtained a fiberglass 70cm antenna to be installed at N8YNR's QTH for the 444.40 repeater. The present antenna is located in the attic due to HOA restrictions.

13. Six Meter Repeater Radio – Alex brought in the GE 6 meter transmitter marked 53.23. He will give it to Marv to be transferred to Raye, who is attempting to sell the club's now decommissioned 6 meter repeater.

14. LEARA QSL Cards – N8AUC brought in a sample. The only problem is that the LEARA logo that he downloaded from the website is too large. W8AZO said that he had a smaller logo file that he would send to Eric. The cards will be used for the next Field Day contest.

15. Old Business –

a) K8SGX had presented a bill for parts to build the new 146.76 repeater in the amount of \$253.73. N8AUC moved that it be paid. After a proper second the motion passed unanimously.

b) N8XDO asked if we are getting tired of the same old menu items at Dimitri's. The consensus was yes, so Jim will consult with the restaurant.

c) W8AZO queried if the bylaws revision committee was considering reducing the number of trustees, or the number of vice presidents, etc.

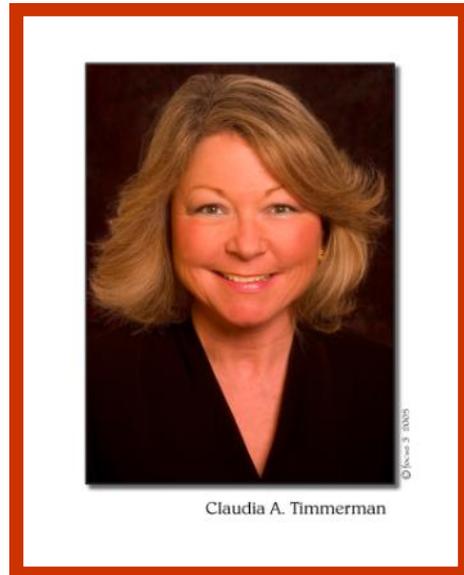
16. New Business –

a) WD8JMM would like LEARA to have a club historian. He said that K8SGX had already volunteered. N8AUC moved and N8OOF seconded that Bill should be the club historian. The motion passed unanimously. N8XDO and W2THU promised to turn over all of the club documents in their possession to Bill.

b) KG8DN wants someone to proofread the Newsletter before he publishes it. W8AZO and N8YNR volunteered.

16. The meeting was adjourned at 1055.

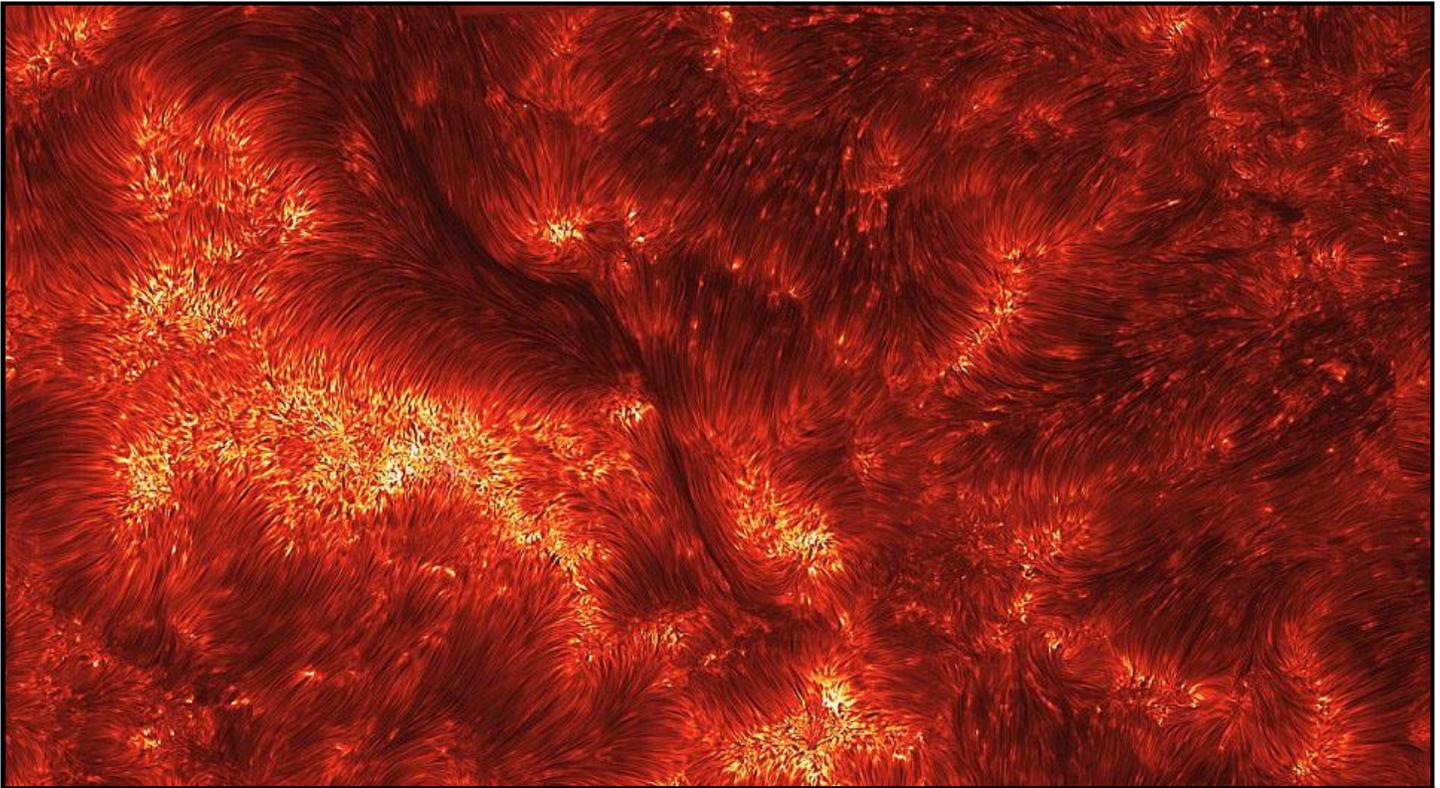
Respectfully submitted,
Robert M. Winston W2THU
Recording Secretary



Claudia A. Timmerman

Remembering Claudia

*The officers and members of the Lake Erie Amateur Radio Association offer sincere condolences to **Tom Bishop, W8TAB,** and his family on the recent death of Tom's spouse, **Claudia Timmerman-Bishop***



Stunning new image of sun's surface covered in fiery 'tubes' of plasma.

Detail captured in October by space scientist Kevin Reardon, of the School of Mathematics and Physics at Queen's University, Belfast, Northern Ireland, while in Italy at Osservatorio Astrofisico di Arcetri, Firenze.

This part of the image covers about 50,000 square miles of the solar surface.

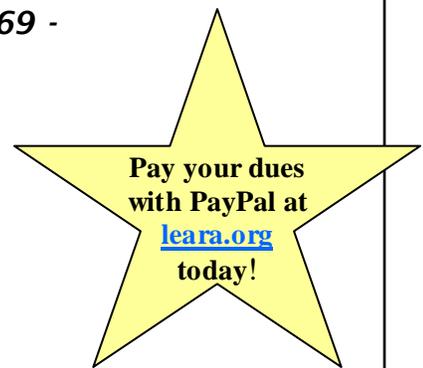
Source: *Mail Online* by David Derbyshire and Niall Firth, 4 November 2010

LEARA — The Lake Erie Amateur Radio Association

- 41 Years of Serving Greater Cleveland Since 1969 -

VOICE REPEATERS:

- | | |
|-----------------------|--|
| 146.76/R- | • Highland Hills (Requires 110.9 Hz tone) |
| 146.88/R- <i>IRLP</i> | • Lakewood (Requires 110.9 Hz tone) IRLP Node 4282 |
| 224.90/R- | • Lakewood (141.3 Hz tone) |
| 444.40/R+ | • Macedonia (Requires 131.8 Hz tone) |
| 444.70/R+ | • Lakewood (131.8 Hz tone) |



PACKET NODES: CLE1 145.01 MHz: CLE5 145.05 MHz: CLEV220 223.70 MHz

These nodes are part of the Cleveland Net Cluster in K8EIW's backbone system.

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