

DELAWARE LEHIGH AMATEUR RADIO CLUB Inc.
MARCH 2016



W3OK

CORRAL

**Club Meeting March 3rd, 7:30PM At the
Bethlehem Township Community Center**

MARCH MEETING PROGRAM

“Emergency Communications”

“WT” / WN3LIF



FEBRUARY MEETING PROGRAM

“Northampton County District Attorney”

John Morganelli



MINUTES FROM THE FEBRUARY MEETING

A general membership meeting of the Delaware-Lehigh Amateur Radio Club Inc. (the Club) was held on February 4, 2016, at the Bethlehem Township Community Center located in Bethlehem Township, Pennsylvania.

Call to Order: Bill / W3MJ President, called the meeting to order at 1930 hrs.

Pledge of Allegiance: Led by Bill / W3MJ.

Member Happenings: Bill / W1PV said that he brought parts obtained from W3TDF's estate and were available for purchase by the piece or by the lot.

Approval of the Minutes: Larry / AB3TY asked if there were any additions or corrections to the minutes as they appeared in the last newsletter. Bill / W3MJ asked for a motion to approve the minutes of the last meeting.

Motion: It was moved by Bob / NE2C, second by Jay / N3OW. **Motion carried.**

Treasurer's Report: Mike / KB3LOD presented the Treasurer's Report for December. Bill / W3MJ asked for a motion to accept the report as read.

Motion: It was moved by Skip / KD2BDA, second by Jo Anne / KC3EZS. **Motion carried.**

Club Station: No issues were reported. Dave / NB3R said that K5P / Palmyra DXpedition and VP8SGI / George Island were contacted from the Milkhouse.

Club Repeater: No issues were reported

Website: No issues were reported. Brad / W3JXQ said that he had inadvertently deleted active members when he was removing those no longer active in the club. Active members who cannot log into the website need to re-register. In addition, Brad reported that Rich / WC3T will be helping with the website.

Membership Report: Frank / W3WOW announced the Club to date has 166 members. The following new members were read into the membership roll: Gary Gardner / KB3HLG; William Brennan / KC3FXJ; George Colby / Novice- no call sign; George Bacskai / WA2GFR. Bill / W3MJ asked for a motion to accept the new members.

Motion: It was moved by Carl / AA3IX, second by Ray / KB3TEL. The vote was unanimous for approval. **Motion carried.**

Education Classes: Bob / KE3AW said the Spring classes will begin on Tuesday March 8 for a total of 9 classes. A V.E. session will be held on May 10. Bob has books available for the Tech and General classes. Bob can also order books for the Extra exam even though a class is not offered at this time.

Elmers: Bill / W3MJ offered that there are many members who are willing and able to help new Hams. Chris / NU3L added that in the past there was a Elmer mentoring program and perhaps it should be reconsidered. Bill / W3MJ noted the Milkhouse is a great place for new Hams to come with their questions and observe.

Visitors: Rich / KC3EBW and Lenny.

Tribute to Ray / W3TDF: Bill / W3MJ said the Board had voted to dedicate the upcoming Field Day to Ray / W3TDF along with a banner to be hung at the entrance to the pavilion in Louise Moore Park. Bill then opened a discussion to also adding other SKs to the banner after this year's Field Day. Larry / AB3TY added that there was the thought to dedicate this and subsequent Field Days to Ray by calling the event The Ray Bilger Memorial Field Day. Pete / NL7XM moved to adopt the concept of dedicating Field Day to Ray. Barry / KU3X asked if it would be for every Field Day Bill / K3ANS added that over the years many members were very involved with Field Day and they might also be included. Skip / KD2BDA said that the dedication to Ray could be limited to this year. Bill / W3MJ made a motion to dedicated this year's Field Day to Ray.

Motion: It was moved by Dave / NB3R, second by Chris / NU3L.

Contribution: Larry / AB3TY announced that a contribution by the Club, in Ray / W3TDF's name had been made to St. Luke's Hospice.

Pete's Corner: Pete / NL7XM presented his book of interest. This month's pick is *Ham Radio's Technical Culture* by Kristen Haring.

SK: Brad / W3JXQ announced the passing of Peter J. Frank / KB3JWQ.

Adjournment: There being no further business before the Club, the meeting adjourned the meeting at 2000 hrs.

Respectfully submitted by Larry / AB3TY, Secretary

MARCH CONTESTING AT THE OK CORRAL

March 5 & 6 – ARRL International DX Contest- SSB

– Open Ukraine RTTY Contest

March 12 & 13 – RSGB Commonwealth Contest

- South America 10 meter Contest

March 19 & 20 – SARL VHF / UHF Analogue / Digital Contrst

- Russian DX Contest

March 26 & 27 – CQ WW WPX Contest - SSB



VE TEST SESSION

There will be a test session this month on March 4th at 7 PM at the Northampton County 911 center. Pretest registration is required. Contact George / N3SQD at george@bioserv.com or Al / W3CE at w3ce@arrrl.net

NEW MEMBERS

The DLARC is continuing to grow, so be sure to greet our new members, shake their hands, and give them a warm welcome to our club. The newest members are Gary Gardner / KB3HLG, William Brenab / KC3FXUJ, George Bacskai / WA2GFR and George Colby (No Call).

MARCH QUICK CHECK CALENDAR

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|------------------------------------|--------|-----------------|-----------------------|--------------------------|----------------|----------|
| | | 1 | 2 DLARC Net (K3PDL) | 3 DL ARC MEETING 7:30 PM | 4 VE SESSION | 5 |
| 6 | 7 | 8 CLASSES BEGIN | 9 DLARC Net (KB3WYJ) | 10 | 11 | 12 |
| 13 Daylight Saving Begins | 14 | 15 CLASSES | 16 DLARC Net (KC3EZZ) | 17 St Patrick's Day | 18 | 19 |
| 20 Palm Sunday First day of Spfing | 21 | 22 CLASSES | 23 DLARC Net (NB3R) | 24 DLARC BOARD MEETING | 25 Good Friday | 26 |
| 27 EASTER | 28 | 29 CLASSES | 30 DLARC Net (W3CE) | 31 | | |

Silent Key

The D.L.A.R.C. Wishes to honor and to express its sadness at the passing of a club member or former club member.

PETER J. FRANK / KB3JWQ

AMATEUR RADIO CLASSES – SPRING 2016

DLARC will offer free classes to anyone (ages 8 to 80+) who may be interested in becoming an Amateur Radio Operator. The classes are designed to help potential amateur radio operators learn about amateur radio, and prepare them for the FCC Amateur Radio multiple-choice examination leading to the Amateur Radio license.

The classes will begin on Tuesday, March 8, 2016, and will be held for a total of 9 Tuesdays, 7 PM – 9 PM in the Nazareth area.

If you are interested in learning about ham radio and earning your license to transmit on the amateur radio bands, please contact me for details.

If you know someone who may be interested, please have them contact me for details. I'll be happy to answer questions about getting into ham radio, and provide interested persons with directions to the class location from wherever they will be coming.

Bob Green / KE3AW at ke3aw@arrrl.net 610 432-8286

WEDNESDAY NIGHT NETS

Additional Net Controls are needed for the Wednesday Night ARES, RACES & DLARC net. If we have enough interested operators, it will only be necessary for each operator to have only one net session in each three month period. Actually 13 weeks in a period, so 13 net controls would be ideal, and maybe some extras to fill in if needed. This would give us a pool of experienced controls, for any emergency which would arise. Interested operators should contact Don / KC3II at kc3ii@arrrl.net. The NIMS IS-700 and ICS-100 courses are not required to be a net control, but should the need arise and we do supply controls and operators for real emergencies, then the course requirements will be in effect and EMA issued IDs will be needed to be on the scene of an emergency.

A NOBLE MAN WITHOUT A NOBEL

Jagadis Chandra Bose

Celebrity author Leo Tolstoy has remarked in his short story entitled *The Exile*: God sees the truth, but waits.... This is exactly what happened, in case of J. C. Bose. Today, the world knows Marconi, an Italian experimentalist, as the inventor of radio waves. But it was Bose, who first invented a device called Mercury Coherer, which could transmit and receive radio waves. It is used in mercury tube and telephone. One of Marconi's close friends, Luigi Solari, a lieutenant in the Italian Navy, drew Marconi's attention towards Bose's invention. He made minor changes in the devices, such as the U-tube was turned into straight tube. A device just a replica of the Bose's instrument was presented for a patent by Marconi, on September 9, 1901. He was credited by the world for sending the radio signals across the Atlantic Ocean, for the first time.

He was invited to deliver a lecture on his invention at the Royal Society of England on June 13, 1902. During the speech, he did not even care to acknowledge the name of J. C. Bose whose pioneering efforts bore him the fruits.

Heinrich Rudolf Hertz was the original propounder of the theory of Radio Physics and Bose and Marconi used his research findings. Hertz died in 1894. Marconi won the Noble Prize in Physics in 1909. If Hertz had been alive then he would probably have shared the honor.

When Marconi was interviewed by the McClure magazine, the interviewer questioned, "What is the difference between these electrical waves, that can penetrate through mountains, buildings etc., and Hertz waves?" Marconi uttered, "I can't say that, since I am not a scientist. In fact, I doubt whether any scientist knows it at all. But I can have a faint guess, that it may have something to do with waves..." The irony was, the person lacking the knowledge about the radio wave was awarded the Nobel Prize and honored as the father of solid state and microwaves. Moreover, the person, who actually devised the instrument from which the microwaves generated and transmitted for the first time, was left unrecognized and unsung in the history of science. Even one of the assistants and a biographer of Marconi, Mr. Vivian, clearly mentioned that it was nothing but the mercury coherer that Marconi used. In several writings, even Marconi admitted that he had no education or knowledge about radio waves.

During his lifetime Bose never considered all the dark games being played behind him. His belief was : It is the invention, which is of importance for the mankind, not the inventor. He never expressed grief for not receiving the prestigious Nobel Prize.

Bose invented several instruments, which have industrial applications even today. He was offered money and could have made a fortune but never accepted it. He never chased money and permitted anyone to use the fruits of his researches. He was very generous and noble; who never exploited the patents granted for personal and monetary gain. He talked about his inventions as if they were open to the entire world to adopt and accept for practical and money-making purposes. His patriotic zeal is displayed in the following words : "The spirit of our national culture demands that we should for ever be free from the desecration of utilizing knowledge for personal gain".

HIS FRIENDLY NATURE

Besides science, Bose was also interested in literature. Rabindranath Tagore, the Nobel Prize winning Indian poet, was a close friend of J.C. Bose. When Tagore visited Bose for the first time, he was not present. So Tagore put a flower bouquet on his desk, and these flowers came to form a link of friendship between the two great personalities. Bose always enjoyed his company. It was Tagore who encouraged him to spread the message of his scientific breakthrough all over the world. In those days, Rabindranath Tagore was not famous in the West. J. C. Bose helped him in publishing some of his stories. At the fag end of his life, Tagore wrote that his brothers, their families and several servants surrounded him in his huge mansion. Though he felt alone only Jagdishbabu helped him escape loneliness.

Not only Tagore, but also three other renowned personalities – Albert Einstein, Romain Rolland and George Bernard Shaw had intimate friendship with J.C. Bose.

Bose was a simple man bereft of ego and warm at heart. This helped him develop friendships with many a great personalities of his age.

BOSE RESEARCH INSTITUTE

Apart from his scientific inventions, Dr. J. C. Bose laid the foundation of Bose Bigyan Mandir, which is popularly known as Bose Research Institute. It was the first laboratory founded and funded fully by an Indian, in India. He spent about Rs. 5,00,000, the entire savings of his lifetime, to build and equip the Institute. He dedicated the Institute to the nation for the progress of science on November 30, 1917, his 60th birth anniversary. While inaugurating the Institute he said, "This is not a laboratory but a temple". Bose knew the importance of a well-equipped research center in India and wanted that every Indian should be full of enthusiasm to put India on the fast track of the scientific world.

His main aim behind the foundation of the Institute was to "wring out from nature some of her most jealously guarded secrets".

Bose worshiped in this Temple for 20 years, till his death. He stuck to the belief derived from his parents : "We should not depend on others to do our work, we ourselves must do our work, but before we can do this we must get over our pride". The Bose Research Institute, the fulfilled dream of Dr. J.C. Bose, is presently working as a full-fledged research center in Calcutta. Much of the original equipment used by Bose during the research work as well as his ashes are enshrined at the Institute.

J.C. BOSE: CAN WE CALL HIM THE FATHER OF RADIO?

Nearly 100 years after Guglielmo Marconi's first transatlantic wireless communication, a group of scientists of the US-based Institute of Electronics and Electrical Engineers (IEEE) reported that -"the origin and first major use of the solid state diode detector devices led to the discovery that the first transatlantic wireless signal in Marconi's world famous experiment was received by Marconi using the iron-mercury-iron coherer with a telephone detector invented by Sir J.C.Bose in 1898".

Bose's invention of the **"mercury coherer with a telephone"** which Marconi used was published in the **Proceedings of the Royal Society, London, on April 27, 1899**, over two years before Marconi's first wireless communication on **December 12, 1901, from Now in Canada.**

Investigations by the IEE group show that both **Bose and Marconi were in London in 1896-97.** The Italian was conducting wireless experiments for the British post office and Bose was on a lecture tour. **Both the scientists were interviewed by McClure's Magazine (now defunct) in March 1897.**

In the interview, Bose came out with high praise for Marconi, then under attack from established British scientists who doubted his credentials. Marconi never could make it to college because of his poor high school record. Bose also said he was not interested in commercial telegraphy and that others could use his research work

In 1899, Bose unveiled his invention of the mercury coherer with the telephone detector in a paper at the Royal Society. Brilliant Marconi quickly grasped the commercial importance of Bose's invention and began to explore it secretly. His childhood friend Luigi Solari started experimentally with Bose's invention and presented Marconi with a slightly modified design in the summer of 1901 for use in the upcoming transatlantic experiment.

FEBRUARY MEETING PROGRAM

The guest speaker was John Morganelli, District Attorney for Northampton County. Presenting an outline of the Northampton County judicial system. He explained how he was a lifetime Northampton County resident and had been County District Attorney for 25 years, and he is the County District Attorney With the longest tenure in the state of Pennsylvania.

Distict Attorney Morganelli explained how the county system was set up in and how it functioned. Giving a breakdown on the various personnel and how they functioned within the system. How he introduced a system of the departments to handle the various different crimes that came through his office. Also explained was that he wasn't just an administrative district attorney and that he also handled trials.

He finished up with a question and answer session which covered questions about the present County system and current events from around the state and also the country. Included the present Pennsylvania state Attorney General Iwoes. Questions about convicts on death row, and his feelings about the handling of cases around the country.



NOTICE

Besure to check the sale listing on the DLARC Webpage. Skip / W1PV has the listing of Ray / W3TDF's ham radio estate.

MONTHLY BRAIN TEASER

"A special prize awaits the first Club Member to submit the correct answer to this month's Brainteaser to the Pete / NL7XM, only, at nl7xm@arrl.net The winner must be present at the next Meeting to receive it, or it goes unrewarded. Officers, Board members, Newsletter staff, and Brain Teaser Authors are not eligible to win."

de Pete / NL7XM

FEBRUARY BRAINTEASER ANSWER

$$[(4! - .4) / .4] - 4 = 55$$

Note: 4! is the factorial of 4, which is 4 x 3 x 2 x 1 which is 24.

Winner – **NO WINNER**

MARCH BRAINTEASER

Find a number less than 100 that is increased by one-fifth of its value when its digits are reversed



HOW TO OBTAIN AN OFFICIAL FCC LICENSE COPY

The FCC went paperless in February 2015. In order to streamline procedures and save money, the FCC stopped routinely printing and mailing licenses.

There are a number of ways a license holder can obtain an official FCC copy of their license. The official license will display the FCC logo and the watermark "Official Copy" will be printed across each page of an official authorization from FCC.

Please note that FCC stopped using distinctive paper stock to produce hard copy licenses and has been printing these on "standard, white recycled paper." The Bureau noted that the distinctive paper stock it had used was six times more expensive than the plain recycled paper it now uses.

Instructions

Choose the Method that's Right For You

Download and Print License: The licensee can log into the FCC ULS License Manager System <http://wireless.fcc.gov/uls/> with their FRN and password to 'Download the Electronic Authorization' of the official license. On the 'Download Authorizations' page the license holder will add their call sign to the 'Authorizations to Download' and then click download. The PDF of the license can be saved to a computer and printed later or the file can be opened and printed immediately.

2. Log in and Set Paper Preferences: The licensee can log into the FCC ULS License Manager System <http://wireless.fcc.gov/uls/> with their FRN and password and choose 'Set Paper Authorization Preferences'. This option determines whether a user will receive paper authorizations (printed license and FRN information) from the FCC for future mailings.

On the 'Set Paper Authorization Preferences' page, the license holder would select either YES or NO and then click SAVE. By selecting YES, you will continue to receive paper authorizations printed and mailed by the FCC. By selecting NO, you will not receive authorizations printed and mailed from the FCC. This preference will affect all granted authorizations on this FRN.

3. Receive License via Email: When modifying, renewing or requesting a duplicate copy of the license, a licensee who already has an FCC Registration Number (FRN) and provides a valid e-mail address under "Applicant Information" while logged in to the ULS system will receive an official ULS-generated electronic authorization via e-mail.

The action of adding a valid e-mail address into the FCC system can also be performed by a VEC filing new, upgraded, modified or renewed licenses on behalf of applicants. All exam applicants should include a valid email address on their NCVEC 605 form, in order to receive their license electronically. 4. Contact FCC: Licensees may contact FCC Support via the web, by telephone (1-877-480-3201) or by mail to request paper licenses. Please note that FCC stopped using distinctive paper stock to produce hard copy licenses and has been printing these on "standard, white recycled paper." The Bureau noted that the distinctive paper stock it had used was six times more expensive than the plain recycled paper it now uses. ADDITIONAL INFORMATION An unofficial "reference copy" can always be printed from the FCC's ULS License database



DAYLIGHT SAVINGS TIME

Daylight saving time (DST)—also **summer time** in several countries including in British English and European official terminology is the practice of temporarily advancing clocks during the summertime so that evenings have more daylight and mornings have less. Typically clocks are adjusted forward one hour near the start of spring and are adjusted backward in autumn. Modern DST was first proposed in 1895 by George Vernon Hudson and it was first implemented during the First World War. Many countries have used it at various times since then; Details vary by locations.

The practice has been both praised and criticized. Adding daylight to evenings benefits retailing, sports, and other activities that exploit sunlight after working hours, but can cause problems for evening entertainment and other occupations tied to the sun. Start of spring and are adjusted backward in autumn.

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The practice has been both praised and criticized. Adding daylight to evenings benefits retailing, sports, and other activities that exploit sunlight after working hours, but can cause problems for evening entertainment and other occupations tied to the sun. Its effect on health and crime is less clear. Although an early goal of DST was to reduce evening usage of incandescent lighting formerly a primary use of electricity, Modern heating and cooling usage patterns differ greatly, and research about how DST currently affects energy use is limited or contradictory

DST clock shifts present other challenges. They complicate timekeeping, and can disrupt meetings, travel, billing, recordkeeping, medical devices, heavy equipment, and sleep patterns. Software can often adjust computer clocks automatically, but this can be limited and error-prone, particularly when DST protocols are changed.

So now having read this brief history, do not forget to turn your clocks ahead one hour on March 13.

REDNERS' SUPERMARKETS SAVE-A-TAPE PROGRAM

Here's how it works:

Redner's has a terrific program to support the Club **AT NO COST TO THEM**, if our members simply sign up for a Gas Card that records their shopping points, and give their cash register receipts to, **Pete / NL7XM**, He'll do the rest.

Note: This does not affect your gas points in any way.

HELP THE ENVIRONMENT

Donate your old, empty printer ink cartridges to the Club for recycling. Any brand, model, size or shape; color or black. Please bring them to the meeting in a leak proof ziplock type baggie and give them to Pete / NL7XM. This simple act can help your Club by reducing recurring expenses, and make you feel a lot better about our environment.

CHANGING OF THE GUARD

Rick Roderick / K5UR, Elected as ARRL's 16th President

The ARRL Board of Directors has elected ARRL First Vice President Rick Roderick, K5UR, of Little Rock, Arkansas, as ARRL President. The Board took the action as it convened for its 2016 Annual Meeting January 15-16 in Windsor, Connecticut. Roderick, 63, officially assumed office for a 2-year term at the conclusion of the Annual Meeting. He is the ARRL's 16th president, succeeding Kay Craigie, N3KN, of Blacksburg, Virginia, who had served for three terms since being elected in 2010.

A ham for 48 years, Roderick is an attorney. He has served on the ARRL Board of Directors for 24 years and is an enthusiastic Amateur Radio operator and DXer on HF and VHF/UHF. He and his wife Holly have two adult children.

The Board also chose other officers, electing Dakota Division Director Greg Widin, K0GW, of Stillwater, Minnesota, as First Vice President, succeeding Roderick, and Rocky Mountain Division Director Brian Milesosky, N5ZGT, of Albuquerque, New Mexico, as Vice President, succeeding Jim Fenstermaker, K9JF. Roderick, Widin, and Milesosky all are ARRL Life Members. Fenstermaker was later named by the Board as an ARRL Honorary Vice President.

As a result of the Vice President election, Rocky Mountain Division Vice Director Dwayne Allen, WY7FD, of Sundance, Wyoming, has become the new Division Director, succeeding Milesosky, while Dakota Division Vice Director Kent Olson, KA0LDG, of Horace, North Dakota, has become the new Division Director, succeeding Widin. President Roderick will fill the Vice Director vacancies.

In other action, the Board re-elected International Affairs Vice President Jay Bellows, K0QB, Chief Financial Officer Barry Shelley, N1VXY, and Chief Technology Officer Brennan Price, N4QX.

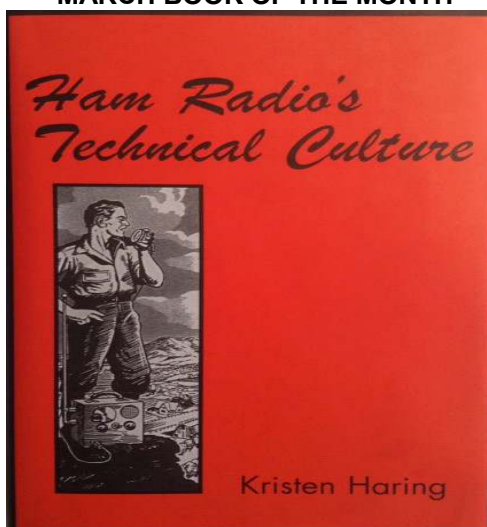
The Board also elected one new member to the Executive Committee, which can act on the behalf of the Board between its two yearly meetings in January and July. Delta Division Director David Norris, K5UZ, will replace New England Division Director Tom Frenaye, K1KI, on the panel. The other Director members are Hudson Division Director Mike Lisenco, N2YBB; West Gulf Division Director Dr David Woolweaver, K5RAV; Pacific Division Director Bob Vallio, W6RGG, and Great Lakes Division Director Dale Williams, WA8EFK.

ARRL Chief Operating Officer Harold Kramer, WJ1B, also was attending his final meeting in an official capacity. He will retire on March 1 after about 11 years at ARRL Headquarters.

The Board considered the recommendations of the CEO Search Committee and selected a candidate to succeed ARRL Chief Executive Officer David Sumner, K1ZZ, who is retiring this spring after 44 years on the ARRL Headquarters staff. A formal announcement is pending.

In other action, the Board approved an annual budget that contains an operating surplus this year, in the wake of a deficit last year. The overall budget was \$15.3 million, approximately the same as the previous year's spending plan.

MARCH BOOK OF THE MONTH



JANUARY 2016 SNOW EMERGENCY

On Friday January 21st, Northampton County Emergency Management alerted the DLARC Emergency Coordinator to the possible need for transportation during the up coming snow storm. Ben / KB3CTS in the absence of George / N3SQD put out the call for the members with four wheel drive to stand by for any possible runs. As it turned out there wasn't a need for the DLARC's services, but they were ready.

APRIL DXPEDITION

For county hunters, Kalawao County on the Hawaiian island of Molokai is one of the rarest. The county is the tiny Kalaupapa Peninsula, reachable only by plane or a muleback descent of a 1,600-foot sea cliff. It is a former leper colony, now a national park.

https://en.wikipedia.org/wiki/Kalaupapa,_Hawaii

The Kalaupapa National Historical Park is scheduled to be activated for NPOTA (National Parks On The Air) HP18 from Friday, April 1 through Sunday, April 3. Five operators from Oahu will activate the location.

KH7C, Bart Aronoff

WH6GS, Jim Yuen

AH6NF, Bev Yuen

AH6RH Ron Hashiro

KH7U, Kimo Chun

The bands scheduled for operations are: 40 meters through 10 meters. Two HF stations near the general vicinity of Kalaupapa Airport are in the current plans.

A contact with Kalaupapa counts for a contact with Kalawao County, as well as IOTA OC-019, and DX entity KH6.

Further details will be forthcoming on the expedition's Facebook page, which is open to the public.

https://www.facebook.com/groups/1571107169881302/?notif_t=group_added_to_group

ELECTRICAL THEORY

JOSEPH LUCAS

(For those who do not recognize the name Lucas, please know that in the earlier days of the auto, Lucas auto electrical components and systems were famous for their unreliability.)

Positive ground depends on proper circuit functioning, which is the transmission of negative ions by retention of the visible spectral manifestation known as "smoke".

Smoke is the thing that makes electrical circuits work. We know this to be true because every time one lets the smoke out of an electrical circuit, it stops working. This can be verified repeatedly through empirical testing.

For example, if one places a copper bar across the terminals of a battery, prodigious quantities of smoke are liberated and the battery shortly ceases to function. In addition, if one observes smoke escaping from an electrical component such as a Lucas voltage regulator, it will also be observed that the component no longer functions. The logic is elementary and inescapable!

The function of the wiring harness is to conduct the smoke from one device to another. When the wiring springs a leak and lets all the smoke out of the system, nothing works afterward.

Starter motors were considered unsuitable for British motorcycles for some time largely because they consumed large quantities of smoke, requiring very unsightly large wires.

It has been reported that Lucas electrical components are possibly more prone to electrical leakage than their Bosch, Japanese or American counterparts. Experts point out that this is because Lucas is British, and all things British leak. British engines leak oil, British shock absorbers, hydraulic forks and disk brake systems leak fluid, British tires leak air and British Intelligence leaks national defense secrets.

Therefore, it follows that British electrical systems must leak smoke. Once again, the logic is clear and inescapable.

In conclusion, the basic concept of transmission of electrical energy in the form of smoke provides a logical explanation of the mysteries of electrical components especially British units manufactured by Joseph Lucas, Ltd.

And remember: "A gentleman does not motor about after dark!" Joseph Lucas: The Prince of Darkness" 1842-1903

A few Lucas quips:

The Lucas motto: "Get home before dark"

Lucas is the patent holder for the short circuit.

Lucas - Inventor of the first intermittent wiper.

Lucas - Inventor of the self-dimming headlamp.

The three-position Lucas switch--DIM, FLICKER and OFF. The other three switch settings--SMOKE, SMOLDER and IGNITE.

The Original Anti-Theft Device - Lucas Electrics.

If Lucas made guns, wars would not start

Q: Why do the British drink warm beer? **A:** Because Lucas makes their refrigerators.

Today's scientific question is: What in the world is electricity and where does it go after it leaves the toaster?

Here is a simple experiment that will teach you an important electrical lesson: On a cool dry day, scuff your feet along a carpet, then reach your hand into a friend's mouth and touch one of his dental fillings. Did you notice how your friend twitched violently and cried out in pain?

This teaches one that electricity can be a very powerful force, but we must never use it to hurt others unless we need to learn an important lesson about electricity.

It also illustrates how an electrical circuit works. When you scuffed your feet, you picked up batches of "electrons", which are very small objects that carpet manufacturers weave into carpet so that they will attract dirt.

The electrons travel through your bloodstream and collect in your finger, where they form a spark that leaps to your friend's filling, then travel down to his feet and back into the carpet, thus completing a "round trip", since the total number of electrons in the carpet must remain constant.

AMAZING ELECTRONIC FACT: If you scuffed your feet long enough without touching anything, you would build up so many electrons that your finger would explode! But this is nothing to worry about unless you have carpets throughout your house or place of employment.

Although we modern persons tend to take our electric lights, radios, mixers, etc. for granted, hundreds of years ago people did not have any of these things, which is just as well because there was no place to plug them in. Then along came the first Electrical Pioneer, Benjamin Franklin, who flew a kite in a lightning storm and received a serious electrical shock.

This proved that lightning was powered by the same force as carpets, but it also damaged Franklin's brain so severely that he started speaking only in incomprehensible maxims, such as, "A penny saved is a penny earned." Eventually he had to be given a job running the post office.

After Franklin came a herd of Electrical Pioneers whose names have become part of our electrical terminology: Myron Volt, Mary Louise Amp, James Watt, Bob Transformer, etc.

These pioneers conducted many important electrical experiments. Among them, Galvani discovered (this is the truth) that when he attached two different kinds of metal to the leg of a frog, an electrical current developed and the frog's leg kicked, even though it was no longer attached to the frog, which was dead anyway.

Galvani's discovery led to enormous advances in the field of amphibian medicine. Today, skilled veterinary surgeons can take a frog that has been seriously injured or killed, implant pieces of metal in its muscles, and watch it hop back into the pond -- almost.

But the greatest Electrical Pioneer of them all was Thomas Edison, who was a brilliant inventor despite the fact that he had little formal education and lived in New Jersey. Edison's first major invention in 1877 was the phonograph, which could soon be found in thousands of American homes, where it basically sat until 1923, when the record was invented.

But Edison's greatest achievement came in 1879 when he invented the electric company. Edison's design was a brilliant adaptation of the simple electrical circuit: the electric company sends electricity through a wire to a customer, then immediately gets the electricity back through another wire, then (this is the brilliant part) sends it right back to the customer again.

This means that an electric company can sell a customer the same batch of electricity thousands of times a day and never get caught, since very few customers take the time to examine their electricity closely. In fact, the last year any new electricity was generated was 1937.

Today, thanks to men like Edison and Franklin, and frogs like Galvani's, we receive almost unlimited benefits from electricity.

For example, in the past decade scientists have developed the laser, an electronic appliance so powerful that it can vaporize a bulldozer 2000 yards away, yet so precise that doctors can use it to perform delicate operations to the human eyeball, provided they remember to change the power setting from "Bulldozer" to "Eyeball."

All very marvelous don't you think?

Now - I can vouch for the Smoke Theory.

Two weekends ago my TV (A German Telefunken - doesn't always have to be Lucas) lost some of its smoke and stopped. While I was trying to plug that smoke leak with a screwdriver it sprung another bigger leak and lost a LOT MORE SMOKE and hasn't worked since.

No shop I've been to can sell me any "Telefunken Smoke" that I can put back inside. They all tell me that I need to buy parts with the smoke already sealed in, which cost a heap more than a bottle of smoke. Sort of like a sealed beam headlight."

THE DLARC FORUM

A few years ago the Executive Committee established an electronic mailing list for D.L.A.R.C. Members and friends to provide an easy way to disseminate information on a timely basis. This mailing list is called the "DLARCforum" and all club members with email capability are welcome to join.

Joining the list is easy, just go to this website :<http://mailman.qth.net/mailman/listinfo/dlarcforum> for the subscription process are available on the page. If you don't have internet service, but do have email service you can still subscribe by sending a subscription request directly to the list administrator, ka3jwe@arrl.net.

The DLARCforum is a "closed" list which means only subscribers can post messages, so your mailbox won't be filled with junk mail from unknown sources. The list uses a "text only" format which means, that only messages in plain text are passed. Messages received in HTML are filtered and stripped of any formatting before being sent out to list subscribers. The list will not accept or pass attachments such as files and pictures. This is done to eliminate the possibility of spreading any type of computer virus or other harmful programs. The forum is an "un-moderated" list, which means that there is no moderator screening messages before they are passed on.

Since its beginning, the volume of messages on the DLARCforum has been relatively low compared to other similar mailing lists. So don't worry your your inbox won't be overflowing with messages if you subscribe. There is also the ability to configure your preferences for the list to your personal liking.

So, please consider joining the list if you're not already subscribed. You'll be better informed about current club activities and also have the knowledge and experience of over half the membership at your disposal. Anything you want to know, all you have to do is ask!

de Don / KA3JWE List administrator

F.Y.I.

The April Program will be "History of the Radio Corp of America" - Bob / AB3RC

The D.L.A.R.C. meets the "FIRST" Thursday of each month. Membership, friends and interested persons meet at the Bethlehem Township Community Center, 2900 Farmersville Road, Bethlehem, Pa. 18020) at 7:30 PM. Committee reports and announcements of all present and future activities will be presented at that time. Followed by that month's program.

ARES, RACES AND DLARC NET

All Radio Amateurs are welcome to participate in the ARES, RACES and DLARC net. This net meets Wednesday at 1900 hours local time, on the W3OK Repeater 51.76, 146.70 and 444.90 (pl 151.4). With an alternate frequency of 147.370 (DCS 315) W3OI Repeater.

QCWA Chapter 17 holds a net Monday evenings at 8:30 PM on 3960 +/- depending on conditions. Other inputs are the 146.85 repeater, (151.4 PL) and Echolink at K2PM-R.

Mid-Atlantic D-Star Net meets each Tuesday at 7:30 PM. The following repeaters Dstar repeaters are available in the Lehigh Valley. W3OK -145.11000MHz -0.600 Port C – W3OI -147.16500MHz +0.600 Port C, – W3OI - 445.02500MHz -5.000 Port B All repeaters on the net are linked through **Reflector 020 port A**, so all stations checking into the net should make sure that they have *their local repeater call sign followed by the letter "G" in the eight position of the RPT2 field*. Otherwise, you will only be heard locally and not over the Reflector. Dongle users wishing to check into the net should Log On by connecting directly to Reflector 20, port A, rather than through your local repeater in order to conserve local bandwidth.

The OK Corral is an organization publication for the purpose of informing members of the D.L.A.R.C. of educational and training opportunities, club events, relevant news articles and a monthly calendar of daily activities, meetings and dates.

The Clubhouse telephone number is 484-895-7038.

EXECUTIVE COMMITTEE 2015 – 2016 OFFICERS

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PHONE NUMBERS FOR THE EXECUTIVE COMMITTEE OF THE DLARC CAN BE FOUND ON THE WEBSITE / MEMBERSHIP LISTING CLUB MEETINGS

All regular meetings of the D.L.A.R.C. Are held on the first Thursday of each month at 7:30 PM at the Bethlehem Township Community Center
TALK IN ON 146.700 (PL 151.4)

THE W3OK TRUSTEE --- Barry Vogt / N3NVA

The W3OK Corral is published monthly and is the Official Publication of the DELAWARE LEHIGH AMATEUR RADIO CLUB INC.

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