

Amateur Radio Education, Testing and Training

Montgomery Amateur Radio Club
Rockville, Maryland

David Bern, W2LNX
education@marcclub.org

agenda

- marketing
- education
- testing
 - Laurel VEC
- training and mentoring
 - Elmer Lending Library
 - mentoring young hams
- conclusions

 every image is a [clickable link](#)

marketing

- cards, flyers and AMATEUR RADIO hat
- community Web sites and newspapers
- public workshops
- public demonstrations
 - Rockville Science Day at Montgomery College
 - Field Day amateur radio open house
 - local parks
- public service events
 - Marine Corps Marathon

marketing

EDUCATION@MARCCLUB.ORG

MONTGOMERY AMATEUR RADIO CLUB

WWW.MARCCLUB.ORG

DAVID BERN, W2LNX

EDUCATION COMMITTEE

MONTGOMERY COUNTY
MARYLAND

What is Ham Radio?

- A man in Dallas receives a data transmission from an orbiting satellite. He forwards the data to a university in Norway, to help the students with a science project.
- During a Colorado wildfire, communications assistance from volunteer Amateur Radio operators helps save lives and property.
- A woman in Connecticut uses a pocket-sized handheld radio when she's out of cell phone range to talk to her friends in North Carolina.

This unique mix of fun, public service, and experimentation is the distinguishing characteristic of Amateur Radio, also called "ham" radio.

ARRL The National Association for AMATEUR RADIO



Amateur Radio... *Serving Your Community*

Events such as marathons and bike-a-thons, fund-raisers such as walk-a-thons, celebrations such as parades, and exhibits at fairs, malls and museums — these are all large, preplanned, non-emergency activities.

Amateur Radio people (also called "hams") are well known for our communications support in disaster and post-disaster situations. But did you know we also provide communication services to the public during special events?

How Amateur Radio Works With Event Sponsors and Public Safety Officials

We're called "amateurs" because we are not paid. Our services are provided at no charge. Like amateur sports, we do it for the love of it! We may be called "amateurs," but our communications services are professional.

Amateurs and their equipment can interface with both public safety efforts and event organizers.

Our equipment can be made operational quickly inside a building, in a mobile command post or out in field units.

Hams are trained, organized volunteers willing to meet the communications needs of the event sponsor.

Police and fire radios are for tactical or operational traffic in emergencies. Amateur Radio offers administrative radio communications options for use in your overall management and coordination of the event.

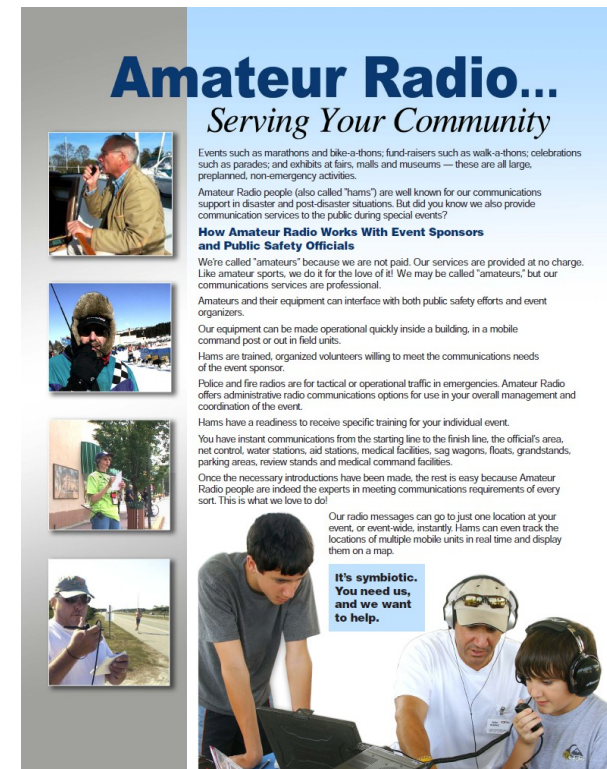
Hams have a readiness to receive specific training for your individual event.

You have instant communications from the starting line to the finish line, the official's area, net control, water stations, aid stations, medical facilities, sag wagons, floats, grandstands, parking areas, review stands and medical command facilities.

Once the necessary introductions have been made, the rest is easy because Amateur Radio people are indeed the experts in meeting communications requirements of every sort. This is what we love to do!

Our radio messages can go to just one location at your event, or event-wide, instantly! Hams can even track the locations of multiple mobile units in real time and display them on a map.

It's symbiotic. You need us, and we want to help.



advertising



Washington Post announcement

basic soldering workshop

Event Registration - Mozilla Firefox

Event Registration x +

host.evanced.info/montgomerycou Search

MC PL Montgomery County PUBLIC LIBRARIES

Event Registration

[Back](#)

Basic Soldering Workshop, Part 1 of 3

Email a friend Notify me Print Download to calendar Digg Delicious

[Like 0](#)

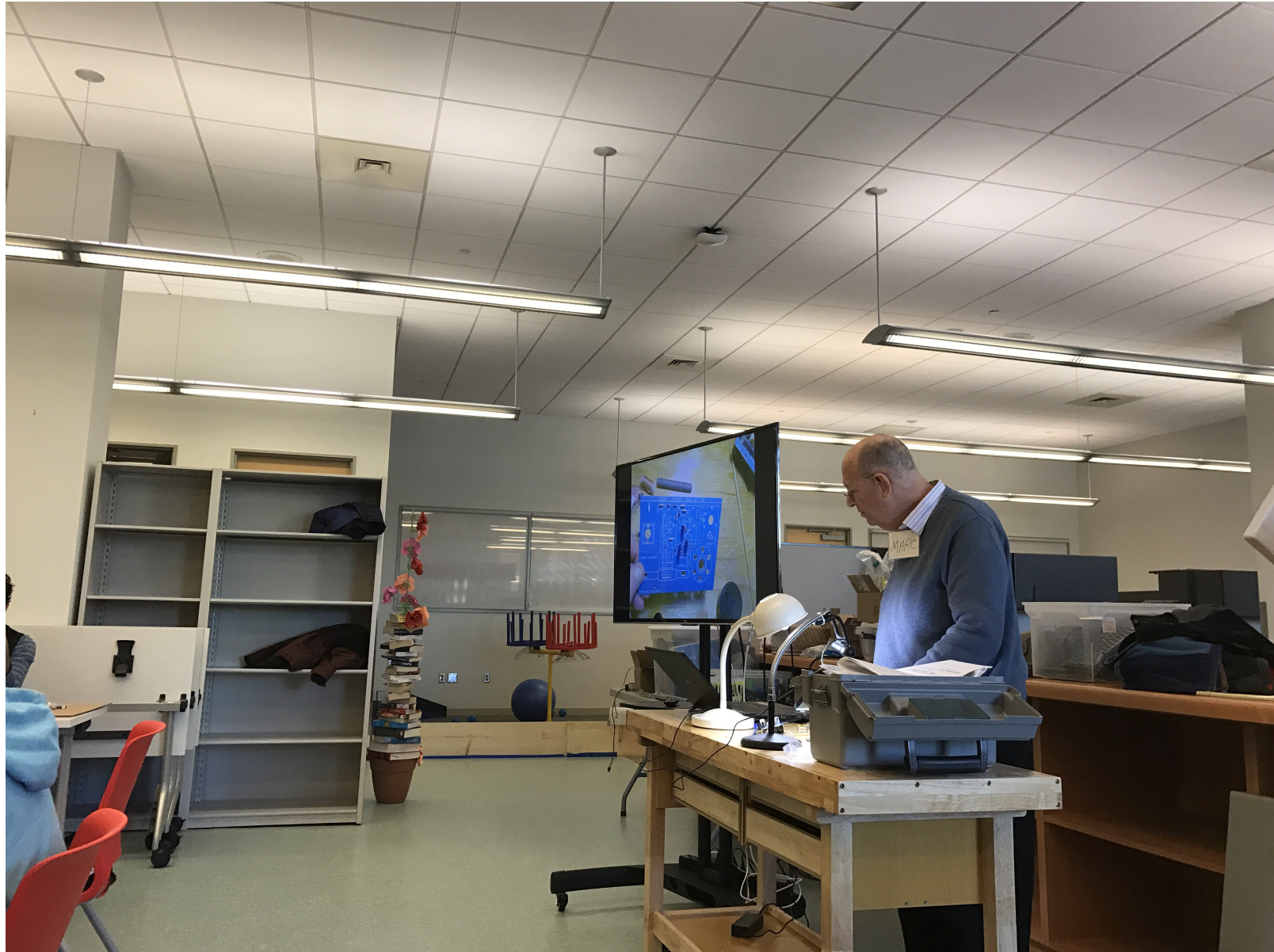
Event Type: Makerspace
Age Group(s): Adult, Teens
Date: 1/8/2017
Start Time: 1:00 PM
End Time: 3:00 PM
Description: For teens and adults, a basic intro to electronic soldering tools and methods taught by volunteers at Studio i in the Rockville Memorial Library. This is the first of a series of 3 workshops that meet on January 8, January 15 and January 22 (with a makeup snow day of Jan 29 if needed). Participants will create a simple take home project. Registration required. Registrants must attend all three workshops. Presented by Rockville Science Center.
Library: Rockville Memorial [Map](#)
Registration Ends: 1/7/2017 at 11:50 PM
Status: Waiting List

basic soldering workshop



participants watching Marc, N4DR

basic soldering workshop



Marc, N4DR showing construction of Elenco AM-780K

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finding a class

The screenshot shows a Mozilla Firefox browser window with the URL www.arrl.org/find-an-amateur-radio-license-class. The page title is "Find an Amateur Radio License Class in Your Area - Mozilla Firefox".


Find an Amateur Radio License Class

Find an Amateur Radio License Class

- License Classes Online
- Find an Amateur Radio License Exam Session
- Getting Your Technician License
- Upgrading to a General License
- Upgrading to an Extra License
- What to Bring to an Exam Session
- Exam Practice
- Question Pools
- Withdrawn Questions
- Exam Element Credit
- Resources for the Disabled

Finding a Class

ARRL can help you find an Amateur Radio license preparation class in your community. You can search our database for upcoming classes near you.



As an alternative to classes listed in our geographic database that are offered in various locations throughout the US, [click here](#) to look for classes for license preparation offered online.

ARRL Instructors: [List a License Class](#)

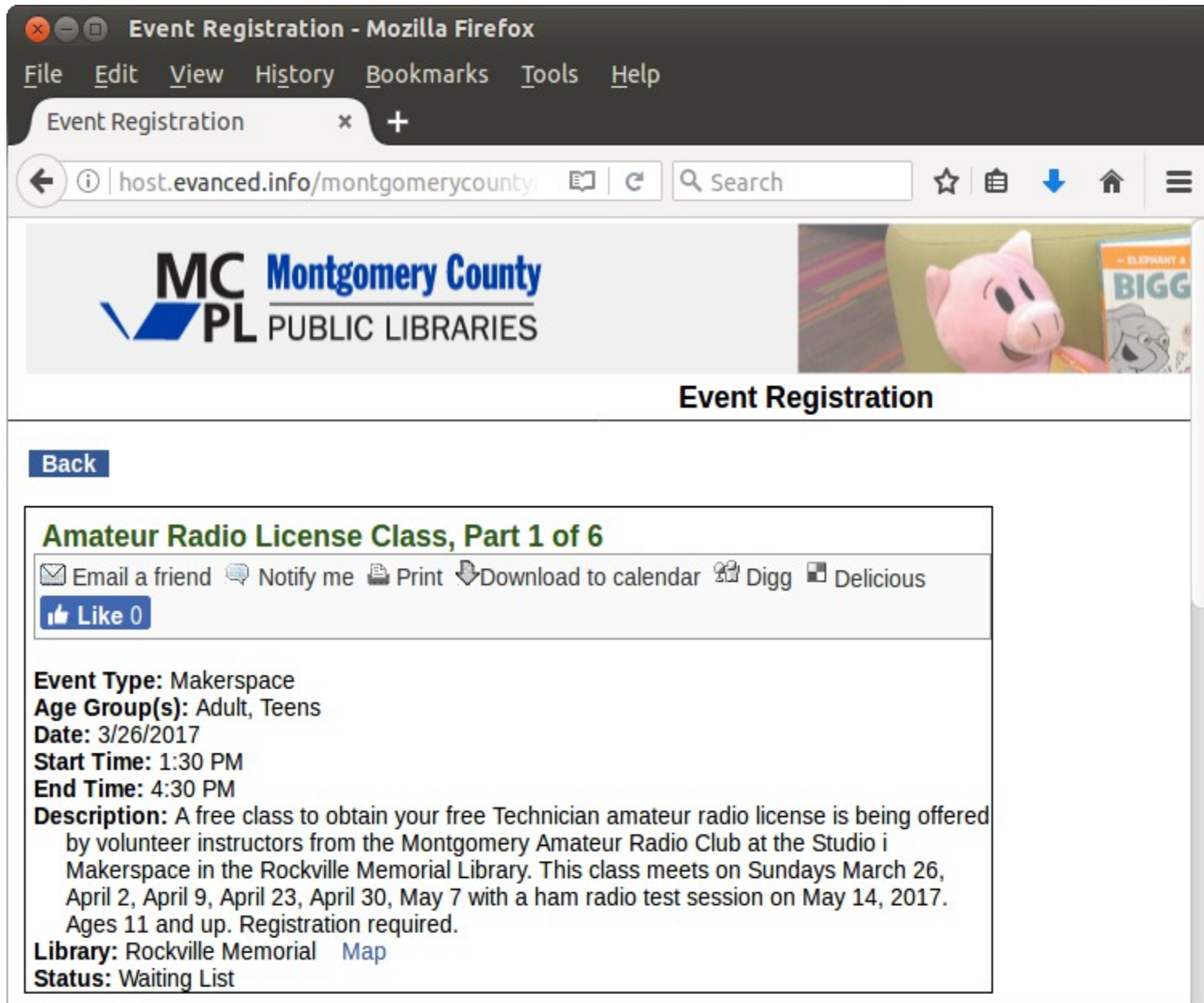
Find an Amateur Radio License Class in Your Area

If you do not see a course in your area please keep checking this page. New courses are added daily.

Search by:

- ▶ **Keyword:**
- ▶ **ZIP Code:**
- ▶ **City:**
- ▶ **State/Territory:**
- ▶ **ARRL**

finding a class



Event Registration - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Event Registration x +

host.evanced.info/montgomerycounty Search

MC PL Montgomery County PUBLIC LIBRARIES

Event Registration

[Back](#)

Amateur Radio License Class, Part 1 of 6

Email a friend Notify me Print Download to calendar Digg Delicious

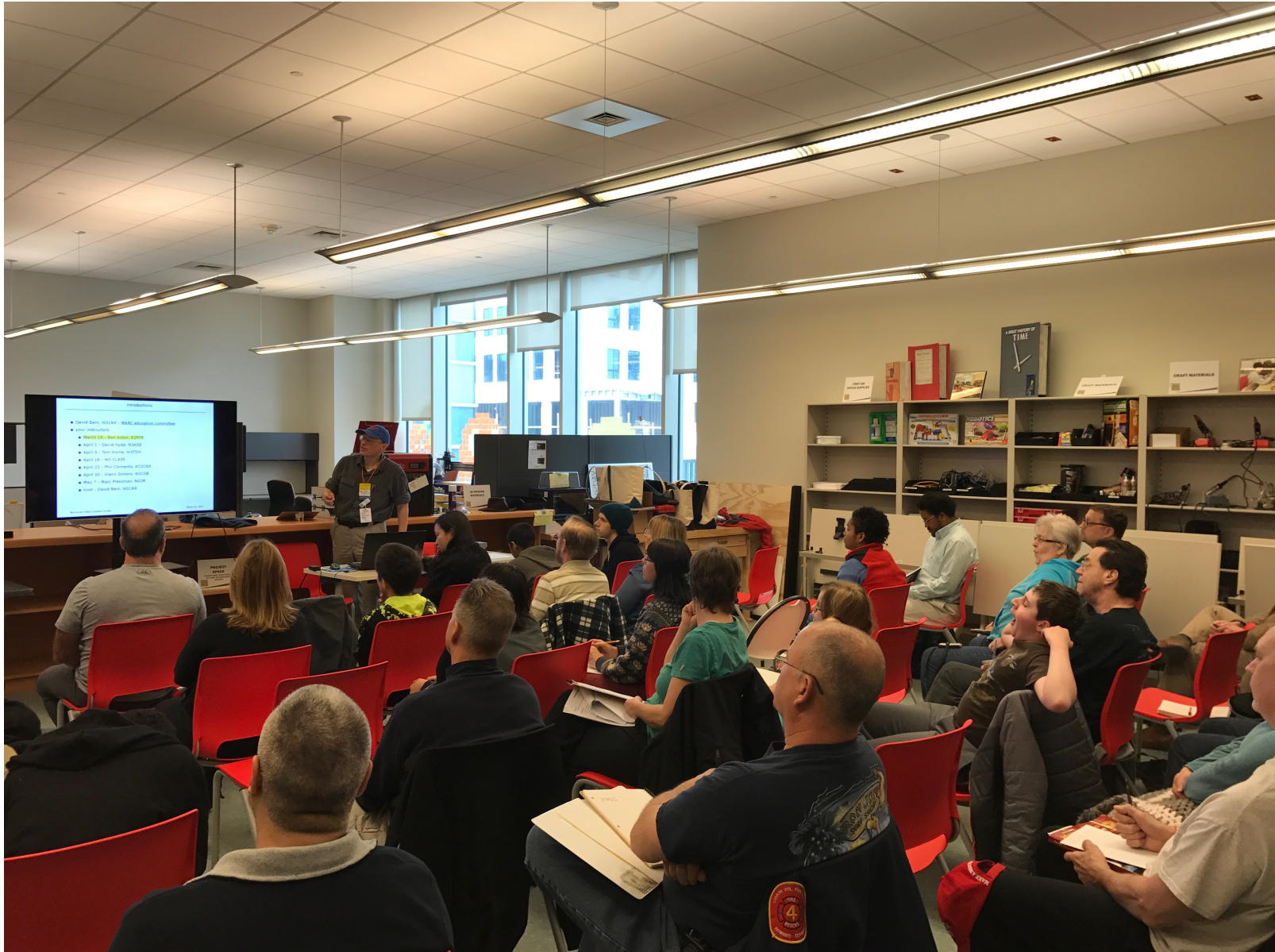
Like 0

Event Type: Makerspace
Age Group(s): Adult, Teens
Date: 3/26/2017
Start Time: 1:30 PM
End Time: 4:30 PM
Description: A free class to obtain your free Technician amateur radio license is being offered by volunteer instructors from the Montgomery Amateur Radio Club at the Studio i Makerspace in the Rockville Memorial Library. This class meets on Sundays March 26, April 2, April 9, April 23, April 30, May 7 with a ham radio test session on May 14, 2017. Ages 11 and up. Registration required.
Library: Rockville Memorial [Map](#)
Status: Waiting List

Technician license class

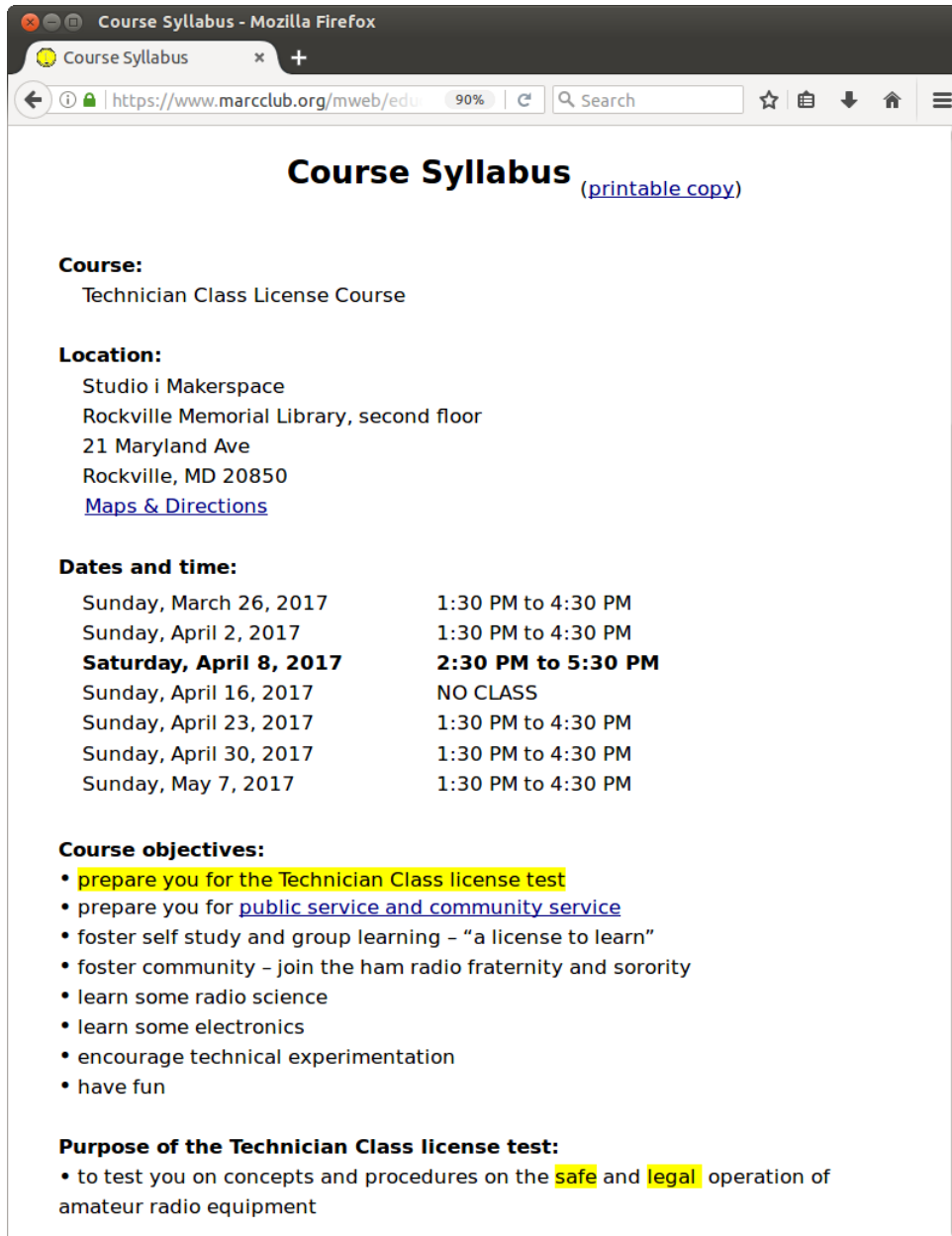
- 6 day free class, free test session and free license
 - different instructor from instructor team
- use ARRL presentation visuals
- conducted 6 Technician classes since 2014
 - 196 students
 - 65 students earned Technician license
- public service events – lab part of the class
- accessible to middle school students

Technician class



David, W2LNX presenting in Technician class

Technician class



The image is a screenshot of a web browser window titled "Course Syllabus - Mozilla Firefox". The address bar shows the URL "https://www.marclub.org/mweb/edu/". The page content is titled "Course Syllabus" with a link to a "printable copy".

Course:
Technician Class License Course

Location:
Studio i Makerspace
Rockville Memorial Library, second floor
21 Maryland Ave
Rockville, MD 20850
[Maps & Directions](#)

Dates and time:

Sunday, March 26, 2017	1:30 PM to 4:30 PM
Sunday, April 2, 2017	1:30 PM to 4:30 PM
Saturday, April 8, 2017	2:30 PM to 5:30 PM
Sunday, April 16, 2017	NO CLASS
Sunday, April 23, 2017	1:30 PM to 4:30 PM
Sunday, April 30, 2017	1:30 PM to 4:30 PM
Sunday, May 7, 2017	1:30 PM to 4:30 PM

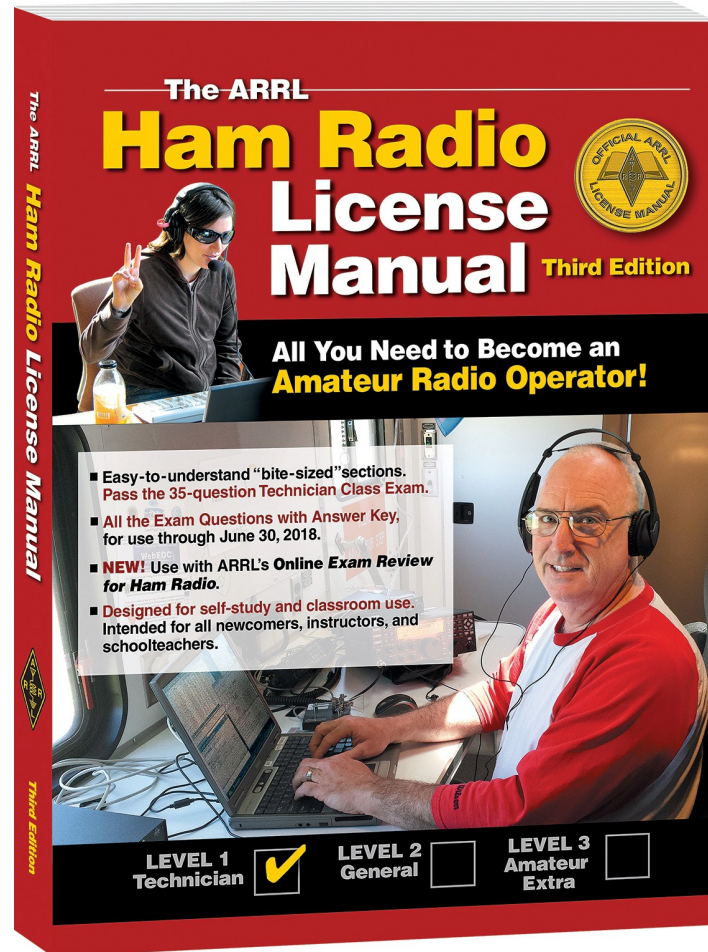
Course objectives:

- prepare you for the Technician Class license test
- prepare you for [public service and community service](#)
- foster self study and group learning – “a license to learn”
- foster community – join the ham radio fraternity and sorority
- learn some radio science
- learn some electronics
- encourage technical experimentation
- have fun

Purpose of the Technician Class license test:

- to test you on concepts and procedures on the **safe** and **legal** operation of amateur radio equipment

Technician class book



- preparation for the Technician test
- teaches radio theory and science
- catalog of ham radio activities

Technician class planning timeline

- beginning of the year
 - [] schedule dates and request makerspace room at RML
 - [] update MARC Web page and notify ARRL
 - [] add test dates to ARRL Web site
 - [] advertise on community Web sites and local newspapers
 - [] request event scheduled on the MCPL calendar Web site
 - [] invite six instructors from instructor team
 - [] start accepting student applications
- month before first class session
 - [] remind instructors of the course schedule
 - [] update course syllabus with instructor names
 - [] order ARRL license manuals

Technician class planning timeline

- week before before first class session
 - [] get roster from RML librarian
 - [] send welcome email to students on class roster
- week before before each class session
 - [] update class agenda
 - [] remind instructor of class session
 - [] prepare class demonstration
 - [] get ham biography from instructor for introduction
 - [] remind students of the class session
- day before each class session
 - [] inform students of the class session agenda
 - [] remind instructor of class session
- day of class session
 - [] arrive early to set up tables and chairs in room
 - [] set up laptop computer with large HDTV display monitor
 - [] introduce instructor

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finding a ham radio test

The screenshot shows a Mozilla Firefox browser window with the URL www.arrl.org/find-an-amateur-radio-license-exam-session. The page title is "Find an Amateur Radio License Exam Session".

Find an Amateur Radio License Exam Session

Find an Amateur Radio License Class

Find an Amateur Radio License Exam Session

Getting Your Technician License

Upgrading to a General License

Upgrading to an Extra License

What to Bring to an Exam Session

Exam Practice

Question Pools


Withdrawn Questions

Exam Element Credit

Resources for the Disabled

Find an Amateur Radio License Exam in Your Area

OPTIMIZE YOUR SEARCH: Less information entered in the search fields will return more information in the list. The more specific the search criteria, the less information returned. Zip Code searches can use the mileage range in the drop-down menu.



NOTE: If no listings are shown for the area you are interested in, please check back as we update this page daily. You may also use the [club locator page](#) to find clubs that conduct exam sessions as part of their offered services.

VE Teams: [Register your Exam Session](#)

Search for Exam Sessions

In the US you can search by ZIP code.

Search by:

▶ **Keyword:**

▶ **ZIP Code:**


▶ **City:**

▶ **State/Territory:**

▶ **ARRL**

finding a ham radio test

Laurel VEC - Mozilla Firefox
Laurel VEC
https://www.laurelvec.com/?pg=exams 120% Search

 **The Laurel VEC**
Administering FREE Amateur Radio License Exams since 1984

Home
Exam Schedule
VE Teams
About the Laurel VEC
FAQ
Did You Know?
Amateur Radio Links
Officers, Contacts
Team Leader Resources
Login

Exam Schedule

Click on the VE Team links to get more information including the test location, point of contact, phone number, and e-mail address.

January 2017				February 2017			
Date	Time	VE Team	Location	Date	Time	VE Team	Location
2	5:30pm	LARC-FL	Lakeland, FL	4	9:00am	LWRA	Winter Haven, FL
3	5:00pm	SVET	Seattle, WA	4	2:00pm	BVET	Catonsville, MD
5	7:00pm	MCARCOH	London, OH	6	5:30pm	LARC-FL	Lakeland, FL
7	9:00am	LWRA	Winter Haven, FL	8	7:30pm	SJRA	West Berlin, NJ
7	9:00am	NOMADS	MESA, Az	9	5:00pm	WVUARC	Morgantown, WV
7	2:00pm	BVET	Catonsville, MD	9	6:00pm	MARC-OH	Milford, OH
8	10:00am	PWARC	Royal Palm Beach, FL	9	6:00pm	TCARC	IUKA, MS
9	7:00pm	RST	Tucson, AZ	9	6:30pm	FMARC	Ft Myers, FL
10	7:00pm	LARK	Howell, MI	9	7:00pm	THRC	Terre Haute, IN
11	6:30pm	SIARC	Canandaigua, NY	10	6:00pm	WARC	Wichita, KS
11	7:30pm	CCARET	Springville, NY	10	7:00pm	LARC-MI	Grand Rapids, Mi

finding a ham radio test

VE Public Exam Session Details - Mozilla Firefox

VE Public Exam Session

https://www.marclub.org/mweb/education/exam

Volunteer Examiner Public Exam Sessions

► **Sunday, March 12, 2017: 1:30 PM to 4:30 PM**

location: Studio i Makerspace
Rockville Memorial Library, second floor
21 Maryland Ave
Rockville, MD 20850
[Maps & Directions](#)

registration: **pre-registration preferred** - walk-ins accepted
registration starts at 1:30 PM
testing starts at 1:45 PM
[what to bring to an exam session](#)

fee: **free (zero, nada, nil)**

contact: David Bern, W2LNX
education@marclub.org **email preferred**
240-242-5660 leave a message or send a text message

VEC: [Laurel VEC](#)

sponsor: [Montgomery Amateur Radio Club](#) and [Rockville Science Center](#)

► **Sunday, May 14, 2017: 1:30 PM to 4:30 PM**

location: Studio i Makerspace
Rockville Memorial Library, second floor
21 Maryland Ave
Rockville, MD 20850
[Maps & Directions](#)

registration: **pre-registration preferred** - walk-ins accepted
registration starts at 1:30 PM
testing starts at 1:45 PM
[what to bring to an exam session](#)

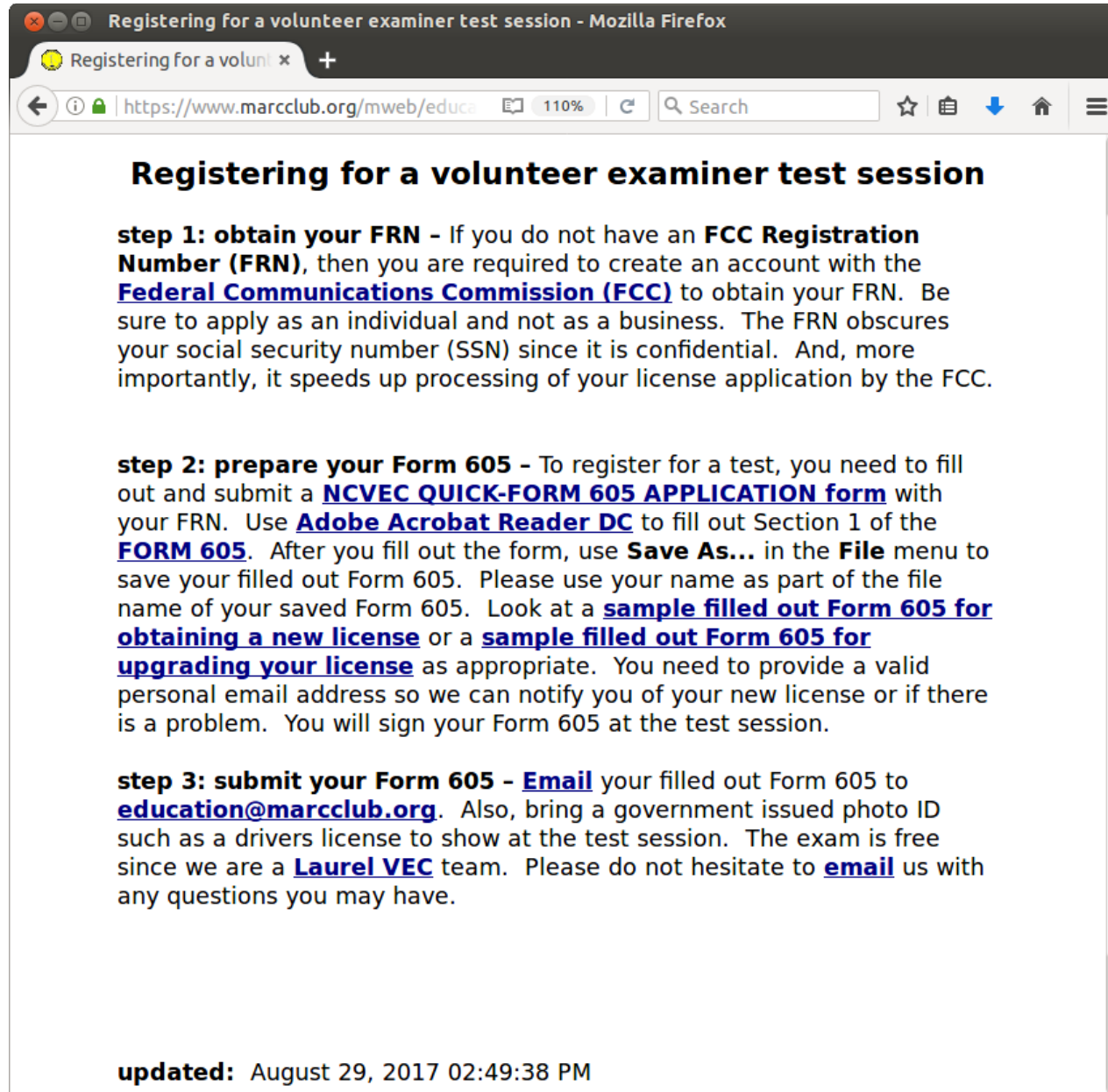
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240-242-5660 leave a message or send a text message

VEC: [Laurel VEC](#)

sponsor: [Montgomery Amateur Radio Club](#) and [Rockville Science Center](#)

registering for a ham radio test



The screenshot shows a Mozilla Firefox browser window with the title "Registering for a volunteer examiner test session - Mozilla Firefox". The address bar displays "https://www.marcclub.org/mweb/educa". The page content is as follows:

Registering for a volunteer examiner test session

step 1: obtain your FRN - If you do not have an **FCC Registration Number (FRN)**, then you are required to create an account with the **Federal Communications Commission (FCC)** to obtain your FRN. Be sure to apply as an individual and not as a business. The FRN obscures your social security number (SSN) since it is confidential. And, more importantly, it speeds up processing of your license application by the FCC.

step 2: prepare your Form 605 - To register for a test, you need to fill out and submit a **NCVEC QUICK-FORM 605 APPLICATION form** with your FRN. Use **Adobe Acrobat Reader DC** to fill out Section 1 of the **FORM 605**. After you fill out the form, use **Save As...** in the **File** menu to save your filled out Form 605. Please use your name as part of the file name of your saved Form 605. Look at a **sample filled out Form 605 for obtaining a new license** or a **sample filled out Form 605 for upgrading your license** as appropriate. You need to provide a valid personal email address so we can notify you of your new license or if there is a problem. You will sign your Form 605 at the test session.

step 3: submit your Form 605 - **Email** your filled out Form 605 to **education@marcclub.org**. Also, bring a government issued photo ID such as a drivers license to show at the test session. The exam is free since we are a **Laurel VEC** team. Please do not hesitate to **email** us with any questions you may have.

updated: August 29, 2017 02:49:38 PM

registering for a ham radio test

NCVEC Form 605.pdf - Adobe Reader
File Edit View Document Tools Window Help

NCVEC Form 60... x

1 / 2 105% Find

Please fill out the following form. You cannot save data typed into this form.
Please print your completed form if you would like a copy for your records.

**NCVEC QUICK-FORM 605 APPLICATION
AMATEUR OPERATOR/PRIMARY STATION LICENSE**

SECTION 1 - TO BE COMPLETED BY APPLICANT

PRINT LAST NAME	SUFFIX (Jr., Sr.)	FIRST NAME	M.I.	STATION CALL SIGN (IF ANY)
MAILING ADDRESS (Number and Street or P.O. Box)				FEDERAL REGISTRATION NUMBER (FRN) - IF NONE, THEN SOCIAL SECURITY NUMBER (SSN)
CITY	STATE CODE	ZIP CODE (5 or 9 Numbers)	DAYTIME TELEPHONE NUMBER (Include Area Code)	
E-MAIL ADDRESS (MANDATORY)				

Basic Qualification Question:
Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court? YES NO
If "YES", see "FCC BASIC QUALIFICATION QUESTION INSTRUCTIONS AND PROCEDURES" on the back of this form.

I HEREBY APPLY FOR (Make an X in the appropriate box(es)):

<input type="checkbox"/> EXAMINATION for a new license grant	<input type="checkbox"/> CHANGE my mailing address to above address
<input type="checkbox"/> EXAMINATION for upgrade of my license class	<input type="checkbox"/> CHANGE my station call sign systematically
<input type="checkbox"/> CHANGE my name on my license to my new name	Applicant's Initials: To Confirm _____
Former Name: _____ (Last name) (Suffix) (First name) (MI)	<input type="checkbox"/> RENEWAL of my license grant
	Exp. Date: _____

Do you have another license application on file with the FCC which has not been acted upon?	PURPOSE OF OTHER APPLICATION	PENDING FILE NUMBER (FOR VEC USE ONLY)
---	------------------------------	--

certify that:

- I waive any claim to the use of any particular frequency regardless of prior use by license or otherwise;
- All statements and attachments are true, complete and correct to the best of my knowledge and belief and are made in good faith;
- I am not a representative of a foreign government;
- I am not subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862;
- The construction of my station will NOT be an action which is likely to have a significant environmental effect (See 47 CFR Sections 1.1301-1.1319 and Section 97.13(a));
- I have read and WILL COMPLY with Section 97.13(c) of the Commission's Rules regarding RADIOFREQUENCY (RF) RADIATION SAFETY and the amateur service section of OST/OET Bulletin Number 65.

Signature of Applicant:
X _____ Date Signed: _____

SECTION 2 - TO BE COMPLETED BY ALL ADMINISTERING VEs

Applicant is qualified for operator license class: _____ DATE OF EXAMINATION SESSION _____

Laurel Volunteer Examiner Coordinator

- all volunteers
- administering free amateur radio license exams since 1984
 - member of the [National Conference of Volunteer Examiner Coordinators](#) (NCVEC)
- Chairman of Laurel VEC – Diane Zimmerman, AA30F
 - reports to the FCC
- 10 Area Coordinators
 - 167 Laurel VE teams in 34 states
- in 2016, Laurel VE teams administered 6,942 exams to 5,216 applicants

Laurel Volunteer Examiner Coordinator

- test generator Web site
- SessionManager test session software
- VE team manager Web sites
 - support documents and forms
- online upload of test session to FCC database
- Google group – announcements and discussions
- email and telephone

MARC-MD1 Laurel VE team

- 30 MARC volunteer examiner team
 - 80/20 rule
- David, W2LNX – VE team leader
 - reports to Area 3 Coordinator – Bob Rose, AA3RR
- Dave, W3DKL – deputy VE team leader
- 6 volunteer examiners – 3 proctors, 3 test graders
- administered 16 test sessions for 288 applicants since 2014
- provide calculators, pens, pencils, erasers and scrap paper
- recruit new volunteer examiners from applicants that pass Extra Class test

SessionManager applicant page

SessionManager -- Version 6.0.11 -- Team Leader Edition

File Tools Help

September 17, 2017 -- Rockville, MD **Ready for Upload** **27-Aug-2017**

Session Applications FCC Upload Display FCC Results

Add New

Cntrl Nr
1

Application Information

Cntrl Nr Last Name Suffix First Name MI SSN FRN Felony
1 Sample Samuel MD - - - 0022675888 No

Street Address PO Box Call Sign
123 Sample St

City State Zip Code E-Mail
Sample MD 34567-8901

Daytime Phone Attention
(301) 555-0123

Notes Delete Application Form 605 Signed

Element 2 Element 3 Results/Credits Element 4 Results/Credits

Pass Fails 0 CSC Expired General
CSC Fails 0 Pre-1987 Tech Expired Advanced

Pass Fails 0 CSC Expired Extra

Administering VEs Application Results Print Forms

KA3IXO (E) KB3ZUK (E) NY7P (E) **New Technician** 605 CSCE Both

team leader enters applicant data from submitted Form 605

test session equipment



filled in Form 605 and two CSCEs are printed at test session

generated Form 605

LARC-VEC FORM 605 AMATEUR RADIO APPLICATION

1

SECTION 1 - TO BE COMPLETED BY APPLICANT

PRINT LAST NAME Applicant	SUFFIX (Jr., Sr.)	FIRST NAME Ham	INITIAL R	STATION CALL SIGN (IF ANY)
MAILING ADDRESS (Number and Street or P.O. Box) 123 Applicant St			FCC REGISTRATION NUMBER (FRN) If no FRN, then SOCIAL SECURITY NUMBER (SSN) 0022675888	
CITY Applicant	STATE CODE MD	ZIP CODE (5 or 9 Numbers) 345678901	TELEPHONE NUMBER (Include Area Code) OPTIONAL (301)555-0123	
E-MAIL ADDRESS (OPTIONAL)				

Have you ever been convicted of a felony in any state or federal court? No Yes
 If you answer "Yes", then you will have to submit an explanation to the FCC before they will process your application. (See provided instruction sheet.)
 You **MUST** answer this question if you are applying for a new license, applying to upgrade your existing license, or requesting a call sign change.
 You **DO NOT** have to answer this question if all you are doing is renewing your license or changing your name or mailing address.

I HEREBY APPLY FOR (Make an X in the appropriate box(es))

<input checked="" type="checkbox"/> EXAMINATION for a new license grant	<input type="checkbox"/> RENEWAL of my license grant.
<input type="checkbox"/> EXAMINATION for upgrade of my license class	<input type="checkbox"/> CHANGE my mailing address to above address
<input type="checkbox"/> CHANGE my station call sign systematically	<input type="checkbox"/> CHANGE my name on my license to my new name

Applicant's Initials: _____ Former Name: _____

Do you have another license application on file with the FCC which has not been acted upon?	PURPOSE OF OTHER APPLICATION	PENDING FILE NUMBER (FOR VEC USE ONLY)
---	------------------------------	--

I certify that:

- I waive any claim to the use of any particular frequency regardless of prior use by license or otherwise;
- All statements and attachments are true, complete and correct to the best of my knowledge and belief and are made in good faith;
- I am not a representative of a foreign government;
- I am not subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862;
- The construction of my station will NOT be an action which is likely to have a significant environmental effect. (See 47 CFR Sections 1.1301-1.1319 and Section 97.13(a)).
- I have read and WILL COMPLY with Section 97.13(c) of the Commission's Rules regarding RADIOFREQUENCY (RF) RADIATION SAFETY and the amateur service section of OST/OET Bulletin Number 65.

Signature of applicant (Do not print, type, or stamp. Must match applicant's name above.)
X _____ Date Signed: **17-Sep-2017**

SECTION 2 - TO BE COMPLETED BY ALL ADMINISTERING VEs

Applicant is qualified for operator license class:

<input type="checkbox"/> NO NEW LICENSE OR UPGRADE WAS EARNED	
<input checked="" type="checkbox"/> TECHNICIAN	Element 2
<input type="checkbox"/> GENERAL	Elements 2 and 3
<input type="checkbox"/> AMATEUR EXTRA	Elements 2, 3 and 4

DATE OF EXAMINATION SESSION September 17, 2017
EXAMINATION SESSION LOCATION Rockville, MD
VEC ORGANIZATION Laurel VEC
VEC RECEIPT DATE

I CERTIFY THAT I HAVE COMPLIED WITH THE ADMINISTERING VE REQUIREMENTS IN PART 97 OF THE COMMISSION'S RULES AND WITH THE INSTRUCTIONS PROVIDED BY THE COORDINATING VEC AND THE FCC.

1st VE NAME (Print First, MI, Last, Suffix)	CALL SIGN	SIGNATURE (Must match name)	DATE SIGNED
2nd VE NAME (Print First, MI, Last, Suffix)	CALL SIGN	SIGNATURE (Must match name)	DATE SIGNED
3rd VE NAME (Print First, MI, Last, Suffix)	CALL SIGN	SIGNATURE (Must match name)	DATE SIGNED

DO NOT SEND THIS FORM TO FCC - THIS IS NOT AN FCC FORM. LARC-VEC Form 605 - August 2017
 IF THIS FORM IS SENT TO FCC, FCC WILL RETURN IT TO YOU WITHOUT ACTION. FOR VEC USE ONLY
 BR000000170917A-1

applicant and volunteer examiners sign filled in Form 605

generated CSCE

CERTIFICATE OF SUCCESSFUL COMPLETION OF EXAMINATION	
Laurel Amateur Radio Club Volunteer Examiner Coordinator Laurel Amateur Radio Club, Inc., P.O. Box 0146, Laurel, Maryland 20725-0146	
Date: <u>Sep 17, 2017</u> VE Team Name: <u>MARC-MD1</u> Test site: <u>Rockville, MD</u>	
The Applicant Named Below Has Passed The Indicated Elements:	The Applicant Is Eligible To Receive The Indicated Class License:
Technician 2	Technician
##### #### #### #####	##### #### #### #####
<p>This certificate is not valid unless all elements other than the ones earned are crossed out. This certificate is valid for 365 days from the date of issue. Please retain this certificate for your records.</p> <p>Listing of the license grant on the FCC Universal Licensing System (ULS) establishes you as an amateur operator and conveys your authority to operate. If you hold a valid FCC-issued Amateur Radio License, this certificate allows you to operate with all privileges of your new operator class until your license has been granted by the FCC or for a period of 365 days from the date of issue of this certificate, whichever comes first.</p>	
Applicant Information	Volunteer Examiner Signatures and Call Signs
Name <u>Ham R Applicant</u>	#1 _____ Signature _____ Call Sign _____
Call Sign <u>***** NONE *****</u>	#2 _____ Signature _____ Call Sign _____
Address <u>123 Applicant St</u>	#3 _____ Signature _____ Call Sign _____
City, State, Zip <u>Applicant, MD 345678901</u>	
Applicant's Signature _____	
<small>Effective April 1, 2007 Previous Versions Obsolete</small>	<small>BR000000170917A-1</small>

applicant and volunteer examiners sign filled in CSCE

test session results

- VE team leader uses SessionManager to encrypt test session file
- encrypted test session file is emailed to Bob, AA3RR
- Bob uploads test session file to the FCC database
- FCC database returns a results file
- Bob replies to team leader with FCC results file
- team leader notifies test applicants of their callsigns
 - typical turnaround time is one business day

test session planning timeline

- beginning of year
 - [] add test dates to Laurel VEC Web site
 - [] add test dates to ARRL Web site
 - [] invite volunteer examiners to volunteer for the year
- month before
 - [] ask for more volunteer examiners
 - [] remind volunteer examiners of test session
 - [] start accepting submitted Form 605s from applicants
- week before
 - [] remind volunteer examiners of test session
 - [] remind applicants of test session
- day before
 - [] remind volunteer examiners of test session
 - [] remind applicants of test session
 - [] enter applicant information into SessionManager

test session planning timeline

- day of test session

- update SessionManager with latest software version

- update SessionManager with latest FCC amateur radio information

- arrive early to set up tables and chairs in room

- enter walk-in applicant information into SessionManager

- day after

- email test session file to area coordinator

- mail paperwork by Priority Mail to area coordinator

- week after

- wait for results from area coordinator

- notify applicants of their callsigns

- thank volunteer examiners

agenda

- marketing
- education
- testing
 - Laurel VEC
- training and mentoring
 - Elmer Lending Library
 - mentoring young hams
- conclusions

Elmer Lending Library



TS-430S



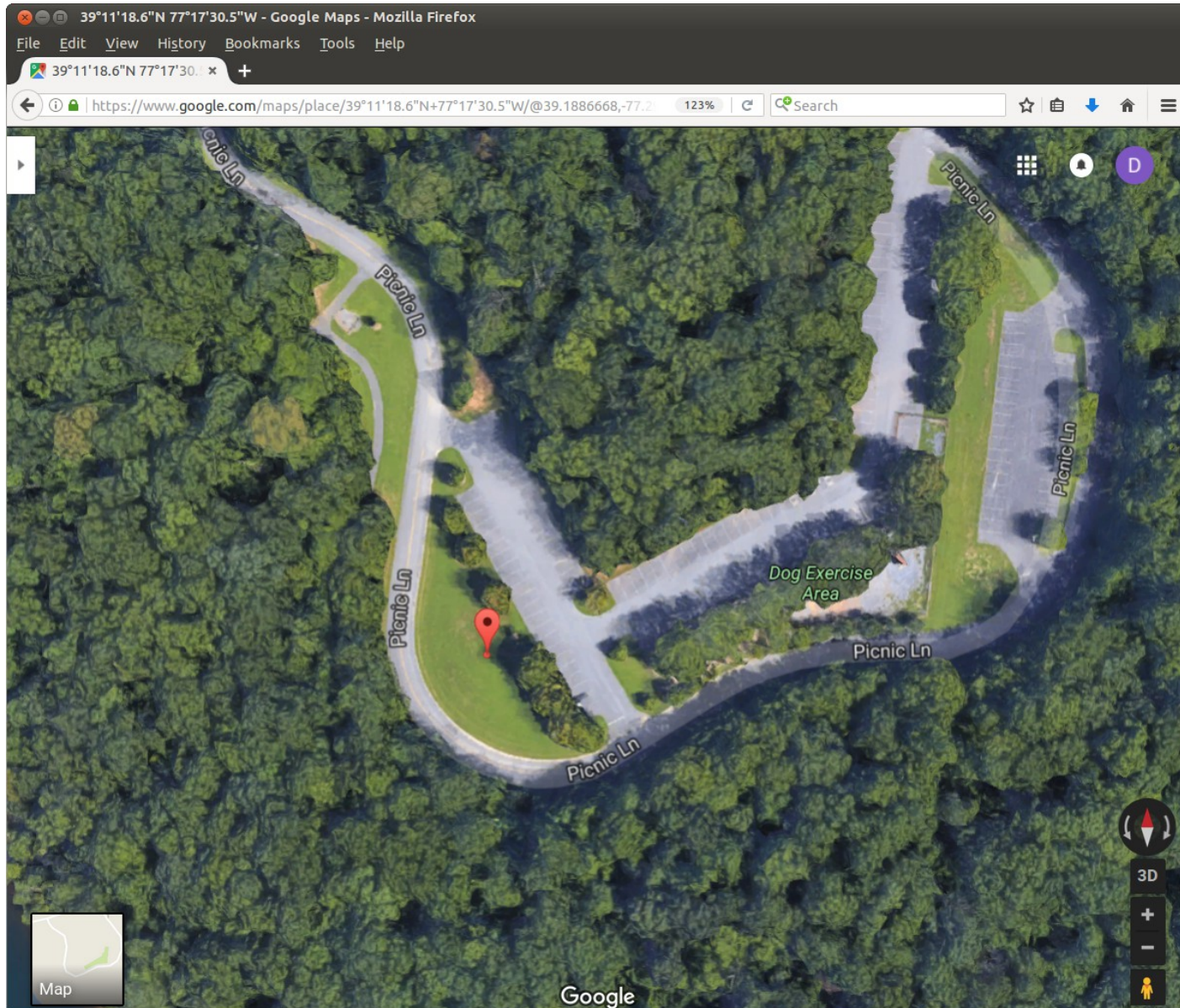
IC-718

mentoring new hams



Jamison, K3SNR and Charlie, KC3HTB at MM 15 of the Marine Corps Marathon

mentoring new hams



Black Hill Region Park, Boyds, MD


mentoring new hams




Sugarloaf Mountain, Dickerson, MD

mentoring young hams

\$19.95




Getting Started with **HAM RADIO**




A Guide to your **FIRST Amateur Radio Station**

Select Radios and Antennas




Explore Operating Modes:
Voice, Morse Code, Digital
and More!

Assemble Your Station



*Get on the
air Now!*



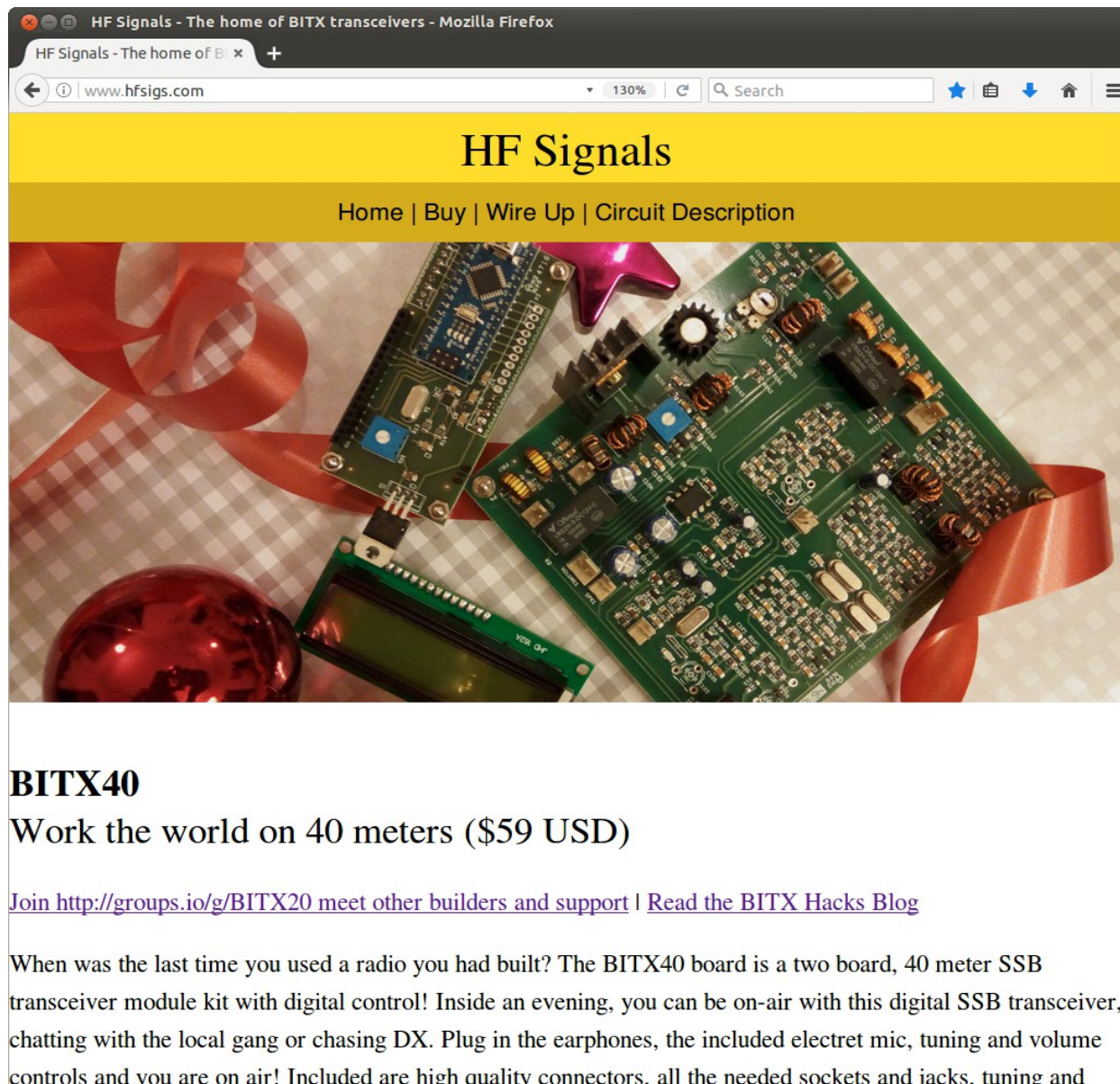
Published by:
ARRL
The national association for
AMATEUR RADIO

mentoring young hams



inexpensive USB software defined receiver dongle

mentoring young hams

A screenshot of a web browser displaying the HF Signals website. The browser's address bar shows "www.hfsigs.com" and the page title is "HF Signals - The home of BITX transceivers - Mozilla Firefox". The website has a yellow header with the text "HF Signals" and a navigation menu with links for "Home | Buy | Wire Up | Circuit Description". Below the header is a photograph of a green printed circuit board (PCB) for a BITX40 transceiver, surrounded by red ribbons and a red Christmas ball. The text below the image describes the BITX40 kit, its price, and provides a link to a group on groups.io and a blog.

BITX40
Work the world on 40 meters (\$59 USD)

[Join http://groups.io/g/BITX20 meet other builders and support](http://groups.io/g/BITX20) | [Read the BITX Hacks Blog](#)

When was the last time you used a radio you had built? The BITX40 board is a two board, 40 meter SSB transceiver module kit with digital control! Inside an evening, you can be on-air with this digital SSB transceiver, chatting with the local gang or chasing DX. Plug in the earphones, the included electret mic, tuning and volume controls and you are on air! Included are high quality connectors, all the needed sockets and jacks, tuning and

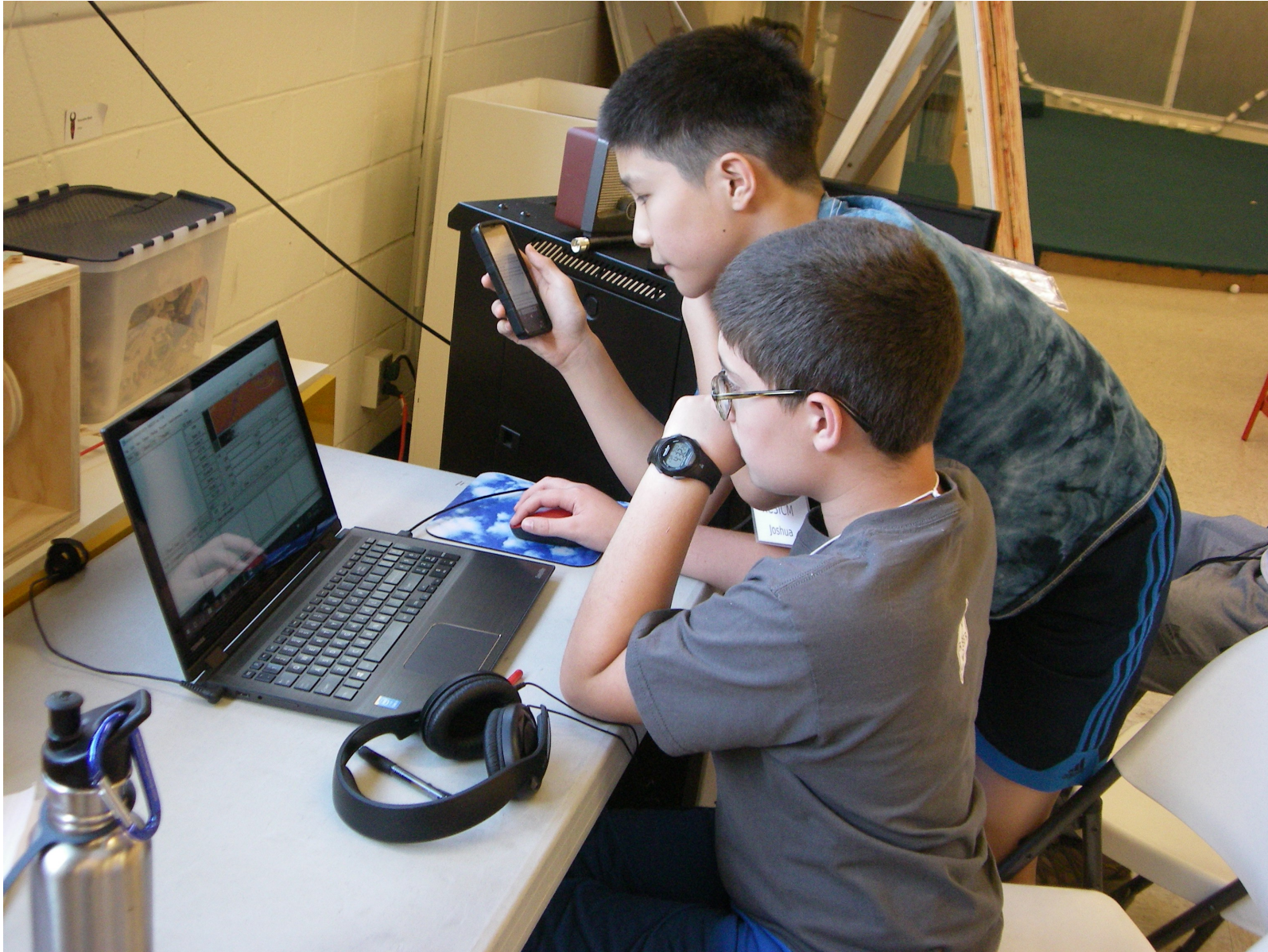
inexpensive 40 m low-power transceiver semi-kit

KID Museum ham station



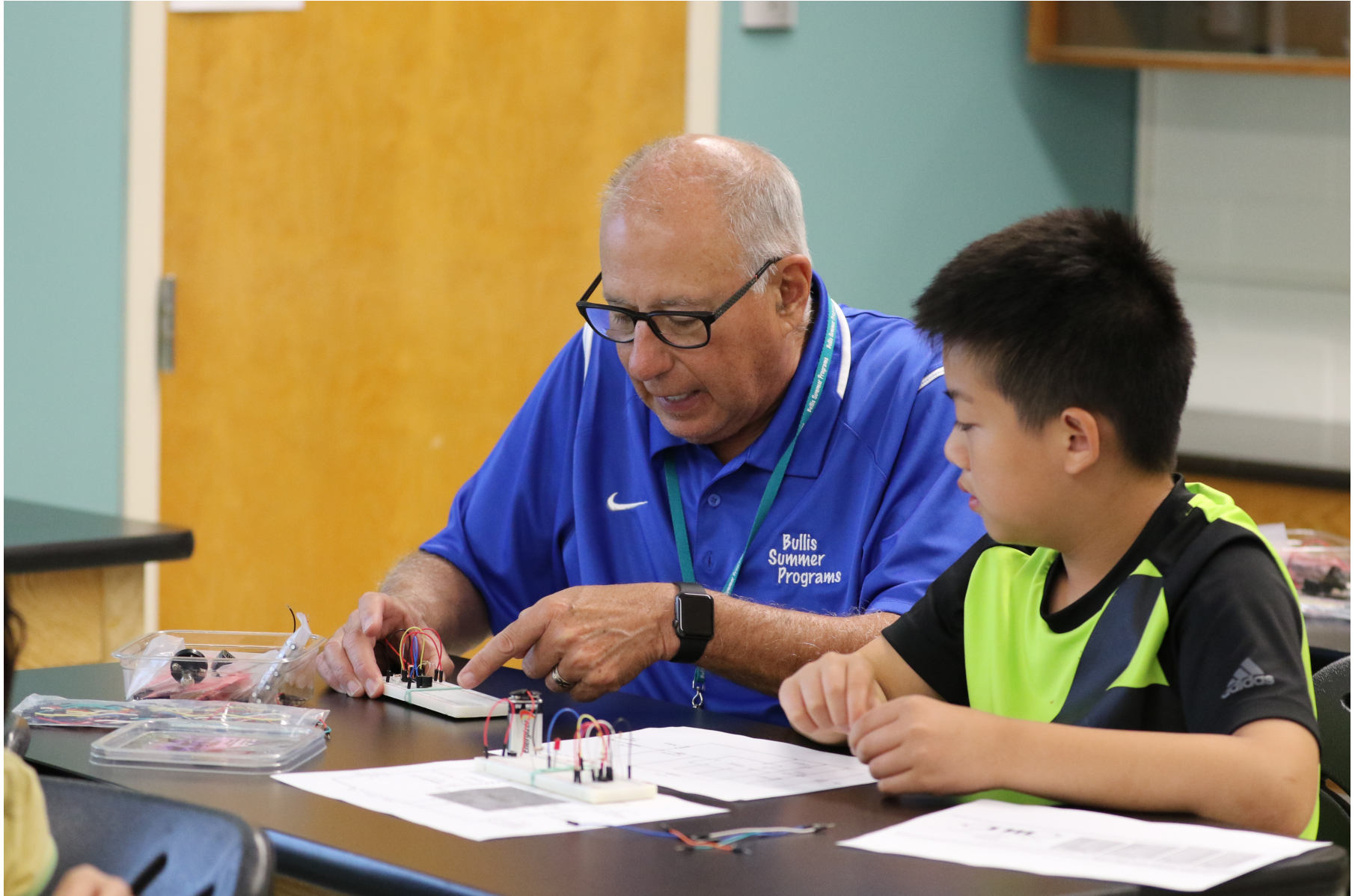
David, W2LNX is showing Joshua, KC3ICM how to use the Ten-Tec Omni V

KID Museum ham station



Jack, KC3JML and Joshua, KC3ICM operating digital modes

Bullis School Summer Program



Richard, WN3R instructing a camper in the Electronics Workshop camp

a success story



Aaron Solomon, KB3MLM

UMD Biological Sciences Senior Named 2017 Marshall Scholar

another success story



Valerie Lehmann, KC3HPJ
The ARRL Foundation General Fund Scholarship

building a education and testing team

- take ownership – make it happen
- you will get volunteers if you announce an event with who, what, when, where and for how long
- accept organizer volunteers – delegate responsibility and authority but follow up
- thank your volunteers – give credit where credit is due
- organizing events and activities takes twice as long as you think it would
- it's a numbers game – you need to do this a lot
- follow up inquiries and email within 24 hours
- invite and educate parents of children

thank you

- Richard, WN3R – mentor and builder of public ham radio stations
- MARC instructor team
- MARC volunteer examiner team
- Bob Rose, AA3RR – Laurel VEC Area 3 Coordinator
- Ray Andrews, K9DUR – SessionManager developer
- Cory Johnson, NQ1E – VE Manager Web site developer
- Scott Zimmerman, N3XCC, Jon Rick, KK6NLW and Cory Johnson, NQ1E – Laurel VEC Web sites managers
- Bob Ekman – Rockville Science Center
- Rockville Memorial Library

conclusions

- this important work for the amateur radio community
- this is a way of sharing and giving back

In Memoriam



Prof. Uchechukwu "Uche" Abanulo, KC3ARX
1981 – 2016

Questions



education@marcclub.org

