

Volume 15 | NUMBER 4 | NOV 2022 / JAN 2023 | ENGLISH
Newsletter Editor: Luis A. Tatis

The IEEE MOVE truck is deployed to respond to hardest hit disaster areas that frequently have no power or communications. MOVE can quickly set up temporary operations and provide the power and communications required to initiate services to the people affected by the disaster. MOVE is staffed by a network of hundreds of IEEE volunteers who cross train with the Red Cross to provide technology and services at disasters. IEEE volunteers designed, maintain, and operate the truck. When not at disasters, IEEE MOVE provides public outreach and STEM education at schools, universities, public events and IEEE events. The large truck draws interest to IEEE from over 50,000 people annually. For additional information, visit move.ieeeusa.org.



MOVE News by Loretta Arellano

2022 was an exciting year for us. With our second truck available, we were able to support five natural disasters and 18 outreach/STEM events. We successfully transitioned MOVE-1 to San Diego but it had to be used to support Hurricane Ian in November. MOVE-1 has been transitioned again back to San Diego. The article detailing this adventure is highlighted in this issue.

We are preparing for 2023 on all fronts. MOVE-2 is being upgraded with donated equipment from Cisco, which will make us operate more effectively. See Graysons' article, where he is looking for volunteers related to this effort.

We will continue with our monthly Tech Talks and we have some exciting speakers lined up already. An Operations training class is also scheduled, and our annual Townhall is scheduled for March 17. We will discuss the activities in 2022 and the plans forward. Please join us!! Stay in touch by making sure you are on our distribution for meeting announcements. Sign up at <https://bit.ly/MOVE-SIGNUP>

We will be once again at the Atlanta Science Festival in March. See details in Melody's article.

MOVE is supported by donations and with a second truck, your donations are needed more than ever. Please consider a donation today to assist your fellow IEEE Volunteers as they respond to those in need. Visit <http://bit.ly/DONATION-MOVE>. A sincere thank you to all who donated in 2022, especially during the 'Giving Tuesday' campaign. We were successful in getting over 30 donors during that period, and also receiving an additional \$500 from IEEE.

A special section is included on MOVE Puerto Rico and India as both are doing excellent work.

MOVE-2 Upgrades

MOVE-2 Getting Some Needed Upgrades

By Grayson Randall

When we received the MOVE-2 truck donation in July 2021, we quickly made the necessary upgrades to make it deployable to disasters. It was immediately put into service for hurricane Ida in Louisiana. Subsequently, MOVE-2 was deployed to Kentucky for the Mayfield tornado, Kentucky floods, and Hurricane Ian in Florida. While the truck was certainly functional and was actively used, there are many upgrades that we want to make to improve its usability.

We have received a grant from Cisco System with all new Meraki networking equipment. We have been so busy we have not installed it in the truck yet. In addition to the networking equipment, we also want to install some cameras, additional electronics in the cabin, improved layout of the engineering console, as well as new storage.

Our hurricane season goes from June to November, and we use January through June for upgrades and most of our outreach. We will be working hard over the next few months to make MOVE-2 upgrades so we can be more effective when deployed.

If anyone is interested in hands-on maintenance and upgrades of the MOVE trucks, please contact Grayson Randall at g.randall@ieee.org



MOVE-1

MOVE-1 Travels West to Go Back to its Home Base

By Jay Diepenbrock

On January 10, Jay Diepenbrock and Grayson Randall boarded MOVE-1 in Durham, NC, to drive it back to its home base in California (CA). (It had been in Florida with MOVE-2 to respond to Hurricane Ian in October.) Moving it back to California had been planned, but the schedule was moved up anticipating a potential deployment to the floods in CA. They made good time, and stopped for the first night outside Nashville, TN. The weather was good, and they kept in touch with the MOVE support team by way of Digital Mobile Radio (DMR).

They left Nashville the next morning, and after a long day of driving through Tennessee and Arkansas they stopped in Oklahoma City for the night.

Driving the next day through Oklahoma and Texas, the landscape changed from forests to plains; Oklahoma was surprisingly hilly. They passed a number of large windmill farms in Texas, and continued on to New Mexico, stopping for the night in Albuquerque. They awoke the next morning to 17 degrees F., a bit chilly for the desert. Albuquerque is at about 5,000 feet elevation (comparable to Denver), so the cold is not too surprising.

The next objective after Albuquerque was Barstow, CA. During the day they passed through Arizona and saw two unusual sights: forest fires in the hills, and snow on the ground (in the desert!). They completed another long day of driving, arriving at the end of Interstate 40 in Barstow. The original plan was to take the truck to San Jose, to be in a central location for potential deployment since the flooding was in both the Northern and Southern parts of the state. However, the likelihood of being deployed was deemed to be low, so the decision was made to take the truck back to its home base in San Diego instead. They spent the night in Barstow, and on Saturday (day 5) they made the short three hour trip to San Diego. There they met Bill Torre and Dennis Peck from the MOVE West team. They discussed several topics, then followed the meeting with a good dinner. Jay flew home to Raleigh, NC on Sunday, while Grayson stayed another day for more discussions and a final decision on the possible deployment.

The trip went very well, and no problems were encountered with the truck.



Expansion of MOVE efforts

Expansion of MOVE Efforts to Northwestern United States.

By Mark Torres

The IEEE-USA MOVE program continues to expand disaster relief assistance across the USA. The IEEE MOVE-1 truck supports the Red Cross evacuation shelters and other non-profit partners following major disasters, like the one impacting California recently. IEEE MOVE volunteers assist by providing power, internet, and phone coverage at the shelters, resource centers and distribution centers. MOVE volunteers also provide support to the Red Cross for computers and other technology supporting disaster relief efforts. The MOVE-1 truck is currently based in San Diego.

We would like to expand our volunteer base to address flooding and loss of power due to massive storms as those seen in January 2023. Therefore, we are seeking to increase the MOVE volunteer base in the area.

How can you become a MOVE Volunteer? Sign up today at the following link:

MOVE Volunteer Interest Form >> <https://bit.ly/MOVE-SIGNUP>

If you want to deploy with MOVE and the Red Cross to disaster deployments, you must have the following:

- Red Cross volunteer ID
- Red Cross DST training for DST GAP certification
- IEEE MOVE Operations training

Obtain the Red Cross volunteer ID by becoming a Red Cross volunteer

(visit <https://www.redcross.org/volunteer/become-a-volunteer.html>).

Volunteers who want to participate on non-disaster STEM deployments are only required to take the IEEE MOVE Operations class. This will allow you to deploy on non-disaster deployments, such as STEM or Public visibility events. These classes are held periodically and notice of them will be posted on our social media channels and sent to individuals who have expressed interest via the [MOVE volunteer interest form](#).

A 3-part virtual Operations Class will be conducted on **Feb 28, Mar 7 and Mar 14**. Sign up at

Part 1: 28 Feb 2023 from 8:00-10:00 PM ET

<https://events.vtools.ieee.org/m/346383>

Part 2: 07 Mar 2023 from 8:00-10:00 PM ET

<https://events.vtools.ieee.org/m/346385>

Part 3: 14 Mar 2023 from 8:00-10:00 PM ET

<https://events.vtools.ieee.org/m/346390>



Volunteering

MOVE Volunteers Continues to Grow

By Mark Torres

As we begin 2023, the number of MOVE volunteers continues to grow. With that in mind, my primary objective for 2023 will be to strengthen the engagement opportunities with our MOVE volunteers. My goal is to have every volunteer plugged into at least one activity that they can become excited about. We need passionate MOVE volunteers that carry out IEEE's Mission "IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity."

To achieve this, I need your help. My number one need is to grow the number of members on the MOVE Volunteer & Public Engagement Committee (VPEC). Note the committee's expanded role of public engagement. What does that mean? In 2022, the focus of the committee was inward on member engagement. This year, we will also focus outward with a tight linkage to the MOVE STEM committee. If you are interested in joining the VPEC please contact Mark Torres at MGTorres@ieee.org.

The MOVE VPEC coordinates activities to recruit and engage volunteers. In addition to maintaining the Volunteer Roster, the team: 1) Welcomes new MOVE volunteers, 2) Coordinates onboarding and retention of MOVE volunteers, 3) Supports other MOVE teams with volunteer engagement activities, and 4) Supports MOVE activities at event and conferences.

The committee will also be working closely with the MOVE Training and Development Committee to expand the training offerings. The monthly MOVE Tech Talk Series will continue in 2023. The January and February programs are already arranged, and Tech Talks will be announced this year for several months out to provide advanced information on upcoming topics. The MOVE Operations Class will be offered this spring before the storm season opens in June. Also, a new training series is in development. This will include more in-depth courses on Networking, Power, Amateur Radio, etc. If you are interested in helping with course development, please let David Sewell or me know.

Several events have already been scheduled for February, MOVE 1 will be at the R6 OpCom in Burlingame on Feb 4th. MOVE 2 will be at the Science Museum of Virginia in Richmond on Feb 19th and the Virginia Commonwealth University on Feb 20th. MOVE 2 has also been asked to participate in the North Carolina Emergency Management AHIMT Academy on Feb 19 – 23. Before returning to the west coast, MOVE 1 participated in two events. On Nov. 8, 2022, MOVE 1 was at the Johns Hopkins University Applied Physics Laboratory for the IEEE Advances in Public Safety Technology Workshop. Then on Dec 3 - 6, 2022, MOVE 1 was at the IEEE Standards Association Governance meeting in Piscataway NJ.

All volunteers are urged to provide MOVE volunteer roster updates on your current situation, location or email address, by emailing Mark Torres or by submitting updates on the Volunteer Interest Form >> <https://bit.ly/MOVE-SIGNUP>

Mark Torres

IEEE-USA MOVE Volunteer & Public Engagement Chair (2022 & 2023)

MOVE SUPPORT TEAMS

IEEE MOVE Maintenance Team

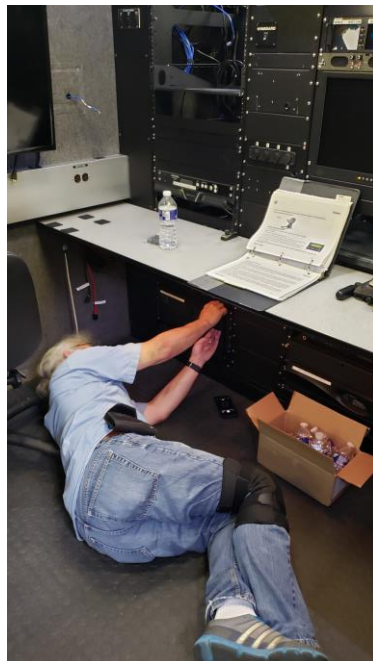
By David C. Wright

The Maintenance Team is busy supporting the MOVE trucks. The team holds regular monthly meetings with the MOVE drivers to discuss any issues and concerns with those operating the trucks.

The Maintenance Team has the responsibility to make sure the trucks are ready for deployment. This includes having all equipment fully operational, including truck systems, generator systems, communications systems and the other truck mounted systems. Working with the networking and radio teams, we help maintain or update equipment as needed.

In October, the MOVE trucks were deployed to Florida after hurricane Ian. The Maintenance Team was communicating with the deployed teams and assisted in scheduling onsite generator oil changes and answering or researching questions or concerns as they arose.

The MOVE Maintenance Team is composed of members from a diverse talent background. We are always looking for assistance which can take many forms like researching equipment requirements, logging maintenance status, onsite work with the trucks, and a variety of other ways. Contact David C Wright (dcwright@ieee.org) if you would like more information.



MOVE SUPPORT TEAMS

The IEEE MOVE Radio Club

By Jay Diepenbrock

The MOVE team has created the IEEE MOVE Radio Club (IMRC), whose purpose is to provide opportunities for those interested in amateur (a. k. a. “ham”) radio, and to enhance and use their technical skills to support the MOVE trucks while they are deployed. The Club currently has 61 members, many of whom are also American Red Cross volunteers. The Club has been granted an amateur call sign W4MOV by the Federal Communications Commission (FCC), and meets on the third Wednesday evening each month. It’s been registered with the American Radio Relay League (the US national organization for amateur radio), but is not restricted to US members, nor to those holding amateur licenses. Meeting discussion topics have included: the radios currently installed on the MOVE trucks, Winlink (a radio-centric email system), Digital Mobile Radio (DMR), antennas, signal propagation, and the use of radio in support of disasters. The Club also develops proposals for new capabilities, such as radios and antennas to be purchased and installed on the trucks, and provides direction to the MOVE Radio Team, which procures, installs, maintains, and programs them as needed.

Activities sponsored by the Club include Winlink and DMR practice “nets”, during which members “check in” using their radios (or in some cases, their cell phones using software to emulate a radio), and gain experience using these technologies. Members of the Club have also assisted other members in configuring their radios, cell phones, and computers to use these techniques. Anyone with an interest in amateur radio is encouraged to join the Club, especially those who desire to support the MOVE trucks on their mission. Interested parties can find more information at <https://radioclub.moveteams.org/>. Andy Moorwood, from the MOVE West team has agreed to act as the Club’s Chairperson, and Dr. David Green is the Secretary and webmaster.



[Home](#) [Docs](#)

IEEE MOVE Radio Club

The radio club is open to interested radio enthusiasts who wish to develop radio skills and practices to support the IEEE MOVE Deployments.

Upcoming Meetings

IEEE MOVE Radio Club meetings are online and open to all.

[View or Register](#)

[Recent Meetings](#)

Collabratec Workspace

The Collabratec Workspace is limited to Radio Club members and requires a free account.

[Goto Workspace](#)

Interested, want to join?

If you wish to join us, please fill out this membership application.

[Join](#)

MOVE SUPPORT TEAMS

IEEE MOVE WEATHER TEAM

By Tim Forrest, CET

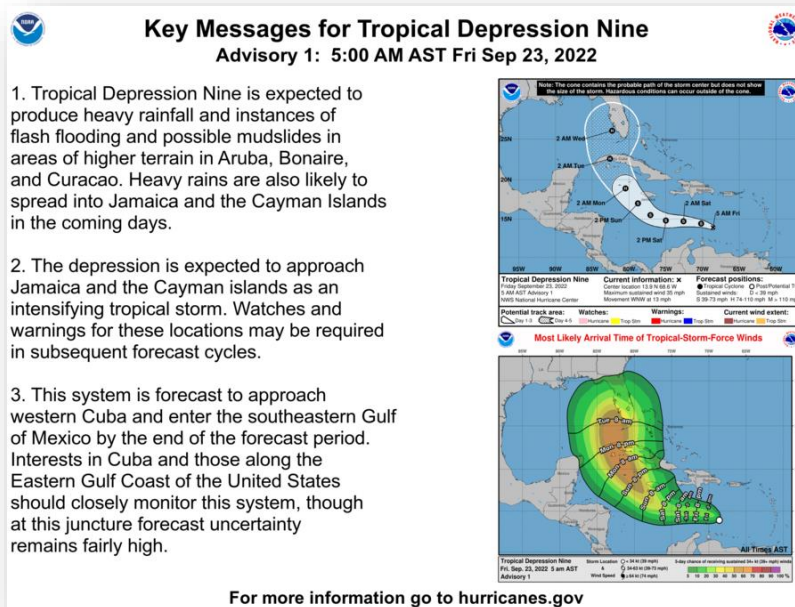
The MOVE Weather team has been in existence since May 14th, 2020.

During the hurricane season's many deployments, the Weather Team held regular meetings to develop its mission and procedures, while "under fire" with so many hurricane responses.

The team provided critical and mission safety weather information, to inform the IEEE MOVE leadership about weather disasters that may require the truck's deployment, and to safely route the truck on the roll to the disaster's areas of responsibility (AOR).

As part of our Hurricane Ian response, MOVE-1 & MOVE-2 performed truly herculean efforts to provide immediate response to those affected by the deadliest hurricane to strike the state of Florida since the 1935 Labor Day Hurricane.

The weather team tracked Hurricane Ian from its origination as a tropical wave that moved off the coast of western Africa and across the central tropical Atlantic, towards the Windward Islands. Below is a picture of tracking information from hurricane.gov, which helps keep the weather team and deployment informed.



During non-disaster times, the Weather Team keeps both trucks weather safe by routing them around severe thunderstorms or other turbulent weather while rolling, and by providing daily forecast synopses for each truck's location. The weather team communicates with the truck via DMR amateur radio and/or group texts.

Do you have an interest in the weather?

Do you want to be a National Weather Service SKYWARN trained Severe Storms Spotter?

You can volunteer to be part of the IEEE MOVE Team!

Join the IEEE MOVE Weather Team! We will invite you to the weather team's COLLABRATEC workspace.

MOVE SUPPORT TEAMS

MOVE Training and Development Update

By David Sewell, Training & Development Chair

The MOVE Training and Development Chair is working to expand the scope of the training offered to the MOVE team. The monthly Tech Talk trainings for the next two months are very interesting and have a mix of direct application to the task of driving the MOVE truck, as well as a scientific topic. To be more specific, in February we will have an employee of the National Weather Service talk about radar and a project to overcome coverage gaps mainly in Colorado. March will highlight two Missouri State Troopers, who will talk about Federal rules of the roads and will help drivers' awareness of their tasks on the truck and how to best respond to interactions with law enforcement officers. One of the troopers is an accident reconstructionist and he will talk about his area of expertise among other things. In April, we will have a presentation by two pilots who are getting ready to launch a flight around the world to raise awareness and funds to fight polio. We can look forward to learning about the plane systems – both conventional and custom features, intended to enable this flight to be successful. David Sewell is working to schedule other speakers for future months and the agreements with these prospective experts are currently in work. We have a wide audience that reads this newsletter so get on our distribution to find out details of these classes.

The subject of having expert speakers leads me to the vision for expanding the impact of the MOVE training program. To accomplish this goal, a vision for the Training and Development program is to include the leads (subject matter experts) of the operational areas of the MOVE program to develop a training program for their areas, which will fit together to transform the MOVE training program into a vital and necessary preparation for service in the MOVE program.

We will be having an Operations Training in the next couple of months before the Spring storm season starts, which is composed of three 2-hour virtual modules that give a comprehensive overview of the MOVE program. In addition, plans are beginning for another driver's training this year.

A 3-part virtual Operations Class will be conducted on **Feb 28, Mar 7 and Mar 14**. Sign up at

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<https://events.vtools.ieee.org/m/346383>

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<https://events.vtools.ieee.org/m/346390>

The training and development program works closely with Mark Torres and the Volunteer Engagement program. If you would like to help with course development or speaker recruitment, please let David Sewell know.

MOVE Volunteer Spotlight

By Loderay Bracero Marrero

Loderay recently celebrated her IEEE five years membership milestone. In 2018, she joined the IEEE and the Geoscience and Remote Sensing Society (GRSS). Soon she became active in the Puerto Rico and Caribbean Section. When she joined the IEEE, she was a doctorate candidate in the Environmental Sciences Program at the University of Puerto Rico, Rio Piedras campus. She successfully finished her Ph.D. in 2022 and plans to start her postdoc job. Her first IEEE event was the International Geoscience and the Remote Sensing Symposium (IGARSS) in Yokohama, Japan, in 2019.

Loderay's first official task in the IEEE was to help create a new chapter of IEEE *MOVE International* in Puerto Rico. With the support of IEEE-MOVE USA, this new group was successfully created with PR& Section Members. Loderay first focused on developing the relationship with the Red Cross (RC) Puerto Rico chapter. In February 2022, she became the MOVE Puerto Rico coordinator. Several activities have been conducted since, such as virtual talks and deployments. As a highlight, she led the first Red Cross deployment of the kits used during the recovery after Hurricane Fiona in September 2022.

Loderay has been deployed with RC twice in Puerto Rico as a disaster service technology associate (DST). Also, she has completed her career path and became a DST supervisor. Moreover, she is the Volunteer Connection Profile Lead in RC Puerto Rico Chapter. As part of this task, she guides and helps other volunteers to use the platform.

Loderay has benefited from the experience of other teams inside the IEEE MOVE USA, such as the radio amateur and weather team. Recently, Loderay has been organizing the antenna tests that will be conducted in Puerto Rico with MOVE USA. This task has involved coordinating with radio amateur colleagues and the university sites. She has completed the agenda and the materials acquisition for the activity.

Given her outstanding performance, she will represent MOVE International at the February 2023 IEEE Board meeting.

Lastly, Loderay has been enjoying supporting the development of the MOVE International program in Puerto Rico, and her work has been essential to the program.



At the Historic Red Cross facility
at Old San Juan Puerto Rico.



At a Red Cross store in Glasgow, Scotland.



Organizing the equipment and materials for the antenna tests.

STEM on the MOVE



Happy New Year from STEM on the MOVE!

By Melody Richardson

A new year brings new beginnings, new challenges, and of course, new year's resolutions. Whether you resolve to hit the gym at least three times a week, achieve a work/life balance, or clean out that closet – the new year always brings new possibilities.

We all have those things we want to work on, but what if we chose one of our resolutions to focus on the communities surrounding us? Is there something we could be doing to help students and teachers in our neighborhoods? Could volunteering be your New Year's Resolution? (Because let's face it, we weren't going to clean out that closet anyway....).

Volunteering is a perfect New Year's Resolution because volunteerism not only provides endless benefits for your community, but also has tremendous benefits for those who volunteer. Volunteering has been linked to increased self-confidence, better communication skills, and a boost in mental health. Think I am making this up? Google "Volunteering and Happiness" to see countless articles touting the benefits of being a volunteer.

I know what you are thinking. "Melody, this sounds great but I just don't have the [fill in the blank here]." There are so many reasons not to volunteer, including lack of time, lack of resources, lack of opportunities, but it is easier and more rewarding than you think. Perhaps you could spend one day a month assisting a local school with their STEM days. Or you could take 15 minutes once a month to write a letter to a future scientist or engineer. Or, if you are feeling really brave, you can volunteer for the "STEM on the MOVE" Team.

STEM on the MOVE is looking for volunteers to help with our upcoming projects and events as well as our STEM curriculum. It's a great way to make a difference. In the upcoming year, we will have many volunteer opportunities to appeal to various interests and skills. I'd love to have you join our team.

Sign Up Here <https://forms.gle/5kUmfXczq2sjNDTF8> to learn more about how you can get involved

Want your IEEE Society to support MOVE?

Possibilities include (depending on level)

- Sponsor a Joint STEM event
- MOVE truck at your conference
- Your Logo on MOVE web page
- Facebook post featuring your society
- Your Logo on the MOVE truck

The MOVE program is funded by donations to the IEEE Foundation "MOVE fund." Help today!

ieeefoundation.org/move

For more information, contact merandall@ieee.org



STEM on the MOVE

Upcoming Event: The Atlanta Science Festival's Exploration Expo
By Melody Richardson



The Atlanta Science Festival's Exploration Expo will take place on Saturday, March 25, 2023 from 10:00 a.m. to 4:00 p.m. at Piedmont Park. The Exploration Expo is the culminating event of the Atlanta Science Festival, an annual celebration of the world-class learning and STEM career opportunities in metro Atlanta for curious kids and adults at venues across the region. It's the festival's tenth anniversary and the Atlanta Section and Region 3 are sponsors of the Curious Kids Zone.

The Expo will feature over 75 hands-on interactive science booths and live science demonstrations from local organizations, universities, and companies. Attendees will be able to explore the science inside a bubble, see a Delta jet engine, and discover the MOVE truck program. Visitors to our mobile exhibit will learn about the Power of Wind while making their own anemometer, take a tour of MOVE2, and learn about all the engineers who made the MOVE trucks from the ground up.

The Expo is expected to draw a large, diverse audience of all ages, ethnicities, and backgrounds, from professionals to novices, from science enthusiasts to the merely curious. If you are near the Atlanta area on March 25, we would love for you to stop by and say hello!

EVENT DETAILS:

Date and Time: Saturday, March 25, 10:00 am to 4:00 pm

Venue: Piedmont Park, 1320 Monroe Dr NE, Atlanta, GA 30306

Note: Parking is extremely limited around the park, please utilize Marta to get to Piedmont Park.

Take the train to the Midtown stop and walk east on 10th till you hit the park.

Audience: Adults, Families, High School, Middle School, Elementary School, & Pre-School

Price: Free

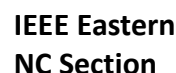
For more information: Richardson.Melody@gmail.com



Thanks to the 2022 MOVE USA volunteers

Albrecht Greg	Ehresmann John	Lee Tim	Schultz Alvin
Allen Rich	Evans Tenissia	Leonard Ted	Seraki Joseph
Apter Marc	Figueroa Christian	Li Dustin	Sewell David
Arellano Loretta	Forrest Tim	Lin Albert	Shadwell Butch
Arman Ira	Fuccella Dan	Lubkeman David	Sheier Eric
Baba Justin	Galuchi Karen	Luze Jason	Singh Alka
Balsam John	Gibson Kwasi	Mcbride Todd	Snyder David
Bellarmino Thomas	Godeau Aquiel	Merkel Daniel	Stephens David
Bracero Loderay	Goodson Paul	Mickiewicz Russ	Sundstrom(Sunny) David
Bradley Doug	Gordon Theo	Mojica Magdiel	Sutton Christopher
Briggs Danny	Gostin Jill	Moore Tc	Talley Steven
Brown Alan	Green David	Moorwood Andy	Tatis Luis
Brown Melinda	Greene Brian	Morales Paola	Teron Abigail
Brunasso Theresa	Guzek Bill	Nylund Blake	Tokuda Kathleen
Burke Audie	Harla Michael	Ourada Gerry	Torre Bill
Burns Walt	Harrison Russ	Page Brian	Torres Mark
Cardinale Michael	Haupt Bruce	Peck Dennis	Troske Tim
Carrero Francisco	Hayashi Kathy	Pentecost Eugene	Trumbo Bruce
Castillo Jenifer	Hill Don	Radford Rodney	Vargas Ray
Clemons Thomas	Hirt Evelyn	Ramos Lorena	Venkatraman Chitra
Conrad Jim	Hisey Ted	Randall Grayson	Walker Cedric
Cooper Deb	Hober Daniel	Randall MaryEllen	Warner Charles
Craig William	Iams David	Ratcliff William	Williams Derrick
Curtis Frederick	Idrees Hassaan	Read Patrick	Wood Lynn
Czuhai Daniel	Irons Dave	Richardson Melody	Wright David C.
Decuir Joseph	John Kurtzman Stephen	Roske Gene	Xu Lai
Dent Cindy	Kemp Steve	Russell Ralph	Zentner Mark
Diepenbrock Joseph	Kimball Thomas	Sáez Florencio	Zhou Huiyang
Driessen Steve	Kitchens John	Schennum Rhonda	Zuckerman Douglas

Thanks to our Supporters



* New



International MOVE Update

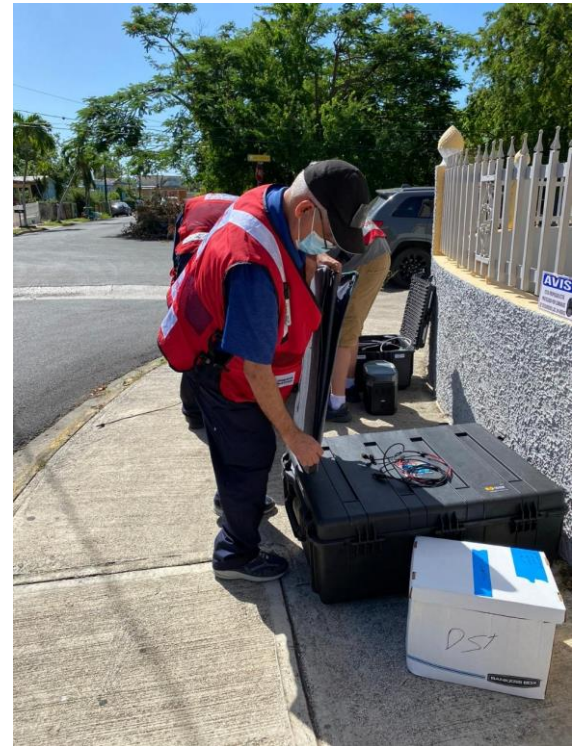
By M.E. Randall

There is exciting news from our International MOVE community!

In India, there are multiple STEM outreach events planned for the coming months. Details to follow.

In the Caribbean, the Modular MOVE kit is being expanded to include a low power radio solution. These will be prepositioned and stored in a safe place in vulnerable areas of Puerto Rico. A test of the kits is planned for February. Results to follow.

So proud of our teams and their many accomplishments!



Disaster Awareness Training

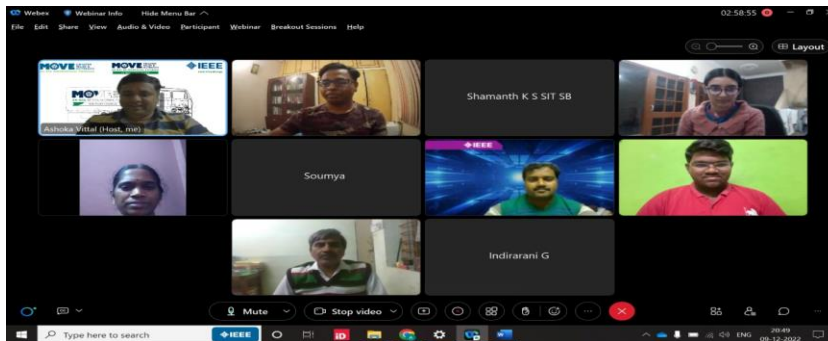
IEEE MOVE Outreach India launched the second in-person disaster awareness training, an initiative for government school students, ToT (Training of Trainers) and to engineering students, was held on **November 30, 2022**, in collaboration with REVA University at their campus at Bangalore. About 100 government school students and 50 REVA IEEE volunteers attended the training program.



Disaster awareness training program at REVA University, Bangalore

Virtual Disaster Awareness Training Program

The first virtual disaster awareness training program was held on December 6, 2022 and the second virtual disaster awareness training program was held on December 9, 2022



Plan for MOVE Outreach India for 2023

IEEE MOVE Outreach India under the new IEEE India Council Chair Prof. Debaprata Das has set three major priorities for 2023

1. Portable Disaster Response Kit

Launch of portable disaster response kit with communication and power equipment which can be carried by volunteers during disaster.

2. Disaster Awareness and STEM Training

Plan to organize Disaster Awareness and STEM Training for more than 100 schools across India in partnership with like-minded organizations, schools, and institutions.

3. Launch of Mini MOVE India Truck

Launch of Mini MOVE Truck with communication and power equipment for moving to disaster sites and also for organizing disaster awareness and STEM Training when the truck is not used for disasters.

Communication phase starts with the antenna tests at MOVE Puerto Rico

By Loderay Bracero Marrero

The number of volunteers in MOVE Puerto Rico has continued to grow and we are preparing for phase 2: the communication component of the kits. Along with IEEE MOVE USA, Puerto Rico plans to conduct communication experiments using two antenna prototypes. Volunteers have started to take their amateur radio classes, and the team is also planning other activities.

MOVE-Puerto Rico and MOVE-USA university personnel and radio amateur colleagues of Puerto Rico, will work as a team for the antenna tests. We will test antennas using the Near Vertical Incident Skywave (NVIS) propagation method. Three locations on the main island of Puerto Rico have been selected to conduct the tests at university campuses: the University of Puerto Rico (UPR) Ponce, UPR Mayagüez, and the Polytechnic San Juan.

The team will use the first three days to complete the antenna installation. Once installed, the test will be conducted simultaneously. MOVE volunteers and radio amateurs with a general license will be at each site. In addition, other radio amateur people in Puerto Rico, including Vieques and Culebra, will be participating in confirming our transmissions. The invitation to these tests has been extended to the university communities to have conduct a STEM event.

As part of the communication phase, four volunteers are taking the course to become Radio Amateur Technicians. The course takes place weekly until March 2023. After taking the certification to become a radio technician, the plan is to take the test for the general license. This education component will build the capacity for future antenna tests and communication needs Puerto Rico may encounter in a disaster.

Other activities are being planned for this semester as well. For example, the setting up of the rest of the kits is in its final stages. In February we will participate in a festival at the University of Puerto Rico, Río Piedras campus. For this activity we plan to recruit new volunteers and spread the word about MOVE International. Lastly, MOVE Puerto Rico will be representing MOVE International at the IEEE Board Meeting this month (February 15-19 in New York city), and we will continue to support the Red Cross by offering technical talks and more activities.

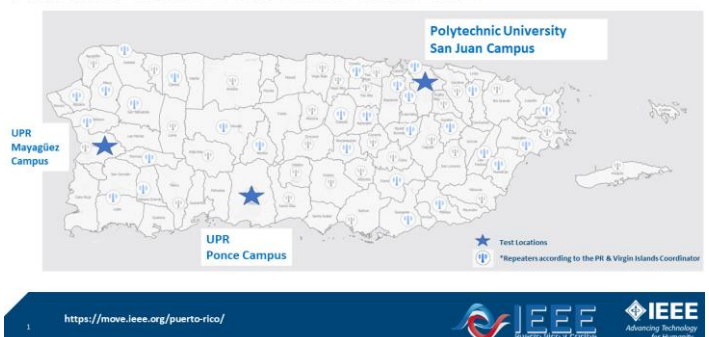
Again, thank you to all the volunteers of MOVE Puerto Rico and MOVE USA for their support, trust, and commitment.

Contact: move-puertorico@ieee.org



Set up of kits and inventory case #1(inverters)

Antenna Tests Locations: Puerto Rico



Sites for the Antenna tests