

Volume 14 | NUMBER 2 | MARCH / JUNE 2022 | 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

The MOVE team has been very busy this past spring. In March, MOVE was at the Atlanta Science Festival's Exploration Expo, the first in-person since COVID. Information on this event can be found in this newsletter.

When we received the 2nd truck last year, our goal was to move one of the trucks to support the western half of the United States. In May, it became reality. If you missed the MOVE across America journey on MOVE Facebook, read the details as Grayson describes the journey and shares photos along the way.

MOVE teams are still looking for volunteers to support both trucks in both locations. If you are interested in volunteering, please contact Mark Torres (MGTorres@ieee.org)

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>.

Once again, a special section is included on MOVE Puerto Rico and India.

**MOVE 2019 ASAE
"Power of A" Gold**



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MOVE COMMUNITY
OUTREACH
AN IEEE★USA INITIATIVE

Mobile Disaster Relief with MOVE

MOVE ACROSS AMERICA

By Grayson Randall

"MOVE Across America" was a trip across the United States to deliver a disaster relief vehicle to the MOVE West team. The trip covered 3,200 miles over 17 days.

Last year the MOVE program was donated a disaster relief vehicle from Cisco Systems. After outfitting the truck for MOVE operations, both MOVE disaster relief trucks were deployed to hurricane Ida in Louisiana and to Mayfield Kentucky after the devastating tornado there. After two successful deployments, MOVE decided to execute its strategy to have a disaster relief truck on each coast.

Region 6 (US west coast) developed plans for West coast operations called MOVE West. With operations plans, budgets, team building, and fundraising efforts in place, it was determined that MOVE should arrive in San Diego California in time for the IEEE Vision, Innovation, and Challenges Summit (IEEE VIC Summit) & Honors Ceremony. This worked well with our presence at the PES T&D conference in New Orleans Louisiana. We worked with IEEE Sections along the route to generate stops where the MOVE truck could be displayed.

After a lot of planning, David Sewell and Grayson Randall left Raleigh North Carolina on April 22, stopping in Birmingham Alabama for an open session there.



MOVE Across America

New Orleans for the IEEE PES T&D conference 2022

We moved on to New Orleans for 3 days on the exhibit floor of PES T&D conference where there were 10,500 attendees.



Team Members in New Orleans



IEEE President and CEO 2022 - Ray Liu visit



Engagement with approximately 10,500 attendees.

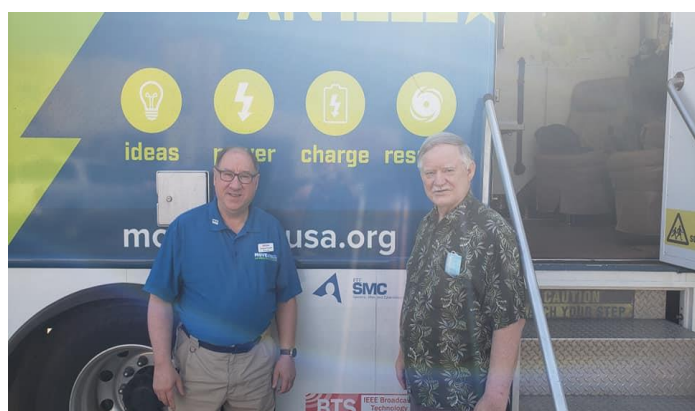
Mobile Disaster Relief with MOVE

After T&D we showed the truck at the University of Texas - Dallas, University of Oklahoma- Norman, and University of New Mexico- Albuquerque. From there we displayed the MOVE truck to the Section in Phoenix Arizona.

The weather on this trip was uneventful except near Amarillo Texas. We encountered 2 very large thunderstorms in our path with apple size hail. We worked with our weather team who were watching this develop. They helped position us so we did not encounter any hail. We experienced strong winds and heavy rain but the efforts of the support teams kept us safe.

While in Phoenix, we met with the NBC affiliate who is developing a 1 hour special on the monsoon season. They spent almost 2 hours with us taking lots of film to be included in their show scheduled to air on June 15th. Watch the MOVE media channels for updates on how to see the show.

Link: https://bit.ly/12_News_Monsoon_2022



Special thank you to the Section leaders in the Dallas, Oklahoma City, Albuquerque and Phoenix sections. Not only were they great hosts but they donated to the cause by providing hotel rooms for the two drivers. Thank you.

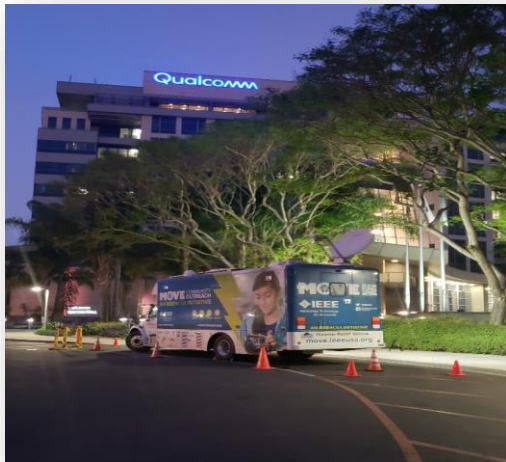
MOVE WEST LIVE

IEEE MOVE West Goes LIVE – MAY 2022

By Kathy Herring Hayashi

What a milestone to celebrate! The MOVE-1 vehicle officially arrived in San Diego around 8:30 PM on May 4th. I hope you've read about the MOVE across America journey and a huge thank you to David Sewell, Grayson Randall and the many support teams that made the trip happen.

Community With no time to waste, MOVE-1 made a community engagement visit to the Qualcomm/IEEE Evening of Innovation. At this event, industry leaders, students, San Diego section members, IEEE leaders, local ham clubs and more got their first opportunity to see and engage with the MOVE initiative.



MOVE-1 at Qualcomm, Inc Headquarters for the *IEEE/Qualcomm Evening of Innovation* in San Diego.



Kathy Hayashi, IEEE MOVE West lead and Region 6 Director-Elect, this afternoon after qualifying two new drivers.



Andy Moorwood and Tim Troske qualified to drive MOVE-1 after a rigorous class.



MOVE-2

MOVE-2 supports Red Cross Sound the Alarm event in Raleigh, NC

By Jay Diepenbrock

On May 14, Jay Diepenbrock and Lee Mari (a Red Cross DST volunteer) supported a Red Cross Sound the Alarm event in Raleigh, NC. The objective was to install 80 smoke alarms in homes that didn't have one (or a working one). Statistics show seven people die per day in the US due to fires, so this work can have the direct of saving lives. MOVE-2 acted as the communications hub for the event, receiving and forwarding requests from the teams for supplies and translators, and relaying announcements to the teams. The event was a success in spite of intermittent rain, and the Red Cross team appreciated our support.

MOVE-2 supports Red Cross Sound the Alarm event in Hope Mills, NC

Mark Smith and Jay Diepenbrock traveled to Hope Mills, NC on May 21 to support the American Red Cross on a Sound the Alarm event in Hope Mills, NC.



Stand up meeting to brief the teams



Lee and Jay in the MOVE-2 radio room



MOVE-2 on station outside the Hope Mills Community Center



MOVE-2 on location in the neighborhood



Mark connecting an Ethernet cable for the Wireless Access Point.



The Red Cross had 24 teams to go out in the community to install smoke alarms and prevent loss of life due to home fires.

The Red Cross and Fire Department teams rally before going out

MOVE at IEEE WIE ILC 2022

MOVE at IEEE WIE ILC 2022

By Kathy Herring Hayashi

In June, the MOVE initiative had a strong presence at the IEEE Women in Engineering Leadership Conference. With yet another milestone, the MOVE WEST Driver Team drove the MOVE-1 truck to their first Community Event at the San Diego Convention Center.

At the event, Kathy Hayashi presented in the Transforming Leadership track describing how the MOVE initiative can allow members to see what true teamwork looks like, how remote teams work together, and the unique leadership opportunities MOVE provides. After the presentation, the attendees provided steady traffic to the truck as they toured and learned more about the IEEE MOVE Initiative.

Many other WIE ILC attendees/MOVE Leaders were also in attendance, including Mary Ellen Randall and Jenifer Castillo, as they continued the discussions throughout the conference



*Thank you
IEEE WIE ILC 2022
for a great event!*



move.ieeeusa.org

MOVE-2 updates

MOVE Volunteers update of MOVE-2

As the IEEE Operations team members shared on social media.

By Luis A. Tatis

In early May, the MOVE operations team, led by Grayson Randall, held a work party for the improvements and update of the MOVE-2 Truck to enhance its performance.

Grayson Randall, Jay Diepenbrock, Alan Brown, Dan Fuccella, David Wright, AJ Burke and Tim Forrest worked on the weather station, shore power cables, rack cables, the documentation on device interconnections, and more.

The changes that the team worked will allow us to be more effective as we face a predicted busy 2022 hurricane season. It was important to get these tasks completed as we are now in the 2022 hurricane season. Hurricane season started on June 1st and there is already activity in the gulf. MOVE is continuing to improve our capabilities to respond to disasters in support of those in need.

We are indeed thankful for your expertise and continued contributions. Thank you.



move.ieeeusa.org

Six (6) new drivers to MOVE Operations By Grayson Randall

Congratulations to the 6 new drivers and a new maintenance team member. They just successfully completed a one week training program for MOVE-1. This is the 1st training class for MOVE West in San Diego California.

The team is now qualified to deploy MOVE-1.

L to R: David H Sewell (Instructor), Albert Lin, Andy Moorwood, Tim Troske, Walt Burns, Sunny Sudstrom, Dennis Peck, and Bill Torre



Contacts:

USA Mission: Loretta Arellano
l.arellano@ieee.org and Mark Torres
MGTorres@ieee.org

International Mission: Mary Ellen Randall
merandall@ieee.org

Want your IEEE Society to support MOVE?
Possibilities include (depending on level)

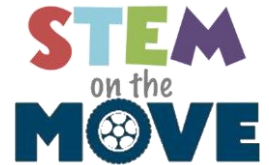
- Sponsor a Joint STEM event
- MOVE truck at your conference
- Your Logo on MOVE web page
- Facebook post featuring your society
- Your Logo on the MOVE truck

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

For more information, contact merandall@ieee.org

MOVE STEM

By Melody Richardson



The Atlanta Science Festival's Exploration Expo was held on March 26, 2022 in Piedmont Park in Atlanta, Georgia. 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 all across the region.

The Expo featured 75 hands-on interactive science booths and live science demonstrations from local organizations, universities, and companies. Festival-goers were able to touch a human brain, saw a Delta jet engine in person, and discovered the MOVE truck program. Visitors to our mobile exhibit explored simple circuits while making a light-up MOVE truck badge, took a tour of the truck, and learned about all the types of engineers who made the MOVE truck from the ground up.

The Festival drew a large, diverse audience of all ages, ethnicities and backgrounds, from professionals to novices, from science enthusiasts to the merely curious. It is estimated more than 15,000 attended the Expo and we gave over 700 tours of the truck.



Volunteer Engagement Team

Volunteer Engagement Team

By Mark Torres

The MOVE Volunteer Engagement Team is charged with coordination of activities to recruit and engage volunteers. This team was established at the beginning of 2022 with Mark Torres serving as the first team lead. To fulfill its objectives the team performs the following activities:

- **Welcome new MOVE volunteers** to confirm the information provided online or via email and to provide information on upcoming training opportunities.
- **Coordinate Onboarding & Retention of MOVE volunteers**
- **Support other MOVE teams** with volunteer engagement activities
- **Support MOVE activities at Event & Conferences**
- **Maintain the MOVE volunteer roster** using the online survey and information provided by other team leaders and directly from volunteers. This roster provides up to date information on volunteers contact, training and interests to support the deployment process and to identify volunteer training needs and skills.

Our priority has been to consolidate all volunteer information into a single roster. An accurate roster is critical to providing the MOVE leadership with accurate and complete information for event deployments. For that reason, all volunteers are urged to provide any changes in your current situation, location or email address by contacting Mark Torres or by submitting updates on the Volunteer Interest Form >> <https://bit.ly/MOVE-SIGNUP>

As a new team, volunteers are needed to assist with the team activities. If you are interested in assisting with volunteer engagement, please contact Mark Torres at MGTorres@ieee.org



Volunteer Engagement Team

Volunteer Highlight

By Mark Torres

Mark Torres became an IEEE member while attending Mississippi State University over 40 years ago. Following graduation with a BSEE, Mark held numerous positions at AT&T in Engineering, Finance, Marketing, and Information Technology. He retired from AT&T in 2020, as a Principal Big Data Software Engineer in the AT&T Chief Data Office, with responsibility for Strategy, Roadmap and Implementation of AT&T's Apache Hadoop Big Data and associated automation platforms.

Mark has been active in IEEE at the USA, Region and Section level. In 2020 & 2021 he served on the IEEE-USA Board as Vice President – Career & Member Services (C&MS). In this and in past Region 3 positions, Mark focused on providing member engagement opportunities with value and benefit throughout the career lifecycle. Mark promoted activities and programs with an emphasis on IEEE Young Professionals, Student Members and K-12 STEM. Engagement of these current and future IEEE members is key to a strong future for IEEE and our profession.

As the IEEE-USA VP – C&MS, one of Mark's responsibilities was to act as liaison between MOVE and the IEEE-USA board. Having worked with MOVE at the region level, Mark was able to champion and advocate for MOVE at the board level. After leaving the board this past December, Mary Ellen asked Mark to serve as the MOVE Volunteer Engagement Chair.

MOVE provides the ideal opportunity to support IEEE's core purpose >> ***to foster technological innovation and excellence for the benefit of humanity.*** MOVE is therefore the perfect way for Mark to continue to focus on providing member engagement opportunities with both a humanitarian and STEM impact.



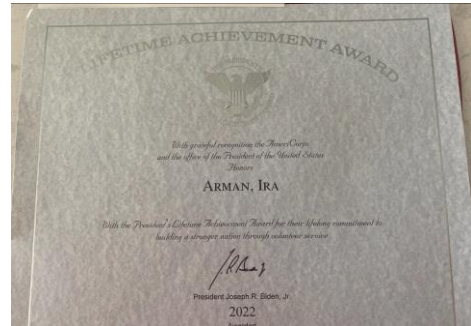
MOVE Volunteers Recognized

Congratulations

IEEE MOVE team member **Jay Diepenbrock** was presented the Region 3 Professional Leadership award at IEEE SoutheastCon 2022 conference in Mobile Alabama. IEEE MOVE is proud to have Jay on our team.



United States Presidential Lifetime Achievement Award was given to **Ira Arman**. Central Florida volunteer in The American Red Cross and MOVE. Well deserved!



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Thanks to our Supporters

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MOVE Program Expansion Progress

By Mary Ellen Randall

It is wonderful to see how MOVE is progressing in other areas around the world!

In India, under the leadership of India Council Chair Dr. Suresh Nair and Humanitarian Leader Ms. Sadhana Altavar, several hundred volunteers have been training in disaster relief technologies. Further, volunteers are engaging with industry and other organizations which support relief and STEM activities. Read on for additional details.

Volunteers in Puerto Rico, under the leadership of Dr. Loderay Bracero Marrero, are completing emergency technology kits which will be setup after disaster strikes and enable communication in areas typically cut off after a Hurricane. This same group of volunteers assisted The Red Cross after a recent flooding disaster.

Many thanks to those expanding the MOVE program and "advancing technology for humanity!"

Activities: MOVE Outreach India Program

- Call for volunteers for IEEE MOVE India Program
- 263 volunteers applied for volunteering for the program and following six committees were formed with leaders and coleaders for various committees.
- 1.Technology
- 2.Operations
- 3.Partner relations
- 4.Education
- 5.Marketing
- 6.Finance

IEEE

MOVE Disaster Relief Deployments - 2016 to 2022

- 2022**
 - Toa Alta and Cataño Flooding
 - Tornadoes Kentucky area
- 2021**
 - Tornado Brunswick County, NC
 - Tennessee Floods
 - Hurricanes Ida/Nicholas(3)
 - Tornadoes Kentucky area to 2022
- 2020**
 - Tennessee Tornado
 - Hurricane Isaias
 - Hurricane Laura
 - Hurricane Sally
 - Hurricane Delta
- 2019**
 - Hurricane Dorian (FL, SC & NC)
 - Hurricane Barry (Baton Rouge, Louisiana)
 - Alabama Tornado Response
- 2018**
 - Hurricane Michael
 - Hurricane Florence (NC)
- 2017**
 - Missouri Flood Relief
 - Hurricane Maria
 - Hurricane Irma (Florida)
 - Hurricane Harvey (Houston)
- 2016**
 - Tennessee Wildfires
 - Hurricane Matthew
 - Hurricane Hermine
 - Louisiana Flood Relief
 - West Virginia Flood Relief

IEEE

MOVE Truck - Details

Packed with technology to assist in diverse emergency relief activities

- Communication
- Power
- Information services
- Rescue Equipment and Drone

IEEE

First Deployment

DRO536-22

IEEE

An update on MOVE Outreach India Program

By K R Suresh Nair, Sadhana Attavar

Humanitarian activities have attracted many volunteers in India and same is the case with MOVE Outreach India program. Against the call for volunteers, around 600 volunteers have responded and another 100 active volunteers from last year are also added to the team. The induction program was held on 23rd April, 2022. Six functional teams are formed and they are lead by very senior professionals.

Technology Team : Prof.Surya Durbha, IIT Bombay

Operations Team: Mr. M.C.Jayakrishnan, CEO, InApp, Kerala

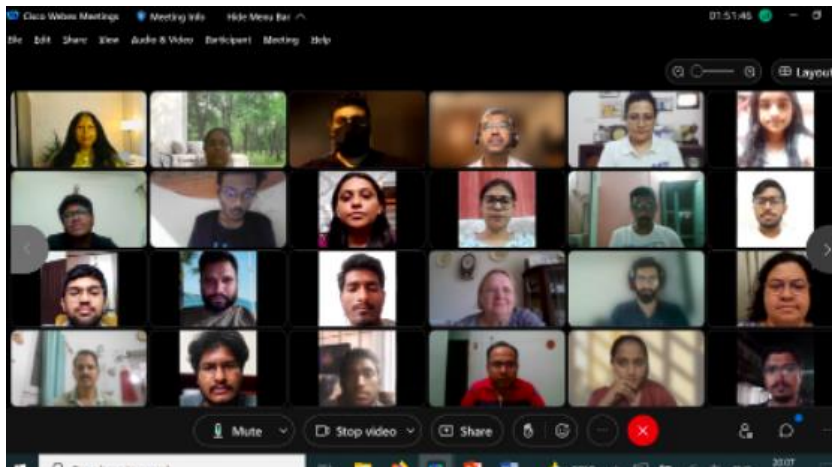
Educational Team: Dr.Mousiki Kar, Heritage Institute of Technology, Kolkata

Sponsorship Team: Dr.Madhumita, Director,CMSDS, DRDO,Kolkata

Marketing Team: Mr.Arun Tanksali, CTO, Nearex,Bangalore

Partner Relations Team: Mr.Jayakrishnan, Divakaran, VP Engineering, VNJ Systems, Bangalore

The Project Director is Ms.Sadhana Attavar, Director, Visvesvaraya Technological Museum. The overall leadership is by Dr.Suresh Nair, Chair, IEEE India Council and CEO of Design Alpha. The team is advised and guided by Ms.Mary Ellen, Mr.Deepak Mathur, R10 Director and Mr.Amarnath Raja. The whole team meets on first Saturday of every month to discuss the progress. Internal meetings of leaders happen almost every day through electronic media.



A partnership brochure, slide deck were prepared and the web site is active. Sponsorship activities are undertaken by the team and exploring possibilities of getting truck as well as equipment from various institutes. Under the STEM program, discussions have progressed to signing soon of MOU with Atal Innovation Labs, Government of India, who has got excellent reach and labs across the country.

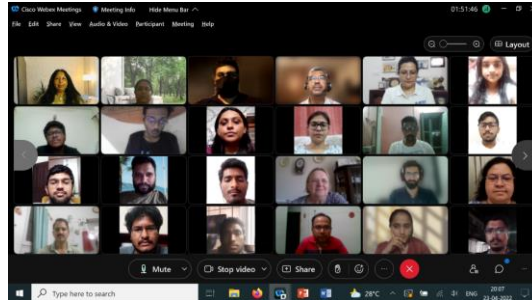
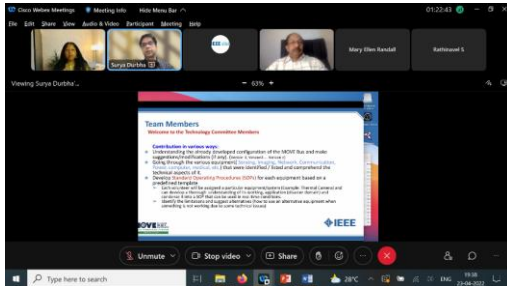
As part of training, talks were conducted such as “The whole of Society approach for Disaster risk management” by Dr.Ranjit Chatterjee, Kyoto University Japan, “Risk to resilience: A journey for Urban India” by Dr.Mahua Mukherjee, IIT Roorkee.

More details: <https://ieeemove.in>

The year 2022 for MOVE Outreach India program undertaken by IEEE India Council led by Dr. Suresh Nair and Ms. Sadhana Attavar kicked off with the action plan for launch of MOVE India Truck by end of 2022.

Call for Volunteers

In response to call for volunteers during February 2022 about 600 volunteers responded and 100 volunteers from 2021 renewed for volunteering for 2022. Volunteer induction programme was held on April 23 2022.

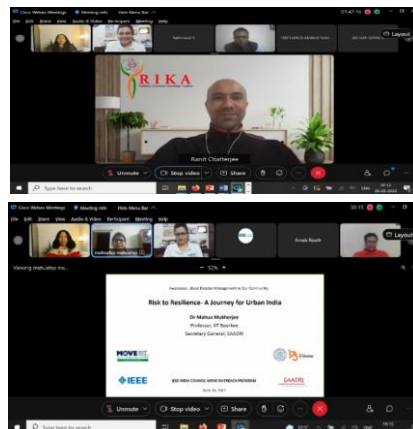


MOVE India Flyer

Two page MOVE India flyer was released during February 2022



Talk Series on Disaster Response



Puerto Rico is completing the emergency kits and recently started the radio efforts

By: Loderay Bracero Marrero

The disaster relief efforts in MOVE International Puerto Rico have continued advancing in a forecasted active hurricane season scenario. We have divided our work into two phases. The first phase (Phase 1) involves creating the emergency kits, and the second phase (Phase 2) focuses on radio communications, including organizing and participating in virtual events.

Phase 1 is almost completed. As previously reported, the emergency-kit creation is titled the Modular MOVE design. This Modular MOVE is based on portable emergency kits that will be deployed in times of disaster. We have adopted this design in Puerto Rico. Each kit contains electrical inverters, solar panels, chargers, and radios to assist the Red Cross in disaster relief. Currently, we are in the process of acquiring the protection boxes for these items. After this step is completed, a total of three (3) kits will be distributed in three separate locations on the main island of Puerto Rico. Thanks to the collaboration of the Logistics Division of the Red Cross Puerto Rico Chapter, one of the kits will be at one of their main facilities in the capital, San Juan. Upon nearing completion of these tasks, we started working on Phase 2 of the project.

Phase 2 is focused on radio communications, and we began by gathering information about the radio community in Puerto Rico (Radio Amateur License Types) and starting the process of testing antenna infrastructure in Puerto Rico. First, we gathered information and contacted different groups and associations that have worked for decades in the radio community in Puerto Rico. Second, in the Fall, we plan to certify ourselves as amateur operators with the Technical License. After acquiring this first license, we plan to acquire the General Class License. Since these efforts are being conducted jointly with the Logistics Division of the Puerto Rico Chapter, several volunteers from IEEE MOVE and Red Cross personnel will be taking the certification courses.

Third, another task of Phase 2 is to test antennas that have been designed by colleagues of IEEE MOVE USA in Puerto Rico. These antennas can help Puerto Rico communicate, especially in times of disaster, to avoid a loss of communication. Finally, we are enthusiastic about the IEEE Western Section of Puerto Rico collaboration in Phase 2. They have offered help with arranging meetings with the radio community to discuss the possible locations of the antennas.

We have organized and participated in virtual events to show the progress of MOVE Puerto Rico. In February, during this Spring semester, we called for volunteers for our first team meeting inside the IEEE Puerto Rico and Caribbean Section (PR & Caribbean). In March, MOVE Puerto Rico and MOVE USA showed a summary in a virtual event organized by the PR & Caribbean section. We also enjoyed participating in the MOVE Town Hall together with colleagues from MOVE USA and MOVE India. Each group shared its milestones and presented its current and future activities. Lastly, with the IEEE Foundation and MOVE USA, we had the pleasure to speak about the MOVE Puerto Rico objectives and our next steps.

We are grateful for volunteers and MOVE USA's support. We are confident that MOVE International will continue to grow globally inside the IEEE to serve as an example of our mission: Advancing Technology for Humanity.

If you would like to join the Puerto Rico efforts, please contact us at: ieeeprcsection@gmail.com loderay.bracero-marrero@ieee.org.

Photo #1 Example of the Modular MOVE: emergency kits items for each kit



Photo #2: MOVE Puerto Rico participation in the webinar held on May 19, 2022, by the IEEE Foundation and MOVE USA

