

Newsletter February 2025

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Newsletter Editor: Katherine Grace August, PhD

MOVE (Mobile Outreach using Volunteer Engagement), An IEEE-USA Initiative


The MOVE program, founded by Mary Ellen Randall, 2025 IEEE President-Elect, is committed to assisting victims of and responders to natural disasters and is gathering momentum around the globe. MOVE responded to many crises in 2024. Fulfilling essential short-term communications, technology, and power solutions makes MOVE a game changer. Volunteers bring their diverse skills to the team, share their experiences

raise awareness and provide STEM engagement to educate the public about the varied aspects of technology with a positive impact on society. MOVE volunteers develop new skills while bringing meaningful humanitarian engagement to the community near and far. Please visit move.ieee.org to learn more.



MOVE News Update by Loretta Arellano

Celebrate the 9th Anniversary of MOVE Community Outreach an IEEE-USA Initiative! Join us for our annual **Townhall Meeting** on **19 March at 10:00 AM EST** as we celebrate nine years of MOVE's impactful operations! This inspiring event will feature updates and insights from IEEE Leadership, MOVE Volunteers, and the American Red Cross. Learn about the highlights of 2024 and hear our vision for the future.

 **Mark your calendars** and sign up here: <https://events.vtools.ieee.org/m/462196>

A Special Thank You to Our Volunteers and Sponsors - In our February print issue, we honor the incredible contributions of our volunteers and sponsors. Without your support, IEEE MOVE's initiatives—including deployments, STEM and public visibility events, newsletters, social media efforts, operations, and training—would not be possible. Thank you for driving our success!

Get Involved with MOVE Community Outreach! With so many exciting activities planned, we're looking for passionate individuals to join the IEEE MOVE team. Whether you're interested in leadership, deployment, training, STEM, public outreach, fundraising, communications, or operations, there's a role for you!

 **Sign up today and make a difference!** Visit <https://bit.ly/MOVE-SIGNUP> to express your interest and join the effort.



Upcoming MOVE training

By David Sewell

IEEE MOVE Training and Development Speakers: Col Jennifer Smith and Lt Col Michael Toedebusch

Topic: Missouri Wing Civil Air Patrol 8:00 PM Tuesday 25 February 2025

IEEE MOVE invited speakers on Tuesday 25 February 2025 at 8:00 PM are Col Jennifer Smith, the Missouri Wing Civil Air Patrol (CAP), and Lt Col Michael Toedebusch, the Missouri Wing Civil Air Patrol Chief of Staff for Missions. They will discuss CAP aerospace, aviation, and STEM related curriculum and how MOVE can work with and support the Civil Air Patrol Cadet program serving thousands of cadets aged 12 to 21 through a program that uses aviation as a cornerstone.

CAP is a federally chartered non-profit corporation that also serves as the Air Force Auxiliary across eight regions composed of fifty-two wings, operating in fifty states, the District of Columbia and Puerto Rico via detachments. The Civil Air Patrol United States Air Force, or CAP-USAF is headquartered at Maxwell Air Force Base, Alabama. With more than 60,000 volunteers, CAP's mission is supporting communities with emergency response across, diverse aviation and ground services, youth development and promotion of air, space and cyber power through aerospace education. CAP is engaged daily with a variety of missions and activities providing search and rescue, disaster response, and supporting counterdrug operations.



https://en.wikipedia.org/wiki/Missouri_Wing_Civil_Air_Patrol

<https://mowg.cap.gov/programs/missions/cadet-programs>

<https://www.gocivilairpatrol.com/>

<https://www.af.mil/About-Us/Fact-Sheets/Display/Article/104475/civil-air-patrol-us-air-force/>

IEEE-USA MOVE 3 at the November IEEE Board Meeting in Dallas, Texas
By Mark Torres

The IEEE-USA MOVE 3 vehicle which is based in San Diego, California, traveled to the November IEEE Board Meeting Series in Dallas, Texas. While there, IEEE-USA MOVE 3 volunteers provided tours showcasing the Modular MOVE equipment designed for disaster deployment including the Anker SOLIX Portable Power Station, Cisco networking equipment, and Starlink high-speed internet. The tours highlighted the IEEE-USA MOVE 3 vehicle’s capabilities for disaster response as well as STEM and visibility events. Walt Burns, Tim Troske, and Mark Torres gave detailed and engaging demonstrations to many people who attended the IEEE Board Series from around the world.

Tom Coughlin 2024 IEEE President (pictured) toured the IEEE-USA MOVE 3 vehicle and reviewed the implementation of the Modular MOVE which were fast-tracked to address the critical need raised by the 2023 wildfire disaster in Hawaii.

During the IEEE Board Meeting Series, the IEEE Global MOVE Committee held sessions to review progress for 2024 and strategize for 2025. This was an excellent opportunity to reconnect with colleagues and energize the team for the year ahead. The IEEE-USA MOVE team also presented an update at the IEEE-USA Board Meeting, which led to passing a resolution recognizing IEEE-USA MOVE Community Outreach as a significant contribution to disaster response and STEM visibility. This recognition was echoed by numerous groups and individuals throughout the Meeting Series.

At the conclusion of the IEEE Board Meeting Series, Bill Torre, and Albert Lin drove the IEEE-USA MOVE 3 vehicle back to its base location in San Diego, California.



L/R: Tom Coughlin and Mark Torres



L/R: Tim Troske, Grayson Randall, Loretta Arellano, Becky Borensen, Mary Ellen Randall, Simay Akar, Lwanga Herbert, Ralph Hogan, Ananda Grant, Mariela Machado Fantacchiotti
Back Row: Mark Torres, Dave Green and Walt Burns

Los Angeles Wildfires and IEEE-USA MOVE Deployment

By Grayson Randall

Many people have asked why IEEE-USA MOVE did not deploy early to the Los Angeles wildfires. IEEE MOVE leadership was in touch with the American Red Cross (ARC) representatives throughout this event. Most people impacted by the Los Angeles wildfires evacuated the disaster impact zone into areas that had power and communications. In fact, in this large metropolitan area, many people used hotels and rental properties while displaced from their homes. ARC shelters were also placed in facilities that had power and communication available. For these reasons, IEEE MOVE's role of providing power and communications services was not immediately needed.

When conditions changed and our support was needed, IEEE-USA MOVE deployed MOVE-3 to the Border 2 wildfire near San Diego.

IEEE-USA MOVE has processes and procedures to ensure crew and equipment safety during deployments. For each event, we work with our partners to determine the need for our services and where and how we can best be utilized. Every disaster is different, with the disaster type, location, impact to infrastructure, and distance to available resources such as hotels, airports, and highways all contributing to the need for IEEE MOVE's services.

The IEEE-USA MOVE Operations team will be supporting many outreach events over the next few months. If you have an interest in deploying with the IEEE-USA MOVE team, please consider volunteering.

Call for Volunteers

by Loretta Arellano

The MOVE program is looking for volunteers who not only have a deep passion for humanitarian work but also the expertise, wisdom and time to commit in support of our program. We are seeking candidates for leadership positions of our important committees (Operations, Communications, Maintenance, Public Visibility, STEM, etc).

We'd love to learn about your passions, skills, interests, and volunteer time to explore how we can work together to find a good fit for you in our program.

If interested, please visit <https://bit.ly/MOVE-SIGNUP> to complete our MOVE volunteer form.



IEEE MOVE Communications Team

By Jill Gostin

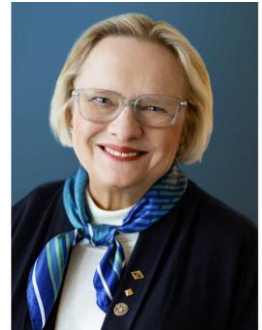
I am excited to be the new lead for the rapidly growing IEEE MOVE Communications Team – and I'd like to find others who are willing to help contribute to this important team. The IEEE MOVE Communications team manages the popular print and online newsletters, social media, outreach, and emails about upcoming events. We are the ones that work hard to keep the community and followers up to date on the latest IEEE MOVE information.

If you are interested in becoming a part of the IEEE MOVE Communications Team, please reach out to me at jgostin@ieee.org.

Keynote by Mary Ellen Randall: 15th IEEE Integrated STEM Education Conference (ISEC) at Princeton, University

By Katherine Grace August, PhD

Mary Ellen Randall 2025 IEEE President Elect will be featured in a Keynote at the 15th IEEE Integrated STEM Education Conference (ISEC) on Saturday, 15 March 2025 at McDonnell and Jadwin Halls, Princeton University in Princeton, New Jersey, USA. ISEC is known for featuring cutting-edge research and experiences with integrated approaches to the study of science, math, and technology STEM, through experiences and activities based in engineering and other design disciplines. Submissions on cutting-edge research related to STEM education are invited. In consideration of travel constraints, the conference also welcomes virtual presentations. This is an exciting and engaging conference for all ages with Keynotes, papers, posters, presentations, workshops, demos, and more.



Mary Ellen Randall

For more information about the 15th IEEE Integrated STEM Education Conference (ISEC) at McDonnell and Jadwin Halls, Princeton University, Princeton, New Jersey USA please see: <https://ewh.ieee.org/conf/stem/>

Explore the IEEE-USA MOVE truck in virtual reality:

<https://ewh.ieee.org/ieee/move/vr/>



MOVE Member Profile

By Theresa Brunasso

When and why did you join IEEE?

I joined IEEE in 1982 after I was awarded a graduate fellowship from the University of Utah in electrical engineering. My undergraduate degree was in Physics, so I had been a member of the American Physical Society (APS) up to that point. I joined my professional society because I wanted to be part of the organization. I don't recall ever going to a student branch meeting, but I was proud to be an engineer, and wanted to be recognized as one.

What is your day job?

I retired at the end of last year, so my focus now is on IEEE volunteering. My career was in microwave frequency design for aerospace and defense applications. I worked on programs like DirecTV, XM Radio, Milstar, JSTARS, but my favorite (and coolest) project was designing the feed for the Ka-Band radar antenna that was used to land both Perseverance and Curiosity on Mars.

What do you do for MOVE?

I lead fundraising for IEEE-USA MOVE. That involves leading the Giving Tuesday donation effort on the Tuesday after the U.S. Thanksgiving holiday. I also reach out to IEEE societies and groups, such as IEEE Life Members Affinity Group and IEEE SA Standards to solicit donations.

Why did you volunteer for that role?

Two reasons. 1. Mary Ellen Randall asked me to. 2. I think what IEEE-USA MOVE does is important and an excellent way to engage members while supporting our communities using our technology. I'm also a huge fan of K-12 STEM outreach. I believe that engineers design our future, and we need to encourage young people to consider engineering as a career. The truth is, that I HATE asking people for money! I didn't ever ask my parents for money as an adult, and I don't even like taking gifts of money. However, I think that what IEEE-USA MOVE does is so important, that I'm happy to ask for donations.



L/R: Jill Gostin, Theresa Brunasso, Eric Grigorian,
MaryEllen Randall and Grayson Randall

Inspiring Elementary Students with STEM and Coding

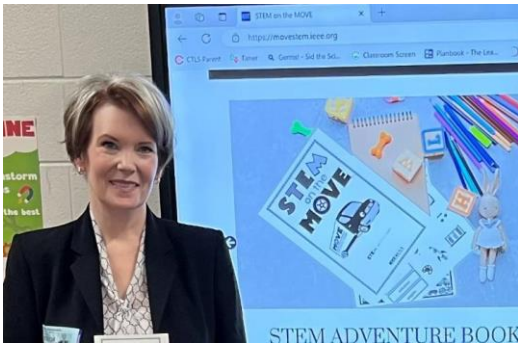
By Melody Richardson

Melody Richardson, founder and coordinator of IEEE MOVE Community Outreach “STEM on the MOVE” program, recently visited an Elementary School in Georgia, USA to engage students in discussions about the IEEE-USA MOVE program, the importance of STEM, and how challenges can lead to personal and academic growth.

Melody provided real-world examples of how STEM is applied in disaster relief efforts and shared the importance of learning from challenges and using each as a stepping stone to success. Her message encouraged students to approach setbacks with perseverance and view them as opportunities to improve.

During the visit, Melody also participated in the *Hour of Code* challenge, guiding students through interactive coding activities that demonstrated how technology can be both accessible and fun. The hands-on session sparked curiosity and introduced students to the creative side of problem-solving.

By the end of the visit, students gained a greater appreciation for the role of STEM in addressing real-world challenges and left feeling inspired to explore new opportunities in science, technology, engineering, and math. Melody’s visit highlighted the power of STEM to empower individuals and make a positive impact in communities.



Melody Richardson Founder and Coordinator of STEM on the MOVE



IEEE-USA MOVE 2024 Review

By Mark Torres

2024 was a whirlwind of activity for the IEEE-USA MOVE Program, with 24 Public Visibility and STEM events that helped us engage communities and further our mission. The New Year, 2025, is already shaping up to be just as dynamic! In 2024, we had the privilege of participating in major events like the November Board Meeting Series in Dallas, the Atlanta Science Festival, the IEEE VIC Summit & Honors Ceremony, the 2024 Life Member Conference, the International Microwave Symposium, and the World Forum on Public Safety Technology—just to name a few. We've already been approached by many of these same groups to participate again in 2025, so stay tuned for more exciting opportunities.

Another highlight of 2024 was the impressive growth of our volunteer base. We welcomed 112 new volunteers, and a total of 225 unique volunteers engaged in one or more activities throughout the year. This is a fantastic reflection of our collective efforts to support IEEE's mission of *Advancing Technology for Humanity*. I want to extend a heartfelt thank you to all of our volunteers for their dedication and hard work. Your contributions are what drive IEEE-USA MOVE's success, both now and in the future.

As you can imagine, Volunteer & Public Engagement is an essential part of what we do, and it involves a lot of moving parts. To ensure we continue to thrive, I'm excited to announce that we're building a dedicated team to support these activities—and I need your help! With your support, we can make sure everything runs smoothly.

In February, I'll be hosting a meeting for those interested in joining the Volunteer & Public Engagement team. Several volunteers have already expressed interest, but we'll need even more to ensure tasks are spread out and no one is overwhelmed. If you're passionate about making a difference and want to get involved, please email me at mgtorres@ieee.org.

Together, we can make 2025 another standout year for the IEEE-USA MOVE Program!

IEEE-USA MOVE Fundraising Update

By Theresa Brunasso

Giving Tuesday in 2024 was very successful. Generous donors contributed over \$6,140, with a matching amount of \$2,740 totaling \$8,880. This represented excellent growth in donations which more than doubled over 2023. I cannot thank you enough for your generosity. We are sincerely grateful for these contributions and collaborations. If you think your Society would like to help IEEE-USA MOVE Community Outreach an IEEE-USA Initiative with its global mission, please let me know. Thank you, everyone, for all you do for IEEE MOVE globally.

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

theresa.brunasso@ieee.org

Dr Martin Luther King Jr Day of Volunteering MOVE Community Outreach an IEEE-USA Initiative Presentation by Mark Torres

By Katherine Grace August, PhD

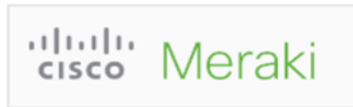
On 20 January 2025, IEEE Computer Society, IEEE Communications Society, and other collaborators hosted a Special Event episode of the “Careers in Technology” webinar series celebrating “Dr Martin Luther King Jr Day of Volunteering” with a presentation by Mark Torres on the 2024 response to disasters. The presentation brought special attention to the activities of MOVE Community Outreach an IEEE-USA Initiative in response to Hurricane Helene, which impacted North Carolina, South Carolina, and Tennessee, other responses during the year, and collaborations with the American Red Cross (ARC) and other first responders.

Volunteering can improve all of our communities. People are encouraged to volunteer for disaster response, STEM activities, and community outreach with MOVE Community Outreach an IEEE-USA Initiative in the United States and Globally in Puerto Rico and India.

Please check out Facebook: <https://www.facebook.com/ieeesusamove>



Thanks to our Supporters



Thank you to the 2024 IEEE-USA MOVE Volunteers & Supporters

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Brown, Simon	Galuchie, Karen	Lin, Albert	Randall, Mary Ellen	Walley, Rick
Brumm, Doug	Gardner, James	Lovegrove, Bill	Ratterree, Gary	Wei, Joseph
Brunasso, Theresa	Gaunt, Lauren	Lunn, Malcolm	Read, Patrick	Welch, Lee
Burke, AJ	Gibson, Kwasi	Luscre, Anthony	Richardson, Melody	Williams, Kim
Burns, Walt	Gilmour, Tim	Luze, Jason	Rodriguez, Homar	Willis, Tom
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Choe, Jonathon M	Green, Rhonda	Manske, Victor	Sackey, David	Wooton, Bill
Chubbuck, Brittany	Griffith, David	Mari, lee	Saez, Florencio	Worrell, Pete
Clemons, Tom	Grigorian, Eric	Martinich, Leslie	Sakoglu, Unal	Wright, David C
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Collier, Diane	Guzek, Bill	McGrath, Chris	Shadwell, Butch	Zahniser, Doug
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Coughlin, Tom	Hauser, Greg	McLaughlin, Mary Eileen	Sheedy, Gail	Zeller, Thomas
Creed, Elizabeth	Hayashi, Kathy	McNaul, Bill	Snyder, David	Zentner, Mark D
Creighton, Laura	Hayes, Melvin	Mercado, Orlando	Stamatakos, John	
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IEEE MOVE India Updates

By Sadhana Attavar

The IEEE MOVE India team kicked off the 2025 new year with a clear focus on launching the modular IEEE MOVE India truck equipped with communication and power systems. To take the first step toward this goal, a purchase order was placed for the IEEE MOVE India vehicle in January 2025. The team is also continuing its series of disaster awareness training programs and STEM workshops aimed at promoting climate change awareness and sustainability. Additionally, MOVEATHON, an ideathon focused on exploring technological innovations to mitigate disaster damage, is scheduled for later this year.

IEEE MOVE India, launched in India by IEEE India Council, welcomed a new Chair this year. On 1 January 2025, Prof. Prerana Gaur took over the role from Prof. Debabrata, who now serves as the immediate past Chair of the IEEE India Council. The core team of IEEE MOVE India is led by the Chair, Ms. Sadhana Attavar, who is also a member of the IEEE Humanitarian Technologies Board (HTB). Other key members include Mr. Arun Tankasali, Dr. Chengappa, and Dr. Mousiki Kar, who head the Marketing, Technology, and Education Committees, respectively.

The IEEE MOVE India team embodies the motto: "Today's awareness is tomorrow's protection; being prepared turns panic into action." In line with this vision, IEEE MOVE India, in partnership with IEEE SIGHT Kerala Section, organized a one-day workshop on Disaster Awareness and Preparedness on 15 January 2025, at Vidodaya School in Kochi, Kerala. The event saw participation from 300 students, equipping them with essential knowledge to respond effectively in times of crisis.



Disaster Awareness Training Programme at Vidodaya School ,Kochi,Kerala,India

Great Start in 2025 for MOVE Puerto Rico.

By: Francisco Carrero, Chair MOVE Puerto Rico

After a great 2024 full of growth, changes and preparations, MOVE Disaster Relief & Outreach, An IEEE Global Program, Puerto Rico began 2025 by participating at the IEEE-Latin America Microwave Conference (LAMC) held in San Juan, Puerto Rico, from 22nd to 24th January; thanks to Rafael Rodríguez Solís, LAMC-2025 General Chair for the opportunity to be an exhibitor during the event.

During the event we were able to showcase part of our MOVE Modular Kits designed to assist during disaster recovery deployments with power generation, communication via radio (high-frequency, digital mobile), and satellite internet with networking capabilities. More than 30 interesting discussions took place at the event between attendees and our volunteer members: Florencio Sáez, Héctor Feliciano, Magdiel Mojica, and Loderay Bracero. These discussions allowed us to explain the MOVE Disaster Relief & Outreach An IEEE Global Program, our work in Puerto Rico, and work around the globe. We expect to begin developing new and strong relationships with other IEEE entities, universities, and external collaborators.

Part of our working plan is to keep our membership engaged, and because of that we supported Hector Feliciano with his attendance of the course of Wilderness First Responder (WFR) held in San Francisco, California in December 2024. The knowledge and skills gained by Hector will be shared with all our volunteers for the benefit the MOVE PR Team.

Stay tuned for upcoming news!

For information about how to become a volunteer, contact us: move-puertorico@ieee.org.



MOVE PR Volunteers at IEEE- Latin America Microwave Conference (LAMC) 2025; (left to right) Hector Feliciano, Magdiel Mojica, Florencio Saez, and Loderay Bracero



MOVE PR display at IEEE- Latin America Microwave Conference (LAMC) 2025; Modular Kit equipment: power inverter, high-frequency radio, digital mobile radio, Starlink satellite internet and network equipment.