Lineworkers & Manufacturers Symposium

22 - 23 June, 2021
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Welcome message

Sophia Laurena Primus

A warm welcome to all delegates of the first-ever virtual Lineworkers and Manufacturers Symposium. A special welcome to the brotherhood of lineworkers and lineman supervisors of the Caribbean, the United States, and from around the world! The CARILEC family is very elated that you have decided to attend this symposium to network and share best practices and partake in a display of camaraderie with your fellow colleagues. We have witnessed your enthusiasm and zeal at this event when it was previously held as an in-person activity. We, therefore, invite you to exude that same spirit of camaraderie when you meet at the virtual booths or in the various chat rooms on the Whova App, during this event.

We have missed one year of this hallmark event; however, we can recover the time lost during this year’s virtual symposium. Our distinguished Sponsors have once again greatly supported this event, as they have always done in the past. We extend sincere gratitude to our Platinum sponsor: Jelco, and our Gold Sponsors: Altec and Koppers.

We encourage you to visit their virtual exhibition booths to discover updated practices, procedures, and techniques in the world of line construction and maintenance. Technology has assisted us in beating the odds of the pandemic, so let us ensure that we make ample use of the opportunities presented by this event.

Welcome once again and do enjoy the two (2) days of rich information sharing, networking, and capacity building.

Sophia Laurena Primus
Learning and Development Manager

https://www.carilec.org/event/lineworkers-manufacturers-symposium/#exhibitors
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LINWORKERS & MANUFACTURERS SYMPOSIUM

DAY 1
Tuesday 22 June, 2021

8:30 A.M. – 9:00 A.M.
Opening Ceremony

9:00 A.M. – 10:00 A.M.
Panel Discussion

10:00 A.M. – 10:30 A.M.
Music Break

10:30 A.M. – 12:30 P.M.
Conference Sessions

12:30 P.M. – 1:30 P.M.
Lunch

1:30 P.M. – 3:30 P.M.
Connect and Network

3:30 P.M. – 5:00 P.M.
Conference Sessions

DAY 2
Wednesday 23 June, 2021

9:00 A.M. – 11:00 A.M.
Glove Training

11:00 A.M. – 11:30 A.M.
Music Break

11:30 A.M. – 12:30 P.M.
Panel Discussion

12:30 P.M. – 1:30 P.M.
Lunch

1:30 P.M. – 3:30 P.M.
Connect and Network
Since 1929, Altec has been committed to supplying customers with industry-leading products and services. When we deliver a product, we are committed to supporting that equipment throughout its lifecycle, including service support, tools and accessories, and training. Our safety team has helped utility companies around the world create and implement a strong safety culture. Let us help you today!
Opening Ceremony

Tuesday 22 June, 2021 • 8:30 A.M. – 9:00 A.M.

Welcome Remarks
Sophia Laurena Primus
Learning and Development Manager, CARILEC
8:35 a.m. – 8:40 a.m.

Opening Remarks
Dr. Cletus Bertin,
Executive Director, CARILEC
8:40 a.m. – 8:45 a.m.

Platinum Sponsors Remarks
Kat Clemmons Lea
VP Sales and Marketing, JELCO
8:45 a.m. - 8:55 a.m.

Gold Sponsors Remarks
Bryan Harvey
International Sales Manager, Koppers Utility and Industrial Products

Tim Self
International Live Line Training and Safety Specialist, ALTEC
8:55 a.m. – 9:00 a.m.

Vote of Thanks & Housekeeping
Nicole JeanBaptiste-Emmanuel
Learning and Development Officer, CARILEC
Panel Discussion - The Impact of the Pandemic on the functions of the Line worker: Challenges and Lessons Learnt

9:00AM - 10:00AM, JUN 22

Theme Synopsis

The Covid19 pandemic had far-reaching effects on all industries including the electric utility industry and the various systems within the utilities. No doubt, the line workers and their functional areas were impacted in ways that have not been spoken about.

1. Some of the issues to be interrogated in the panel discussion are as follows:

   • What were the adjustments in mindset and work practices that the Lineworkers had to accommodate?
   • How were close contact work-areas remodeled to accommodate the protocols?
   • How did line workers respond to the varying challenges and demands placed on them in this new and unfamiliar work environment?
   • How did the changes impact the budget?
   • What role did the Lineworker supervisors play in settling the employees to work?
   • How did the utilities become creative in managing the unsettling environment brought on by the pandemic so Lineworkers could feel supported?

2. What were the lessons learnt based on the experiences?

3. How can these lessons be applied to future uncertain change?

Moderator

Lebert Frankson
Electro-Mechanical Supervisor, Jamaica Public Service Company Limited

Panelists

Arturo Mesa Carricarte
Manager Training & Development, Jamaica Public Service Company

Dani Burton
Electrical Engineer in the ET&D Department, Dominica Electricity Services Ltd

Michael Ambrose
Equipment & Maintenance Liveline Supervisor, St. Lucia Electricity Services Ltd

Linus Eugene
Construction Supervisor, St. Lucia Electricity Services Ltd

Break

10:00AM - 10:30AM, JUN 22

Wood pole processing and preventative treatment

10:30AM - 11:30AM, JUN 22

Overview: Wood pole production & preservative treatments

1. How to make a quality treated wood pole
   • Quality timber selection in the field.
   • Straightness (thinning
   • Taper
   • Age & growth
   • Density
   • Length
   • Diameter
   • Species (In USA mostly; Southern Yellow Pine and Douglas Fir)
   • Marking the trees
   • Proper timber management is key to high-quality trees. (Thinning timber track, periodic control burns to remove ground overgrowth)

2. Processing the wood poles (governed by ANSI, American National Standards Institute)
   • Harvesting the pole in the field.
   • Machine peeling, inner bark & outer bark
   • Green pole inspection
   • ANSI Standards for wood poles
• Common defects per ANSI
• Class sizes and Class Loads
• Green pole framing
• Kiln drying (slow is better, moisture content less than 25%)
• Why is moisture content so important?
• Dry poles make a great treated pole (half full only half treated)
• Pole Treatment & Theory (governed by AWPA, American Wood Protection Association) Full cycle pressure treatment
• Closing cylinder, excellent seal is required
• Strong initial vacuum
• Flooding cylinder with chemicals
• Types of chemicals available
• Pressurizing the cylinder: 60-80 PSI
• Final vacuum
• Waiting for poles to cure or fixation
• Final Treatment inspection

Moderator
Wade Boyce
The Barbados Light & Power Company Ltd

Speaker
Bryan Harvey
International Sales Manager, Koppers Utility & Industrial Products Inc

Insulate, Isolate, and Equi-Potential
11:30AM - 12:30PM, JUN 22

The presentation will cover the three primary methods for protecting oneself while performing live-line maintenance. The methods covered will be Insulate, Isolate, and Equi-Potential; Insulation provides a protective material between the worker and the potential; Isolation removes the working from all electrical protentional; and Equi-Potential places the worker at the same potential so there is no current flow. The tools used to achieve these three methods will be discussed. These will include hotsticks, rubber goods (cover-up, gloves, etc.) and equi-potential equipment, as well as other equipment such as voltage detectors. There will be an opportunity for the attendees to ask questions about the specific applications they encounter.

Moderator
Wade Boyce
The Barbados Light & Power Company Ltd

Speakers
Kyle Broyles
Live Line Demonstrator/Trainer, CHANCE

Billy Webber
Training Manager/Demonstrator
“Chance” Lineman Grade Tools, Hubbell Power System

Lunch
12:30PM - 1:30PM, JUN 22

Connect and Network
1:30PM - 3:30PM, JUN 22

Knots and Rope Slicing
3:30PM - 5:00PM, JUN 22

This class discusses rope use in the utility industry environment. Things covered will include: ultimate breaking strength, safe working load, types and construction of ropes, methods of splicing ropes, inspecting ropes, and ways that ropes can be used to control weights and tensions and also help mitigate hazards.

Moderator
Fornelio Forster
Manager Distribution Division, N.V. Energiebedrijven Suriname

Speaker
Brady Hansen
Journeyman Lineman and CUSP, JELCO
Day 2 - June 23rd

Glove Training
9:00AM - 11:00AM, JUN 23

Overview:
Staying insulated and isolated from all energized equipment and grounds is critical when working on live powerlines. In this 2-hour presentation, Tim Self, Altec Live Line Training and Safety Specialist at Altec Worldwide, will discuss the basic principles for working on energized lines using insulating and isolating equipment. The presentation will cover electrical theory, the effects of electricity on the body, Work Plan development, safe work procedures, communication, concentration, and maintenance and inspection of tools and equipment. This presentation also addresses how to maintain insulation and isolation by using appropriate body position and safe cover-up practices.

The Goals:
• Understand the Electrical Theory of Insolation and Isolation
• Understand the Effect of Electricity on the Body
• Understand the Safe Work Procedures Set by OSHA for Gloving
• Learn How to Develop and Execute a Strong Work Plan
• Learn the Proper Use, Inspection, and Storage of Cover-up and PPE

Theory:
• Electrical Theory of Insolate and Isolate
• Electricity’s Effect on the Human Body
• Effects of a Flash

Safe Work Procedures:
• OSHA Regulations
• What and Who is Qualified
• Training and Re-training
• PPE and Cover-up

Planning the Job and Job Brief:
• Work Plan Development
• Job Briefing
• Pre-use Inspections

Work Plan Execution:
• Body Positioning
• Cover-up
• Qualified Observer
• Post Job Review

Moderator
Nicole Jeanbaptiste-Emmanuel
Learning and Development Officer, CARILEC

Speaker
Tim Self
International Live Line Training and Safety Specialist, ALTEC

Break
11:00AM - 11:30AM, JUN 23

Panel Discussion: The shortage of line workers in the Caribbean: Impact and Solutions.
11:30AM - 12:30PM, JUN 23

Lineworkers in the Caribbean have long been a sought-after gem by line worker Contractors in the USA and Canada. Utilities spend a sizable budget to train and retain line workers only to lose them to seemingly more highly paid markets. The situation has become starker when utilities complain that their line worker, on a disaster restoration trip to another island did not return but instead became a new employee at a utility on that island. The problem is dire when one considers that we do not have a line worker training institution
in the Caribbean and that the responsibility of line worker development is that of the utility. This panel of esteemed technical trainers will discuss the following points:

- What factors contribute to Lineworker shortage
- what's the impact of Lineworker shortage on the Utilities and the industry as a whole How do utilities cope with the shortage?
- Poaching Lineworkers! How can we end it?
- How can the Caribbean use poaching to serve the utilities?
- How can CARILEC Help put an end to the shortage of Lineworkers?

Moderator
Sophia Laurena Primus
Learning & Development Manager, CARILEC

Panelist
Wade Boyce
Technical Trainer, The Barbados Light & Power Company Ltd

Nelson Stapleton
Acting Transmission and Distribution Manager, Nevis Electricity Company Ltd

Trevor Gumbs
Transmission & Distribution Foreman (Lines), British Virgin Islands Electricity Corporation

Donaldson Hamlet
Transmission and Distribution Foreman (Lines), British Virgin Islands Electricity Corporation

Rodney Baird
Superintendent, Works Methods and Training, Belize Electricity Limited

Lunch
12:30PM - 1:30PM, JUN 23

Connect and Network
1:30PM - 3:30PM, JUN 23

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- Dominica Electricity Services Limited
- Grenada Electricity Services Ltd
- Jamaica Public Service Company Ltd
- JELCO
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GUY RAZ
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RAINN WILSON
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CRIS CARTER
Pro Football Hall of Fame Wide Receiver and TV Commentator.

LIZ BOHANNON
Founder, Sseko Designs. Author of Beginner’s Pluck.

AUSTIN CHANNING BROWN
Speaker and Author of New York Times Bestseller I’m Still Here.

ANDY STANLEY

MICHAEL C. BUSH
CEO, Author, A Great Place to Work for All.

TODD HENRY
Founder, Accidental Creative. Author of The Motivation Code.

DENI TATO
CEO, Corporate Consciousness. Executive Enneagram coach.

CHUCK MINGO
Founder of Living UNDIVIDED.

SUNNY PARR
Executive Director of the Kroger Foundation.

DAVID BAKER
President & CEO of the Pro Football Hall of Fame.
CARIBBEAN VIRTUAL GIS WORKSHOP 2021
GROWTH IN THE ADVERSITY

28-30 JUNE 2021
10:00 TO 2:00 PM
LIVE ON ZOOM

Topics Include

Learn and share the skills to:
- Streamline workflows in your organization
- Manage assets & situational awareness
- Leverage emerging trends in the industry
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## Save The Dates

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Utility Speed Networking Series</td>
<td>April - Oct, 2021</td>
</tr>
<tr>
<td>Chief Executive Officers’ &amp; Leadership Conference</td>
<td>May 25th - 26th, 2021</td>
</tr>
<tr>
<td>Lineworkers’ &amp; Manufacturers’ Symposium</td>
<td>June 22nd - 23rd, 2021</td>
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<tr>
<td>Engineering &amp; Procurement Conference &amp; Exhibition</td>
<td>July 26th - 28th, 2021</td>
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<tr>
<td>Leadercast Caribbean (Live Broadcast!)</td>
<td>August 11th, 2021</td>
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<tr>
<td>Woman in Renewable Energy (WIRE) Meeting</td>
<td>September, 2021</td>
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<tr>
<td>Renewable Energy &amp; Smart Grid Conference &amp; Trade Show</td>
<td>September 29th - 30th, 2021</td>
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<tr>
<td>Cyber Security Seminar</td>
<td>November 9th - 10th, 2021</td>
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<td>Geographic Information Systems Symposium</td>
<td>November 15th, 2021</td>
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