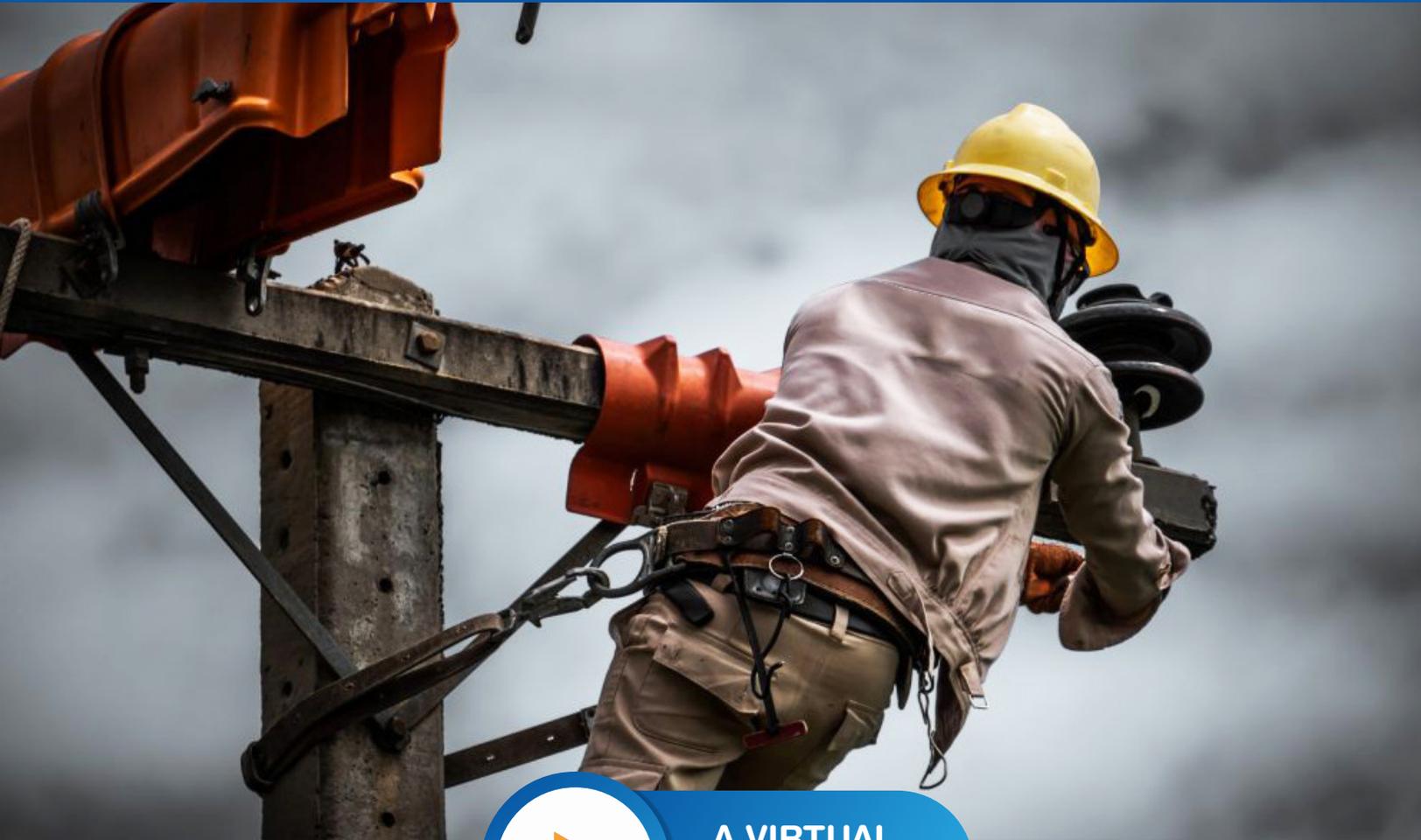




# CARILEC

An Association Of Electric Energy Solution Providers



A VIRTUAL  
WORKSHOP

## Lineworkers & Manufacturers Symposium

22 - 23 JUNE, 2021



# JELCO

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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 lineworker 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.

A handwritten signature in black ink that reads "Sophia Laurena Primus". The signature is written in a cursive, flowing style.

**Sophia Laurena Primus**  
**Learning and Development Manager**



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**website: <https://koppersuip.com/>**



# **LINEWORKERS & 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

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Connect and Network



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# 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

# Day 1 - June 22nd

## 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 AWWA, 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 potential; 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



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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**

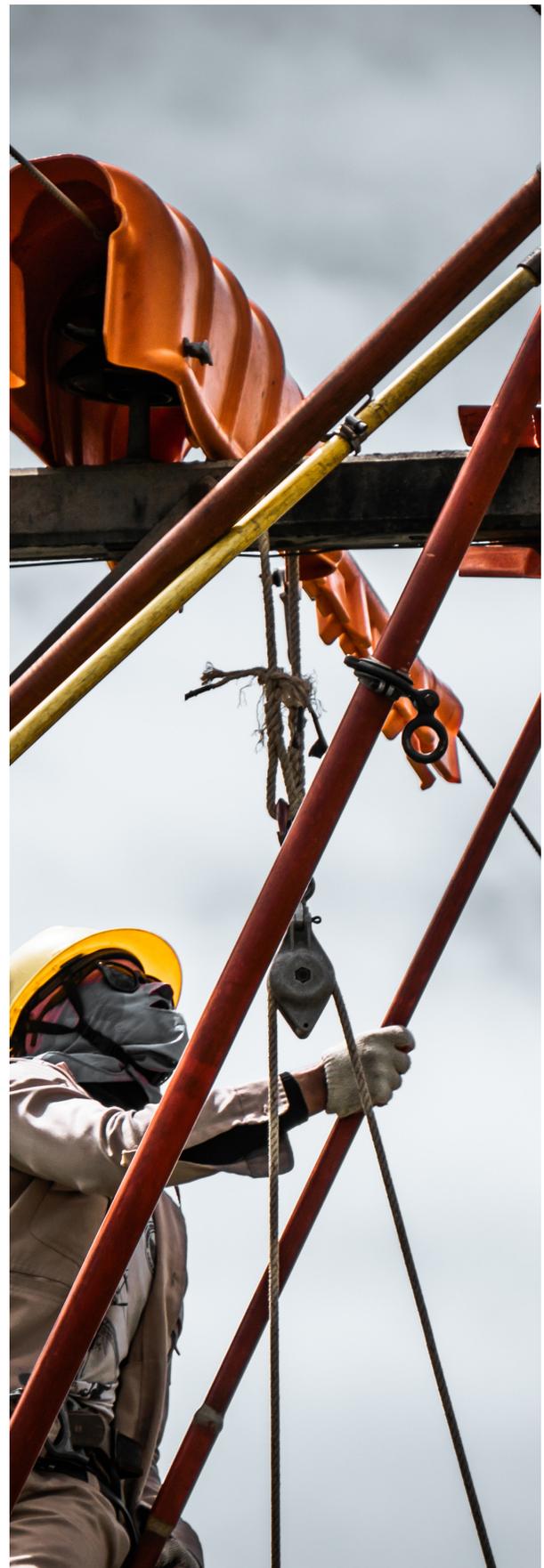
Superintendent, Works Methods and Training,  
Belize Electricity Limited

## Lunch

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

## Connect and Network

1:30PM - 3:30PM, JUN 23





26 - 28 JULY, 2021  
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Theme: Reformulate the Energy Future: Rethink. Refocus. Reshape

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# TODAY





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- Koppers Utility & Industrial Products Inc
- Nevis Electricity Company Ltd
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# shift

AUGUST 11, 2021

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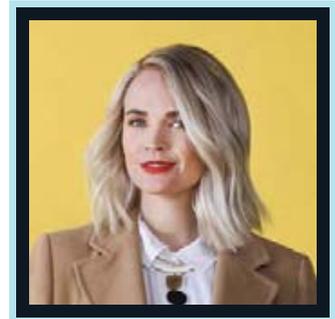
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**MICHAEL C. BUSH**  
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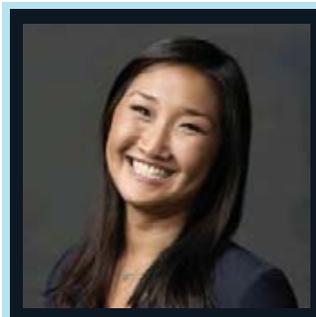
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Founder, Accidental Creative. Author of *The Motivation Code*.



**DENI TATO**  
CEO, Corporate Consciousness. Executive Enneagram coach.



**CHUCK MINGO**  
Founder of Living UNDIVIDED.



**SUNNY PARR**  
Executive Director of the Kroger Foundation.



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President & CEO of the Pro Football Hall of Fame.



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28-30 JUNE  
2021

10:00 TO  
2:00 PM

LIVE ON  
ZOOM



DAVE WILLIAMS  
GIS CONSULTANT

## 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

## Events

April - Oct, 2021

Utility Speed Networking Series

May 25th - 26th, 2021

Chief Executive Officers' & Leadership Conference

June 22nd - 23rd, 2021

Lineworkers' & Manufacturers' Symposium

July 26th - 28th, 2021

Engineering & Procurement Conference & Exhibition

August 11th, 2021

Leadercast Caribbean (Live Broadcast!)

September, 2021

Woman in Renewable Energy (WIRE) Meeting

September 29th - 30th, 2021

Renewable Energy & Smart Grid Conference & Trade Show

November 9th - 10th, 2021

Cyber Security Seminar

November 15th, 2021

Geographic Information Systems Symposium

<https://www.carilec.org/events/>

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