Hosted by:

Platinum Sponsor & Welcome Reception Host:

www.1sourcesupplysolutions.com

Learning Session Hosts:

Welcome Reception September 24, 2019
Conference September 24-27, 2019
All conference sessions held at the Los Angeles Marriott Burbank Airport, Burbank CA

www.westernunderground.org
# Western Underground Committee General Conference Information

**September 24-27, 2019**

## Conference Events:

### Tuesday Activities:

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:30 pm - 3:15 pm</td>
<td>Preconference Tour</td>
<td>Burbank Water and Power – Ontario Substation</td>
</tr>
<tr>
<td>4:00 pm - 5:00 pm</td>
<td>Executive Board Meeting</td>
<td>TBD</td>
</tr>
<tr>
<td>5:00 pm - 7:00 pm</td>
<td>Welcome &amp; Networking Reception <em>Hosted by ONSOURCE SUPPLY SOLUTIONS</em></td>
<td>Academy 3</td>
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### Wednesday Activities:

<table>
<thead>
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<tbody>
<tr>
<td>7:30 am - 8:00 am</td>
<td>Registration</td>
<td>TBD</td>
</tr>
<tr>
<td>8:00 am - 9:00 am</td>
<td>Breakfast Learning Session <em>Hosted by KADDA</em></td>
<td>Academy 3</td>
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<tr>
<td>9:00 am – 10:00 am</td>
<td>General Opening Session</td>
<td>Academy 2</td>
</tr>
<tr>
<td>10:00 am – 10:45 am</td>
<td>Safety Subcommittee</td>
<td></td>
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<tr>
<td>10:45 am – 11:00 am</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>11:00 am -11:30 am</td>
<td>General Session (Continued)</td>
<td>Academy 2</td>
</tr>
<tr>
<td>11:30 am -12:15 pm</td>
<td>Mutual Problems</td>
<td>Academy 2</td>
</tr>
<tr>
<td>12:15 pm - 1:15 pm</td>
<td>Lunch &amp; Learn <em>Hosted by ARMORCAST PRODUCTS VOLTEK DIVISION</em></td>
<td>Academy 3</td>
</tr>
<tr>
<td>1:15 pm – 3:30 pm</td>
<td>Subcommittee Breakout Meetings</td>
<td>Various</td>
</tr>
<tr>
<td>4:30 pm - 7:30 pm</td>
<td>Manufacturers Showcase Expo</td>
<td>Academy 1,4,5,6</td>
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### Thursday Activities:

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<td>8:00 am - 9:00 am</td>
<td>Breakfast Learning Session <em>Hosted by MAKITA TOOLS</em></td>
<td>Academy 3</td>
</tr>
<tr>
<td>9:00 am – 9:50 am</td>
<td>General Session</td>
<td>Academy 2</td>
</tr>
<tr>
<td>9:50 am - 10:05 am</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>10:05 am – 10:50 am</td>
<td>General Session (Continued)</td>
<td>Academy 2</td>
</tr>
<tr>
<td>10:50 am – 12:00 pm</td>
<td>Mutual Problems</td>
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</tr>
<tr>
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<td>Lunch &amp; Learn <em>Hosted by MSI (MID STATE INSTRUMENTS)</em></td>
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</tr>
<tr>
<td>1:00 pm – 4:15 pm</td>
<td>Technical Tour – Gordon R. Howard Museum and West Coast Customs</td>
<td>Bus Pickup at Hotel</td>
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<tr>
<td>6:30 pm – 9:30 pm</td>
<td>WUC Fellowship Dinner</td>
<td>Flappers Comedy Club and Restaurant</td>
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### Friday Activities:

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<tbody>
<tr>
<td>8:00 am - 8:30 am</td>
<td>Breakfast Network Session <em>Hosted by WUC</em></td>
<td>Academy 3</td>
</tr>
<tr>
<td>8:30 am - 8:35 am</td>
<td>Moment of Silence for Fallen Comrades</td>
<td>Academy 2</td>
</tr>
<tr>
<td>8:35 am - 9:25 am</td>
<td>General Session</td>
<td>Academy 2</td>
</tr>
<tr>
<td>9:25 am - 9:40 am</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>9:40 am - 10:30 am</td>
<td>General Session (Continued)</td>
<td>Academy 2</td>
</tr>
<tr>
<td>10:30 am - 11:30 am</td>
<td>Mutual Problems</td>
<td>Academy 2</td>
</tr>
<tr>
<td>11:30 am</td>
<td>Conference and Meeting Adjourn</td>
<td>Academy 2</td>
</tr>
</tbody>
</table>
Welcome Reception
Los Angeles Marriott Burbank Airport
2500 North Hollywood Way, Burbank, CA 91505
Room Location: Academy Ballroom 3

Conference Layout
Los Angeles Marriott Burbank Airport

INTERNET CODE FOR MEETING ROOMS

WIFI Name: marriott_conference Network       Password: WESTERN
(Note: It is recommended that you turn off your firewall and VPN if you experience trouble connecting)
Tuesday, September 24

- 1:30pm – 3:15pm: **Pre-Conference Tour** to Burbank Water and Power New Ontario Substation – GIS 69kV to 12kV. (Information on this substation will also presented during the General Session).
  - Tour limited to 36 people.
  - Hard hats, safety glasses, closed toed shoes and long-sleeve FR shirt is REQUIRED. Bring if you can, if not, BWP will provide.
  - Walking tour – Substation located .4 mile from Marriott (.8 mile roundtrip).
    - 1:30pm  Meet in lobby of Marriott
    - 1:45pm  Leave Marriott to walk to substation
    - 2:00pm  Tour of substation
    - 3:00pm  Leave to walk back to Marriott
    - 3:15pm  Arrive back at Marriott

- 4:00pm – 5:00pm: **Executive Board Meeting**

- 5:00pm – 7:00pm: **Welcome & Networking Reception**  
  - Hosted by: **ONE SOURCE SUPPLY SOLUTIONS**
    - Website: [www.1sourcesupplysolutions.com](http://www.1sourcesupplysolutions.com)

Wednesday, September 25

- 7:30am – 8:00am: **Registration**

- 8:00am – 9:00am: **Breakfast Learning Session** for **UTILITY EMPLOYEES ONLY**  
  - Hosted by: **KADDAS Enterprises, Inc.**
    - Presenter: Natalie Kaddas, CEO, Max Fuentes, WCUSI, former Line Supervisor at SMUD and Patrick Scott, Director of Sales
    - Presentation: The following will be discussed; IEEE/ ASTM Standards and Guidelines for Wildlife Cover Solutions, VO Flammability Material Rating, Costs of Rebuilding vs. Retrofitting, DNA of Material Quality and Requirements for Todays’ Environment, Capabilities for Custom Utility Solutions via Open and Productive Collaboration.
    - Website: [www.kaddas.com](http://www.kaddas.com)

- 9:00am – 10:00am: **General Opening Session**
  - Past Chairperson Remarks – Jaime Pinedo, LADWP, WUC 2018 Chairperson (20 minutes)
  - Member Self Introductions and Years of Service – Kory Nichols, SRP, WUC 2019 Chairperson (20 minutes)
  - Recognition of Board Members
  - Eventquid App
  - Welcome Remarks – Jorge Somoano, General Manager Burbank Water and Power (20 minutes)
  - Host Recognition – Kory Nichols, SRP, WUC 2019 Chairperson
Wednesday, September 25 (continued)

- Platinum Sponsor: **ONE SOURCE SUPPLY SOLUTIONS** (20 minutes)
  - Presenter: James Frankenfield, Utility and EPC Contractor Account Representative
  - Website: [www.1sourcesupplysolutions.com](http://www.1sourcesupplysolutions.com)

- **10:00am – 10:45am: Safety Subcommittee**
  - Safety Chairperson: Rafael Rios
    - **Presentation:** Improving Crew Safety by Reducing Arc-Flash Energy
      (30-40 minutes followed by 10-15 minutes Q&A)
      - Presenter: David Hernandez, P.E., Manager T&D Engineering Burbank Water and Power
      - Description: Implementation of a “Maintenance Mode” station relay setting and other arc flash mitigation measures which drastically reduce the arc-flash energy potential on distribution lines and substation buses, resulting in safer working conditions for employees working on energized circuits.
    - 10:45am – 11:00am: BREAK

- **11:00am – 11:30am: General Session**
  - **Presentation 1:** Ontario Substation Project
    - Presenter: Erik Olsen, Principal Electrical Engineer-Substations, Burbank Water and Power
    - Description: Building of a 12kV GIS substation from Planning and Design to Energization.

- **11:30am – 12:15pm: Mutual Problems**
  - Closed Door session FOR UTILITY EMPLOYEES ONLY. Questions/concerns shall be reviewed in order received. Please email, Jun Golo: jgolo2@idahopower.com

- **12:15pm – 1:15pm: Lunch & Learn for UTILITY EMPLOYEES ONLY**
  - Hosted by **ARMORCAST PRODUCTS & ARMORCAST PRODUCTS VOLTEK DIVISION**
    - Presenter: Wally Sunna, Vahe Karamardian & Sean Gesell
    - Presentation: Armorcast Products Voltek Division has evolved their standard vault replacement system to a new product line focused on solving challenges with overcrowded underground vaults, or forced relocation of manhole entrances due to installation of rail lines or road expansions.
    - Website: [www_armorcastprod_com_and](http://www_armorcastprod_com_and)
      - [www.youtube.com/user/ArmorcastProducts](http://www.youtube.com/user/ArmorcastProducts)
Wednesday, September 25 (continued)

- 1:15pm – 3:30pm: **Subcommittee Breakout Meetings** (Afternoon refreshments will be served)
  - **Subcommittee 1 – Operations**
    
    **Chairperson:** Harry Nelson, Lineman Foreman, Imperial Irrigation District and Tom Fieldse, Technical Specialist, PWRD Construction Methods, SCE  
    
    - **Presentation 1: Vault Entry Safety Procedures and Requirements**
      
      - Presenter: Max Fuentes, Utility Consultant  
      - Description: This discussion will focus on the following: hazards associated with entering high voltage underground vaults, rules and regulations that are in place to ensure worker safety and methods and procedures for mitigating the hazards and risks involved while performing work in an underground vault.

  - **Subcommittee 2 & 3 – Engineering & Substructures**
    
    **Chairperson:** Steve Robles, Senior Electrical Engineering Technician, City of Riverside  
    
    - **Brief Review:** Updated WIC 2.15, up for Vote to Approve (1:15pm-1:30pm)  
      
      - Presenter: Mike Dyer, Executive Engineer, Salt River Project  
      - **Presentation 1: Advancement in Cable Accessories (1:30pm-2:25pm)**
        
        - Presenter: Dave Brehmer, Western US Sales Manager, Richards Manufacturing  
        
        - Description: Advancements and Integrations in Medium Voltage Cable Accessories (5kV-35kV), and Introduction of a Submersible Modular Insulated Secondary Busbar System  
      - **Presentation 2: Review of Metals, Corrosion in Vaults, Galvanic Corrosion Cause and Avoidance (2:35pm – 3:30pm)**
        
        - Presenter: Tim O’Regan, President, Electrical Materials Company  
        
        - Description: Discussion will focus on material characteristics of no-corrosion, non-conductivity (inserts, cable racking), galvanic corrosion deterrence methods and certain bimetallic combinations to avoid.

  - **Subcommittee 5 – Planning**
    
    **Chairperson:** Jun Golo, Principal Engineer Methods & Materials, Idaho Power Co.
    
    - **Presentation 1: Installation of the Pacific Direct Current Intertie (PDCI)**
      
      - Presenter: Ben Sanchez, T&D District Supervisor and Alan Romero, Senior Cable Splicer  
      - Description: Overview of the PDCI starting with the intertie capacity and route, discussion of the vaults, setting of the individual electrodes, ocean installation, cable connections between the vaults and laying of the cable from the shore to the vault array will be provide with a narrated video.
Wednesday, September 25 (continued)

- Subcommittee 5 – Planning (continued)
  - Presentation 2: Round Table
    - Description: Discussion items are as follows (additional items may be reviewed if time permits).
      - Returned materials from construction, reasons and why?
      - What is your Company’s process for streamlining returns?
      - What is your Company’s process for material replacements, use-up vs. obsolete?

- 4:30pm – 7:30pm: Manufacturers Showcase Expo

  Academy 1,4,5,6
MANUFACTURERS SHOWCASE EXPO
WEDNESDAY, SEPTEMBER 25, 2019
4:30PM – 7:30PM

PLATNIUM SPONSOR

OneSource
Supply Solutions

Learning Session Sponsors

Vendor Tables

MAYDWELL & HARTZELL
Sensorlink Corporation  Preferred Sales  Underground Sales LLC
Thursday, September 26

- 7:30am – 8:00am: **Registration**
- 8:00am – 9:00am: **Breakfast Learning Session (UTILITY EMPLOYEES ONLY)**
  - **Hosted by MAKITA TOOLS**
    - Presenter: Andrew Condino, Western Region Utility Manager and James Martin, National Utility Sales Manager
    - Presentation: Makita’s single-battery platform for utility power tools and the benefits of standardizing on a single-battery platform.
    - Website: [www.makitatools.com](http://www.makitatools.com)
- 9:00am – 9:50am: **General Session**
  - **Presentation:** Pole Fielding and Service Confirmations Using Survey 123
    - Presenter: Bill Wickersheim PMP GIS, Facility Technology Coordinator, Burbank Water and Power & Sven Knauth P.E., Electrical Engineering Associate, Burbank Water and Power
    - Description: Development of comprehensive pre-job field condition data collection and analysis utilizing an in-house customized Survey 123 application.
- 9:50am – 10:05am: **BREAK**
- 10:05am – 10:50am: **General Session (Continued)**
  - **Presentation:** 12kV Conversions and Crane Sets
    - Presenter: Calvin Clark P.E. PMP, Electrical Engineer, Burbank Water and Power & Brad Recker, Manager Electrical Distribution, Burbank Water and Power
    - Description: Burbank Water and Power has been re-building its old 4kV overhead system to 12kv standards and converting areas to the more efficient 12kV voltage for 30 years. This presentation will provide lessons learned and construction process improvements, including setting back yard poles by crane, which have led to significant reductions in project costs.
- 10:50am – 12:00am: **Mutual Problems**
  - Closed Door session for **UTILITY EMPLOYEES ONLY**. Questions/concerns shall be reviewed in order received. Please email, Jun Golo: jgolo2@idahopower.com
- 12:00pm – 1:00pm: **Lunch & Learn (UTILITY EMPLOYEES ONLY)**
  - **Hosted by MSI (MID STATE INSTRUMENTS) AND FLIR**
    - Presenter: Darryl Mendivil
    - Website: [dlm@msisales.com](mailto:dlm@msisales.com)
- 1:15pm – **Technical Tour (Limited to 110 participants)**
  - **Gordon R. Howard Museum**, operated by the Burbank Historical Society. Tour will provide a history of Burbank, from war-time aircraft manufacturing to movie studios. Also included is a tour of **West Coast Customs**, where attendees will be provided opportunity to see industry-leading car customization services ranging from simple vinyl wraps to completely original, one-off vehicle builds. Tour of each location will last approximately 1 hour.
Thursday, September 26 (continued)

Technical Tour (Continued)

- 1:00pm – Bus arrive at hotel for loading
- 1:15pm – Bus depart from hotel
- 1:30pm – Tour begins
- 2:45pm – Bus depart for second location
- 3:00pm – Tour begins
- 4:15pm – Bus returns to hotel

- 6:30pm – 9:30pm: **WUC Fellowship Dinner**

  Flappers Comedy Club and Restaurant
  102 East Magnolia Blvd, Burbank CA
  www.flapperscomedy.com
  Don’t forget your dinner ticket!

Friday, September 27

- 8:00am – 8:30am: **Breakfast Network Session**
  o Hosted by WUC

- 8:30am – 8:35am: **Moment of Silence for Fallen Comrades**

- 8:35am – 9:25am: **General Session**
  o **Presentation:** Hillside Vault Replacement
    - Presenter: Sven Knauth P.E., Electrical Engineering Associate, Burbank Water and Power
    - Description: Development of a project to convert failing underground vaults containing transformers to pad-mounted transformers in an RUD.

- 9:25am – 9:40am: **BREAK**

- 9:40am – 10:30am: **General Session (Continued)**
  o **Presentation 1:** Managing Underground Substructures
    - Presenter: Calvin Clark P.E. PMP, Electrical Engineer, Burbank Water and Power
    - Description: Burbank Water and Power manages close to 1,500 underground substructures in their underground distribution system. This presentation will provide a summary of the utility’s assessment and prioritization techniques as well as some of the new replacement technologies used.

- 10:30am – 11:30am: **Mutual Problems**
  Closed Door session for **UTILITY EMPLOYEES ONLY**. Questions/concerns shall be reviewed in order received. Please email, Jun Golo: jgolo2@idahopower.com

- 11:30am: **Conference and Meeting Adjourn**

The WUC Board is still in need of a host for the 2020 Spring Conference. If your utility is interested, please contact a WUC Board Member