



WESTERN UNDERGROUND COMMITTEE

Hosted by:



Platinum Sponsor & Welcome Reception Host:

Thomas & Betts

A Member of the ABB Group

Learning Session Hosts:



Welcome Reception September 12, 2017

Conference September 13-15, 2017  ANDALUZ

All conference sessions held at the Hotel Andaluz, Albuquerque, NM

www.westernunderground.org



WESTERN UNDERGROUND COMMITTEE
 GENERAL CONFERENCE INFORMATION
 September 13-15, 2017



CONFERENCE EVENTS

LOCATION

Tuesday Activities:

12:30-4:15p Pre-Conference Tour at T&B Elastimold Manufacturing Plant (**Utility Members ONLY**)
 5:00 – 7:00p Welcome & Networking Reception - **Barcelona**
 Hosted by: **ABB/ Thomas & Betts**

Wednesday Activities:

7:30a Registration **Barcelona**
 8:00a Breakfast Learning Session Hosted by **ABB/Thomas & Betts** **Barcelona**
 9:00a General Session Opening **Barcelona**
 9:30a Safety Sub-Committee **Barcelona**
 10:25a General Session **Barcelona**
 11:45a Lunch & Learn hosted by **Milwaukee Tools** **Barcelona**
 1:00p Subcommittee 1 Operations **Valencia**
 Subcommittee 2&3 Engineering & Substructures **Majorca**
 Subcommittee 5 Planning **Catalina**
 4:30p Manufacturer/Supplier Exhibits Event **Barcelona**

Thursday Activities:

7:30a Registration **Barcelona**
 8:00a Breakfast Networking Session Hosted by **IMCORP** **Barcelona**
 9:00a General Session **Barcelona**
 11:30a Lunch & Learn hosted by **Aluma-Form, Inc.** **Barcelona**
 1:15p Technical Tour: **PNM Facilities**
 5:30p Fellowship Dinner: **Nuclear Museum**

Friday Activities:

8:00a Networking Breakfast hosted by **WUC** **Barcelona**
 8:30a Safety Session **Barcelona**
 10:00a Training & Development Ad Hoc **Barcelona**
 11:30a Conference and Meeting Adjourn

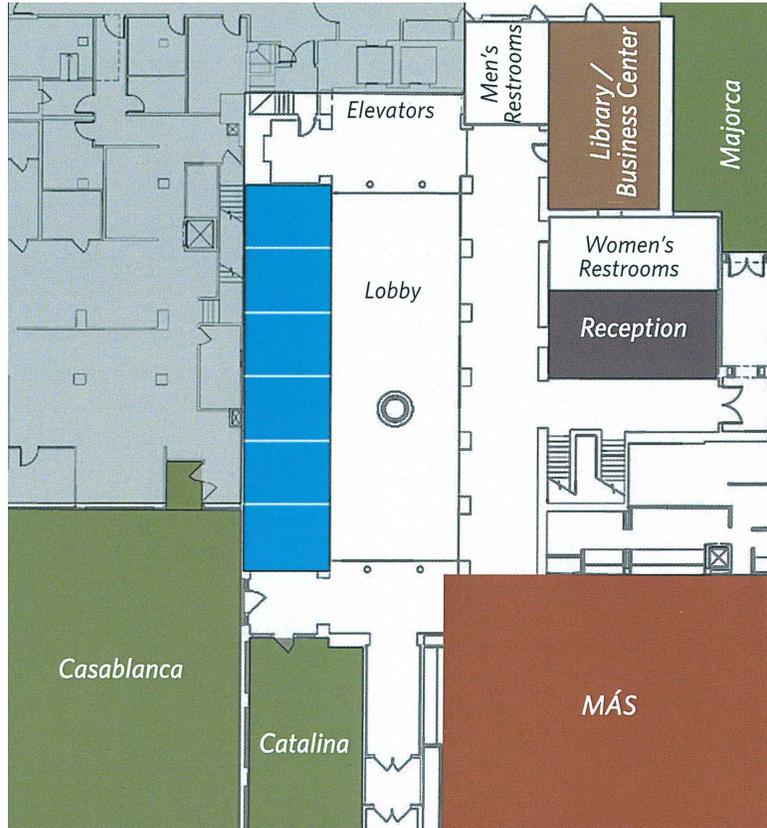


WESTERN UNDERGROUND COMMITTEE
 GENERAL CONFERENCE INFORMATION
 September 13-15, 2017

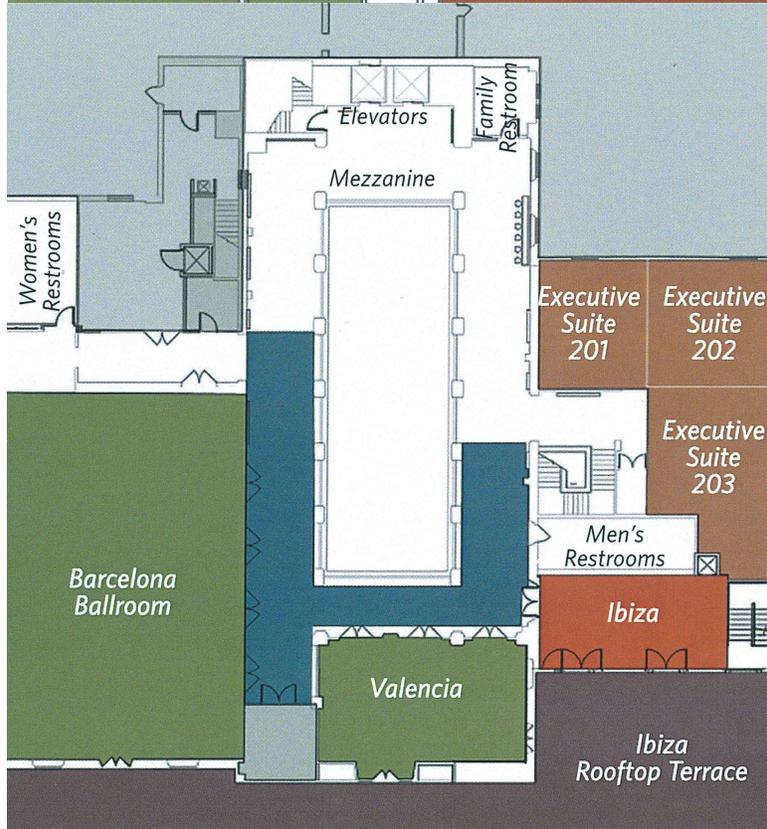


CONFERENCE LOCATIONS

1st Floor



2nd Floor



ANDALUZ



WESTERN UNDERGROUND COMMITTEE
GENERAL CONFERENCE INFORMATION
September 13-15, 2017



Wednesday, September 13

7:30 am **Registration** Location: **Barcelona Lobby**

8:00 am **Breakfast Learning Session – ABB/ Thomas & Betts** Location: **Barcelona**
Presenter: Michael T. Valenza, Sr. Product Marketing Manager, Cable Accessories

General Session

9:00 – 9:30 am **Welcome and Opening Remarks** Location: **Barcelona**

- ▶ Member Self Introductions and Years of Service – Alan Kasanow-SCE, WUC Chair
- ▶ Recognition of Board Members
- ▶ Host Recognition – Alan Kasanow-SCE, WUC Chair
- ▶ Welcome Remarks – Tom Fallgren – PNM-NM Operations Vice President

9:30 – 10:15 am **Safety Sub-Committee**

Safety Chair: Rafael Rios

◆ **Presentation 1: Slips, Trips and Falls Simulator (20 mins)**

Presenter: Elaine Lucero, PNM

Training of employees in mitigation of risks associated with slips, trips, and falls through education related to causes and avoidance strategies, as well as use of a simulator designed to provide experience in avoidance of these hazards.

◆ **Presentation 2: PNM Safety Day (20 mins)**

Presenter: Morgan DeMaroney, PNM

Discuss some of the activities that have been done and are being done for the current Safety Day. We will also discuss the thought process around Safety Day and what we have seen as far as effects and feedback.

10:15 – 10:25 am **Break** Refreshments – Location: **Barcelona**

10:25 – 11:15 am **General Session:**

◆ **Presentation 1: New Mobility Tablets (20 mins)**

Presenter: Andrew Gurule, PNM

Tablets tested through a pilot program will be discussed as well as pool-style checkout system and securing of devices, BPM and Service Entrance Inspections and Future Mobility Efforts.

Continued next page...



WESTERN UNDERGROUND COMMITTEE
GENERAL CONFERENCE INFORMATION
September 13-15, 2017



Wednesday Continued...

◆ **Presentation 2: Bird Program (20 mins)**

Presenter: Sharon Brown, PNM

Utilities must comply with state and federal laws to protect birds. PNM has been active in avian protection since the early 1980s and prepared its first Avian Protection Plan (APP) in 2006 to maintain a more bird safe and reliable system.

11:15 – 11:45 am **Mutual Problems**

Closed Door session **FOR UTILITY EMPLOYEES ONLY**. Questions/concerns shall be reviewed in order as received. Please email Jun Golo: (jgolo2@idahopower.com)

11:45 – 1:00 pm **Lunch & Learn for Utility Employees Only**

Location: **Barcelona**

Hosted by: Milwaukee Tool

Presentation: Improving Safety and Increasing Productivity through Power Tools

Presenter: Sarah Hall, Trained Technical Specification Manager, Milwaukee Tool

1:00 – 3:30 pm **Sub-Committee Breakout Meetings**

Afternoon refreshments will be served.

Sub-Committee 1: Operations

Location: **Valencia**

Chair: Tom Fieldse, Technical Specialist, PWRD Construction Methods - Southern California Edison

◆ **Presentation 1: The Theory behind Equipotential Grounding**

Presenter: Jeff Kopp, Product Manager, Chance Lineman Tools, Safety Products

This presentation will follow the science behind creating an equipotential zone so the worker does not feel a fatal rise of energy if the line was to be energized.

◆ **Presentation 2: The Application of the Equipotential Grounding Theory**

Presenter: Jeff Kopp, Product Manager, Chance Lineman Tools, Safety Products

This presentation will show the practical application of equipotential grounding.

Continued next page...



WESTERN UNDERGROUND COMMITTEE
GENERAL CONFERENCE INFORMATION
September 13-15, 2017



Wednesday Continued...

Sub-Committee 2&3: Engineering & Substructures

Location: **Majorca**

Chair: Mike Dyer, Executive Engineer, Salt River Project

◆ **Presentation 1: Concentric Neutral Corrosion (1-hour)**

Presenter: Glen Bertini - President of Novinium

◆ **Presentation 2: Albuquerque Rapid Transit Pole Relocation (30 mins)**

Presenter: Chris Budd, PNM

This presentation will detail PNM's work in the relocation of its facilities along Central Ave. between Coors Blvd and Louisiana Blvd. in support of the City of Albuquerque's Rapid Transit Project. Discussion will include the design, customer service relocations, and street lighting issues.

◆ **Presentation 3: Electric Buses (30 mins)**

Presenter: Sara Stratton, PNM

In a time of unstable petroleum costs and heightened environmental concerns, many companies are considering converting their fleets to electric to reduce costs and environmental impacts. Converting fleet operations to electric vehicles not only allows for cost savings but it also allows for companies to become a leader in the community when it comes to supporting the environment and clean transportation technologies. This presentation will discuss the benefits of converting to electric and it will review the City of Albuquerque's Electric Bus Project.

Sub-Committee 5: Planning

Location: **Catalina**

Chair: Elena DeStefano, Associate Electrical Engineer, City of Riverside - Public Utilities

◆ **Presentation 1: Cable Testing (30 mins)**

Presenters: Andrea Contreras and Valerie McCoy, PNM

Presentation on the process that PNM went through to get the UG cable testing program implemented and challenges faced to meet the goals of the project. Discussion of the initial requirements of the program, team requirements, reporting needs, evaluation process, replace or repair process and then the final documentation needed to accurately map and document what was completed. Discussion of the training and reporting required to accurately access the segments of cable that are tested and evaluate whether they need to be replaced or repaired. Discussion of the interaction needed with IMCORP to accurately meet the project requirements. Discussion of how the process is working, improvement opportunities and the future direction that PNM will be going with this program.

Continued next page...



WESTERN UNDERGROUND COMMITTEE
GENERAL CONFERENCE INFORMATION
September 13-15, 2017



Wednesday Continued...

◆ **Presentation 2: Facebook (30 mins)**

Presenters: Paul Lopez and Manuel Sanchez, PNM

This presentation will review initial PNM response to the Economic development team and high level assumptions used to introduce sites to the Facebook project team, then review high level improvements needed to the transmission system in the Los Lunas area chosen by the Facebook project team, overall design of the station site, and status of actual construction activities that will continue thru the first part of 2018.

◆ **Presentation 3: UGTAR Feeder Installation Process (30 mins)**

Presenter: Paul Dunagan, PNM

This presentation will go thru the process required for a Transition memo to be implemented from the plan stage thru construction.

4:30 – 7:30 pm **Manufacturer/Supplier Exhibits and Hospitality**

Location: **Barcelona**

Please stop by the booth of our Platinum Sponsor:



Please stop by the booths of our Learning Session Hosts:





WESTERN UNDERGROUND COMMITTEE
GENERAL CONFERENCE INFORMATION
September 13-15, 2017



Thursday, September 14

7:30 am **Conference Registration**

8:00 am **Breakfast Learning Session – IMCORP**

Location: **Barcelona**

Identifying Good & Bad Cable Insulation First, Overcoming Reliability Program Inefficiencies

Presenter: Wayne Chatterton, Sr. Applications Engineer, IMCORP

General Session

9:00 – 9:15 am **Reconvene General Session**

Location: **Barcelona**

Administrative Items:

- ▶ Approval of Minutes & Treasurer’s Report – Jaime Pinedo, LADWP, Vice Chair/Treasurer
- ▶ Executive Board Report – Alan Kasanow, SCE, WUC Chair
- ▶ Technical Tour & Fellowship Dinner Details – PNM

9:15– 10:00 am **General Session:**

◆ **Presentation 1: Maximo – Ethan Giedraitis, PNM (40 mins)**

PNM’s transition to Maximo for transmission and distribution use.

10:00 – 10:15 am **BREAK**

Refreshments location: **Barcelona**

10:15 – 11:00 am **General Session:**

◆ **Presentation 2: Roof Top Solar (20 mins)**

Presenter: Anthony Bueno, PNM

Presentation will discuss PNM’s interconnection program and process, provide a few program statistics; how many customers are interconnected, total interconnected capacity and how many PNM applications are received in a month, PNM’s new online application (paperless) process and the efficiencies we have seen since we converted.

◆ **Presentation 3: Utility-Scale Solar (20 mins)**

Presenter: Gary Barnard, PNM

NM’s new generation including renewables with a focus on solar. It will discuss how PNM is meeting its RPS requirements and the challenges associated with that effort.

Continued next page...



WESTERN UNDERGROUND COMMITTEE
 GENERAL CONFERENCE INFORMATION
 September 13-15, 2017



Thursday Continued...

11:00 – 11:30 am **Mutual Problems**

Closed Door session for utility attendees only. Questions/concerns shall be reviewed in order as received. Please email Jun Golo: (jgolo2@idahopower.com)

11:45 – 1:00 pm **Lunch & Learn for Utility Employees Only** – Location: **Barcelona**
Hosted by: Aluma-Form Inc.
 Presenter: Kevin Anderson, Regional Manager - Aluma-Form

1:15 – 4:00 pm **Technical Tours of PNM Facilities:**

- ◆ Power Operations
- ◆ Distribution Operations Center
- ◆ Trips, Slips & Falls Simulator

Attire: Please dress in comfortable clothing with close-toed shoes.

MUST WEAR WUC BADGE

Transportation: Shuttle service from the Hotel Andaluz - 40 People Max – 20 on Each Bus
Times may not be exact depending on traffic.

***Tour Details:**

Bus 1 (20 People)

- 1:15 - 1:30 - Bus to PNM Service Center
- 1:30 - 2:30 - Simulator/Distribution Operations Center
- 2:30 - Bus to Power Operations
- 2:45 - 3:45 - Tour Power Operations
- 3:45 - Bus Back to Hotel Andaluz

Bus 2 (20 People)

- 1:15-1:30 - Bus to Power Operations
- 1:30-2:30 - Tour Power Operations
- 2:30 - Bus to PNM Service Center
- 2:45 - 3:45 - Simulator/Distribution Operations Center
- 3:45 - Bus Back to Hotel Andaluz

5:30 pm **WUC Fellowship Dinner: Nuclear Museum**

Location: **601 Eubank NE,
 Albuquerque, NM 87123**

DON'T FORGET YOUR DINNER TICKET



WESTERN UNDERGROUND COMMITTEE
GENERAL CONFERENCE INFORMATION
September 13-15, 2017



Friday, September 15

8:00 am **Breakfast Networking Session** Hosted by: **WUC** Location: **Barcelona**
8:25 am **General Session** Location: **Barcelona**
Moment of silence for fallen comrades

8:30-9:15am **General Session**

◆ **Presentation 1: Wind Integration**
Presenter: Jeff Mechenbier, PNM

New Mexico has an abundance of sunshine, wind and geothermal resources, making it a natural location for renewable energy production. New Mexico is ranked second in the nation for potential solar-generated electric power production and tenth in wind potential. This presentation will discuss the renewable energy development in New Mexico.

9:30-9:45 am **BREAK**

9:45-10:30 am **Training and Development Sub-Committee**

◆ **Presentation 1: Data Collection Techniques – The Importance of Accurate Field Notes**
Presenter: Gary Hironimus, Sr. Engineering Technician City of Riverside Public Utilities

Thinking of Engineering plans as “legal documents” results in fewer change orders, fewer cost overruns, fewer headaches...but in order to produce plans that can stand up in court, we must start with an accurate real-world base map. This presentation shows how to collect field data in a way that is efficient, clear and easy to understand, and repeatable, but most importantly, thorough and accurate.

10:30-11:30 am **Training & Development Mutual Problems** – Open Forum *for WUC Utility Members ONLY*

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

Next Meeting/Conference to be held in Roseville, CA
Spring 2018
March 13-16, 2018