

October, 2019



Mission Statement

The 7x24 Exchange Northwest Chapter's mission is to provide an open educational forum dedicated to the continuous improvement and increased awareness of data center reliability by focusing on the key disciplines of design, construction, maintenance, security and management with the goal of obtaining continuous data center operations.

www.7x24northwest.org

**2019 Fall Symposium and Chapter Meeting
November 12, 2019**

Agenda

Caterpillar Update, Lithium Ion Safety, High Altitude Electromagnetic Pulse Risk, Top 10 Data Center Trends



Hosted by Puget Sound Energy - PSE

<http://www.pse.com>

Date & Time:

Tuesday, November 12 3:30 pm – 7:30 pm

Location:

Puget Sound Energy
EST Auditorium
355 110th Ave NE
Bellevue, WA 98004

Agenda:

3:30 pm

Open Networking

4:00 pm

Welcoming Remarks, Announcements

4:10 pm

Sponsor Presentation
Caterpillar Update and Trends
Will Barnes, Power Generation Sales
N C Power Systems

4:50 pm

Lithium Ion Safety – Reviewing the NFPA and IFC Code Updates
Eric Hill, Energy Storage and Systems Manager for Alpha Technologies and Outback Power, an EnerSys Company
Energys

- 5:20 pm **Estimating High Altitude Electromagnetic Pulse (HEMP)
For Power Utilities**
*Doug Bors, President
Sophometrics*
- 6:00 pm **Refreshments**
- 6:30 pm **Top Ten Data Center Industry Trends**
*Orlando Dolojan, Director of Client Engagement-North America
Uptime Institute*
- 7:00 pm **Adjourn**

RSVP Today!

Send your RSVP to Jim Svoboda at AC Power: jim@acpower.com Phone: 425.885.7493

Symposium

Sponsor Presentation

Caterpillar Update and Trends

Will Barnes, Power Generation Sales

N C Power Systems

An update on Caterpillar products and how they address current issues/trends in the marketplace.

About the Speaker

Will Barnes is a lifelong veteran of the electrical industry. He received his primary training in the US Naval Nuclear propulsion program and was an instructor on the S8G nuclear propulsion plant. After leaving the Navy he started as a field service technician for Cummins Northwest, and gradually worked his way up the ranks to outside sales of power generation equipment. After Cummins Northwest he moved on to other power generation roles at Caterpillar, MTU, and Generac, before returning back to Caterpillar

Will has worked on projects from the North Slope of Alaska to the McMurdo Research Station in Antarctica, as well as projects in 26 of the 50 states, and Washington DC. His projects have ranged from simple 5KW single unit diesel standby systems, to very large multi-unit megawatt medium voltage paralleling systems, as well as high horsepower natural gas, digester biogas, and landfill gas projects.

Lithium Ion Safety – Reviewing the NFPA and IFC Code Updates

Eric Hill, Energy Storage Manager

Alpha Technologies Services and Outback Power, an EnerSys Company

New 2018 Code families go into effect this coming year and will impact how the data center industry deals with energy storage devices, such as lithium ion battery systems. Learn more about the updates to the NFPA and IFC code updates for lithium ion battery deployments in commercial and residential applications.

About the Speaker

Eric has over 11 years of experience in energy storage product and operations management working with several applications including Renewable Energy, Broadband, Telecom, Industrial, and Datacenter UPS systems. He has broad experience working with battery systems including the following chemistries: Lead Acid, Lithium Ion, NiCd, Nickel-Zinc, Flow, Aqueous, Bi-Polar, Sodium-Ion. Eric holds a BS Finance from LSU Shreveport and is Pragmatic Marketing certified.

Estimating HEMP (High Altitude Electromagnetic Pulse) Damage for Power Utilities

Dour Bors, President

Sophometrics

Awareness of electrical events similar to High-Altitude Electro-Magnetic Pulse (HEMP) dates from before the power grid – perhaps beginning with a solar flare in 1859. During that event telegraph lines were destroyed and service disrupted. Today, the power industry is about midway through a multi-year investigation into HEMP effects.

Doug will review the history of electromagnetic pulses, review HEMP science, talk about difficult to predict electrical characteristics, characterize threat and damage potentials, and consider hardening strategies.

About the Speaker

Doug Bors is a change agent helping our region's design and construction industry adapt to global competition. Doug founded Sophometrics to focus attention on collaboration and effective decision making to support planning and execution of complex projects.

He is a speaker at regional and national events hosted by: AIA, NAIOP, IFMA, EnterpriseSeattle, NEEC, IEEE, U of W, EPRI, 7x24 Exchange, ASHE, & BiCSi. Doug graduated from MIT with two degrees, a BSEE (electrical engineering) and a BSAD (architectural design).

Top Ten Data Center Industry Trends

Orlando Dolojan, Director of Client Engagement-North America

Uptime Institute

The Data Center Industry is a dynamic and constantly evolving environment as data center designers, constructors, operators, and clients seek higher and higher efficiency and capability. The Uptime Institute has a unique perspective into a broad swath of data center facilities and operational strategies and will present a summary of their view of the leading data center trends and their potential impact on the industry.

About the Speaker

Mr. Orlando Dolojan joined Uptime Institute in 2014 as Director Client Engagement - North America. Dolojan has extensive background in Power Production Design, Construction, Commissioning and Operations both through his experience at Bechtel and as a consultant. His IT background includes networking design, integration of Citrix/MS, DaaS and Project Management. Dolojan has also held different and increasing responsibilities in the design, management and sales position of Data Center Solutions through his previous roles at APC/Schneider.

Chapter News

Sponsorship Program

We will be entering our third year of our Corporate Sponsorship Program. With six active corporate sponsors, we had the ability to bring our membership the finest in up to date and industry leading presentations and networking opportunities. If you are interested in becoming a corporate sponsor, look at the sponsorship levels below and contact us at your convenience. We are now accepting new sponsor applications for 2020, don't wait!

<i>Sponsorship Level</i>	<i>Annual Sponsorship Amount</i>	<i>Benefits</i>
Gold	\$3,000	<ul style="list-style-type: none">• Annual Corporate Membership*.• 30 minute product or service presentation slot at one meeting.• Table area for company literature at each event during the calendar year of sponsorship.• Prominent display of company name and logo on welcoming displays and chapter website for the calendar year of sponsorship.• Listing on Update Newsletter for current event.• Listing on Web page announcements for current event.
Silver	\$1,500	<ul style="list-style-type: none">• Annual Corporate Membership*.• 15 minute product or service presentation slot at one meeting.• Prominent display of company name and logo on welcoming displays and chapter website for the calendar year of sponsorship.• Listing on Update Newsletter for current event.• Listing on Web page announcements for current event.
Bronze	\$500	<ul style="list-style-type: none">• Annual Corporate Membership*.• Prominent display of company name and logo on welcoming displays and chapter website for the calendar year of sponsorship.• Listing on Update Newsletter for current event.• Listing on Web page announcements for current event.

*Corporate Memberships allow an unlimited number of members from your company and are normally \$200 per year.

If you are interested in becoming a corporate sponsor, contact Jim Svoboda at AC Power Technology at:

Email: jim@acpower.com Phone: 425.885.7493

Thank you to our 2019 Sponsors for their continued support!

Gold Sponsors



PUGET
SOUND
ENERGY

Life Is On



Silver Sponsors



Powering Business Worldwide

NC POWER SYSTEMS



Membership

Don't want to be a full corporate sponsor! Not to worry, we offer two different levels of membership to meet your needs.

- A Corporate Membership is available at \$200/year and allows your entire organization to be members.
- An Individual Membership is available at \$50/year.

Pick the membership that suits you and your company and thank you for your continued support!

To become a member, contact our Membership Chair:

Michael Gile

Energys

T: 206-496-9948

Michael.Gile@energys.com

We Now Accept Credit Card Payments!

The 7x24 Exchange Northwest Chapter can accept credit card payments for sponsorship or membership fees. To pay using your credit card, you can bring your card to one of our chapter meetings and pay in person, or call our Treasurer, Dmitry Kraskovsky at 253-520-5111.

Announcing our new Chapter Website!

We have just launched a new Chapter Website: www.7x24northwest.org

You can find all the latest news, event information and contacts for our Chapter here. You can also register for this Fall Chapter Meeting, so don't delay.

RSVP

Don't forget to RSVP today! Space is limited. Please respond by Tuesday, November 5th.

Contact Jim Svoboda at AC Power Technology at: Email: jim@acpower.com Phone: 425.885.7493

Or RSVP at our website: <https://7x24northwest.org/events>

Chapter Contacts

Officers and Committees

OFFICERS

President

Doug Bors, PE
Sophometrics
206-963-3077
dbors@sophometrics.com
doug@7x24northwest.org

Vice President

Bill Hunter
TBHE Consulting, LLC
360-453-7697
bill@tbheconsulting.com
bill@7x24northwest.org

Treasurer

Dmitry Kraskovsky
MTU Onsite Energy / Pacific Power Products
253-350-5170
dkraskovsky@pac-power.com
dmitry@7x24northwest.org

Secretary

Leonard Ruff, AIA
Cascade Mission Critical, LLC
206-294-1288
leonard.ruff@casademissioncritical.com
leonard@7x24northwest.org

COMMITTEE CHAIRS

Program Co-Chair

Conan Lee
Jones Lang LaSalle
206-607-1723
conan.lee@am.jll.com
conan@7x24northwest.org

Program Co-Chair

Jim Svoboda
AC POWER
206-300-9467
jim@acpower.com
jim@7x24northwest.org

Membership

Michael Gile
EnerSys
206-496-9948
michael.gile@enersys.com
mike@7x24northwest.org

Newsletter & Web Content

Leonard Ruff, AIA
Cascade Mission Critical, LLC
206-294-1288
leonard.ruff@casademissioncritical.com
leonard@7x24northwest.org

Website & Sponsorship

Jim Svoboda
AC POWER
206-300-9467
jim@acpower.com
jim@7x24northwest.org

If you would like to get involved in Chapter activities, just let one of the board members know, we are always looking for more member participation in planning Chapter sessions and communications.