

**IEEE Power & Energy (PE-31)  
Seattle Chapter Meeting  
February 24, 2011**

Topic: ARC Flash Studies and Work Practices

Date: Thursday, February 24, 2011

Time: 6:00 – 8:00 PM Refreshments, Chapter Updates and Presentation

Place: Bellevue City Hall 450 110<sup>th</sup> Avenue NE Bellevue WA, Room 1E-108

Speaker: Richard Trimble and Mike Brisbois

**Agenda**

6:00 pm – Networking and Refreshments

6:30 pm – Welcome and Introductions

6:35 pm – Presentation

**Abstract**

Abstract: Arc flash hazard analysis relies on complex equations and models in which the science and regulations are evolving. The speakers worked with PSNS which is one of the Pacific Northwest's largest Naval shore facility and one of Washington State's largest industrial installations, to conduct a comprehensive in-house arc flash study of over 2,600 electrical panels, load centers and motor control centers. Discussion will include arc flash regulation which will summarize current laws and standards such as NFPA 70E, IEEE 1584 and OSHA requirements and the approach taken for regulatory compliance and practical application of the calculated incident energy, risk categories and Personal Protective Equipment (PPE) levels used at the Shipyard.



**Speakers Bio**

Richard Trimble PE graduated with a BSEE from the University of Washington, had a tour in the Navy and started his utility career at Ketchikan Public Utilities in Alaska. He returned to Washington as Assistant Manager at Okanogan Public Utility District, and later developed new power projects for Energy Northwest. He is currently the Energy Manager at Naval Base Kitsap.

Mike Brisbois PE electrical engineer from the Florida Institute of Technology 1986 worked as a systems engineer at the Kennedy Space Center and an electrician with Rocket Electric before coming to the Naval Shipyard as a project design manager. Presently he is working on an audit of the Arc Flash Calculations to certify compliance at Naval Base Bremerton.

Non-IEEE PES members are welcome to attend.

Contact: Contact Henry Louie [louieh@seattleu.edu](mailto:louieh@seattleu.edu), 206-491-9720 for information on this talk.

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### PARKING and DRIVING INSTRUCTIONS:

City Hall is conveniently located at 450 110th Ave. NE (Northeast Fourth Street and 110th Avenue Northeast) in downtown Bellevue, near the Bellevue Transit Center, a block west of Interstate 405.



- **If you are walking**, the pedestrian entrance (plaza) is located on 110th Avenue. When you enter the building, you will be on the second floor.
- **If you are busing**, get off at the Bellevue Transit Center on Northeast Sixth Street between 108th and 110th avenues Northeast. Walk east to 110th Avenue Northeast, cross and use the pedestrian entrance.
- **If you are bicycling**, bike racks can be found in the visitor parking garage accessible from 110th Avenue Northeast (covered), and also right beside the plaza pedestrian entrance (uncovered).
- **If you are driving**, the visitor parking entrance is located on 110th Avenue. After you park and enter the building, you will be on the first floor.
- The **Oversize vehicle** parking entrance is on Northeast Sixth Street.
- Parking is available on a first-come, first-served basis, and is free to those doing business with the city or attending meetings at City Hall.
- **Additional information and assistance** is available from staff at Service First, located on the first floor, when visiting City Hall during business hours.
- The **Council Chamber and other meeting rooms** are located on the first floor.
- [Choose Your Way Bellevue](#) provides guidance on all kinds of ways to get around Bellevue.

**Driving Directions:** The most convenient off-ramp from I-405 is at Northeast Fourth Street (Exit 13A).

- **From Seattle via Hwy 520:** Take State Route 520 east over the Evergreen Point Bridge to I-405 south. Go south on I-405 and take Exit 13A west (Northeast Fourth Street westbound). Go one block and make a right turn on 110th Avenue Northeast. Proceed to the City Hall visitor parking entrance on the right.
- **From Seattle via I-90:** Take I-90 east over Lake Washington. Merge north onto I-405 (exit 10). Take Exit 13A west (Northeast Fourth Street westbound). Turn right on 110th Avenue Northeast. Proceed to the City Hall visitor parking entrance on the right.