



# IEEE BuildTech Conference

Dec 21, 8:00 AM | Live Stream from Seattle Washington

IEEE BuildTech Conference Innovative building design, Green Energy, progressive software, program management, Construction techniques, hydrogen fuel cells, EV charging, Infrared electrical safety, Smart Cities, fire safety for Buildings, Nuclear Microgrids and computing. Register today!

## Welcome to the

## **IEEE BuildTech Conference**

## **Tuesday December 21, 2021**

## **8 am - 5 pm PST**

## 08:10 AM PST Keynote Speaker Mike Holt, CEO at Mike Holt Enterprises



### **Mike Holt**

CEO at Mike Holt Enterprises, Inc

My goal in life is to change the life of those that I interact with. I want to make a difference, I want to be the wakeup call, and lead them to success.

### **Keynote:**

Grounding and Bonding

### **Session Description:**

Mike Holt is the owner of Mike Holt Enterprises ([www.MikeHolt.com](http://www.MikeHolt.com)), one of the largest electrical publishers in the United States. He earned a master's degree in the Business Administration Program (MBA) from the University of Miami. He earned his reputation as a National Electrical Code (NEC) expert

by working his way up through the electrical trade. Formally a construction editor for two different trade publications, Mike started his career as an apprentice electrician and eventually became a master electrician, an electrical inspector, a contractor, and an educator. Mike has taught more than 1,000 classes on 30 different electrical-related subjects ranging from alarm installations to exam preparation and voltage drop calculations. He continues to produce seminars, videos, books, and online training for the trade contribute monthly Code content to EC&M magazine.

**Topic: Bonding and Grounding**

## 08:35 AM PST Rick Wong, 'The Five Abilities'



**Rick Wong**, CEO/Founder The Five Abilities® LLC Sales Coaching & Consulting

Customers look for five things when choosing with whom they do business. The Five Abilities® increases your sales success by teaching the five things' people consider when making decisions about who they buy from. The Five Abilities® gives you the five key questions that help you identify your best next actions, and in less than a day, you are executing those best next actions on the way to winning business and lifelong customers.

Winning Lifelong Customers is the lifeblood of enterprise selling. As with most things, selling and business development skills are best honed by doing it. The Five Abilities workshop results in immediate actions applied to your current, live sales opportunities. A small part of the workshop is spent learning The Five Abilities® while most of the session is spent applying the framework to your sales challenges. Sales planning is optimal when it results in working tools that immediately enhance sales execution rather than simply creating management updates.

©2019 Rick Wong – The Five Abilities® LLC

### **Presentation**

2021 – Unique, Unusual, & Uncertain – How to be marketable anyway

All of us, whether we are engineers, developers, scientists, or sellers, must do the right things that keep us top of mind with our customers, clients, partners, and employers. This is true in normal times and it is even more true in 2021.

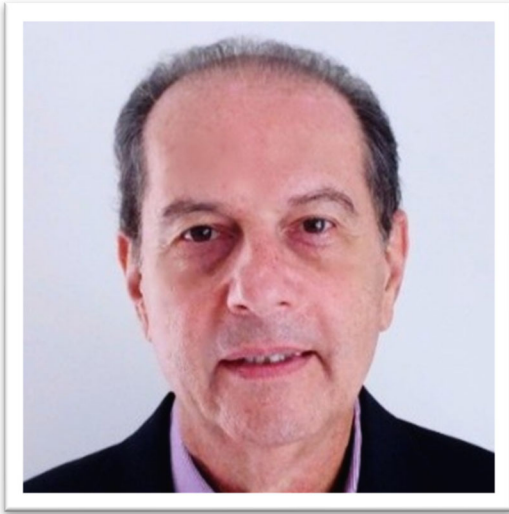
When things become uncertain, it is good to have a repeatable framework that helps you stay productive and present in times like this. The Five Abilities® is that framework that helps you earn VISABILITY, CREDABILITY, VIABILITY, CAPABILITY, and RELIABILITY, with all people you work with and those with whom you hope to work.

2021 is a year of change and change management experts advise us to find something we can hang onto that doesn't change, so that we remain productive and so that we manage the uncertainty rather than letting it manage us. While The Five Abilities® was created as a sales tool for those selling products and services, it is equally as helpful when you are selling yourself—something all of us do every day, especially in 2021.

You will learn The Five Abilities®, how they work, and how you will apply it to your business and to your own needs for being more marketable. I look forward to sharing this commonsense approach in ways that will be immediately beneficial to you.

**Topic: The Five Abilities needed to survive and prosper in the Building Industry**

**09:00 AM PST Bernardo Scheinkman, 'Smart Cities', Architect, Urban Planner, CEO at Smart Cities Americas**



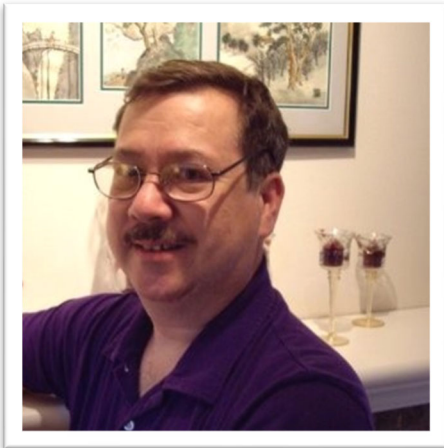
**Bernardo Scheinkman**

Senior Executive with an international career developed in corporate, institutional and educational activities in Brazil and United States, with significant achievements in new business development, disruptive innovation, technical standards, real estate appraisal, international relations, B2B online/offline events.

New Business Development, Project Management, Market Research, International Relations, Access to Global Supply Chains, Technology Transfer, Real Estate Appraisal, B2B Virtual and Face-to-Face Events, Portals, Social Business, Content Curation

**Topic: Smart Cities**

## 09:25 AM PST Tom Kraft, Fire Protection Engineer Deputy Fire Marshal, Hanford Nuclear



**Thomas Kraft**

Over 30 years of experience in fire protection and safety within private industry, risk management. Involved in day-to-day safety support to complex chemical operations in petroleum, utility, Hydroelectric, and DOE plants, as well as oversight for insurers and various federal, state, and local government agencies. Works closely with construction and process industry organizations in providing comprehensive fire safety programs. Works directly for fire departments and with building safety divisions. Has a broad base of experience in industry from previous work through risk and insurance management, including process safety consulting and direct field support for a variety of transportation and shipping industry, utility stations, electronics, and aerospace settings, and machine manufacturers, health care, property management, hazardous waste treatment and processing, financial, data processing.

Developed and managed Industrial Safety Programs, provided benchmark assessments, delivered training to both supervisory and line staff, and routinely conducts accident/incident investigations. Involved with both detailed root cause analysis and strategic planning oriented toward integrated safety management.

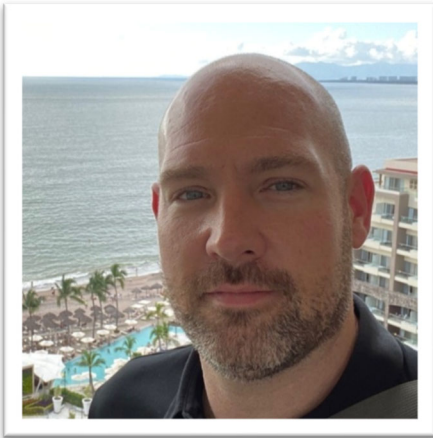
Conducts construction design review, field safety oversight, and safety program development for individual contractors. Developed tools for multidiscipline approach safety analysis of complex and high hazard equipment and process operations Provides management direction and guidance to other technical risk personnel and major accounts

Authored "Perspectives in Loss Control for Electric Power Generating Facilities, The Fire Protection Engineering Practice Manual, Model Best Practices Process Plant Safety Manual, and Model Best Practices in Safety for Construction Contractors at Process and Utility Plants.

### **Topic: Fire Stopping Buildings**

Fire stopping as it pertains to maintaining fire and smoke separations versus the adverse effects of unsupervised cable and junction box installations. The importance of the electrical designer working with a qualified firestop contractor to identify rated fire separations, the types of penetrations needed, obtaining details for consistent through penetration assemblies, and installation quality assurance measures. "Firestopping Coordination and the Importance of Coordinating the Electrical Routing.

## 09:50 AM PDT Tait Covert, Managed IT Services, Network Security



### **Tait Covert**

Tait and his company Greene have proven themselves to be not only experts in IT and Managed Services, but as full technology advisors. His ability and dedication to understand the full customer environment has saved our customers time, money and created a more efficient environment for them to focus on their core business. It refreshing to work with a technology consultant who is engaged in all levels of the environment rather than an out of the box solution.

**Presentation Title:** Network Security, IT Managed Services

## 10:15 AM PST Andrew Patterson, 'Fuel Cells' Bloom Energy and Utilities - Strategy and Corporate Development



### Andrew Patterson

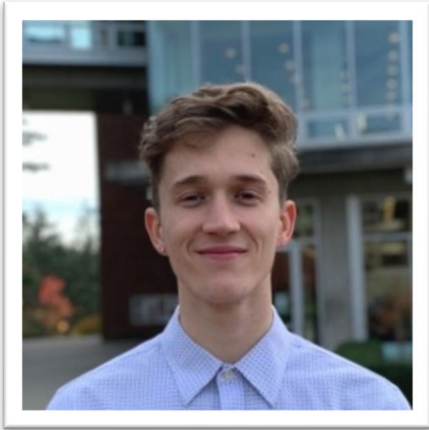
Experienced senior leader and business developer with deep background in energy utility (natural gas and power) fundamentals. Engaged by C-suites for 100+ completed advisory assignments, including: Corporate Strategy, Corporate Development, M&A, Business Development, Capital Allocation, Operations Effectiveness, Organization Alignment, Cost Take Out, Customer/Retail Operations, Distributed Generation, Energy Efficiency, Strategic Sourcing, and Operational Audits. Led multiple client operational effectiveness assignments across the energy utility value chain (e.g., fuel, power generation, renewables, transmission, gas/power distribution, customer service and retail). Acted as an energy utility expert witness in multiple federal (FERC, NRC) and state proceedings (CPUC, WUTC,

PUCT, PUCO). Multi-national experience with completed assignments in: Japan, Philippines, Australia, UK, Germany, France, Spain, Mexico, and Canada.

### Topic: Fuel Cells in Buildings

Will briefly discuss how Fuel Cells can supply enough power for a Home Depot. Will discuss what the electrical system is comprised of and what space is required for buildings and other facilities.

## 10:40 AM PST Marley Smith, 'Nuclear in today's Building Industry' Engineer at the Puget Sound Naval Shipyard



### Marley Smith

Engineering and education can empower us to solve climate change and other complex issues the world faces today. My passion to help people and the environment gives me motivation and a drive to excel in my work and make a positive difference. I am a self-starter, a highly independent engineer who is efficient at getting things done with minimal supervision and oversight. I am skilled at operationalizing theoretical knowledge and technical information into useful ideas and concepts.

I enjoy working in the nuclear power industry because the culture of constant learning and teamwork has given me many great opportunities to teach others, learn new fields of engineering, and get involved in an industry I've been interested in since I was a child. The experience I've gained training to be a shift test engineer has taught me to think with attention to detail, see the big picture and consider all possibilities, and make well-informed and safe decisions in every situation.

I enjoy working with others that share my love for science, and I bring a diverse background of engineering, leadership, and compassion to every team I join. I am an active member of IEEE because I share the vision that we can improve the planet and everyone's overall quality of life by advancing technology for humanity. The sense of community that we get being part of something bigger than ourselves helps inspire us and allows us to achieve our best and succeed in life, and that is something that I find important in my career.

===

Hello everyone. I'm a Nuclear Shift Test Engineer at the Puget Sound Naval Shipyard in Bremerton, Washington. In my current role, I oversee and direct testing and maintenance on naval ships' systems during maintenance overhauls. I graduated from Western Washington University with a Bachelor of Science in electrical engineering last year, and I am currently living in the First Hill neighborhood of Seattle. I have been an IEEE member for the past several years, and have mainly been involved with the IEEE Seattle Chapter and the Power and Energy Society. In my free time, I enjoy going mountain biking, mountaineering, and taking my dog on hikes and long walks around the city. I'm passionate about engineering and environmental issues, and I am always down to have a fun conversation about any topic at all, so don't hesitate to reach out!

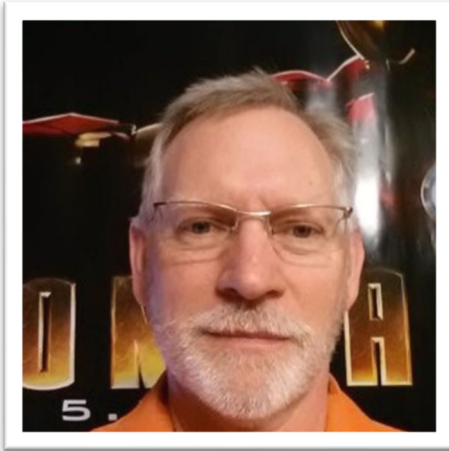
### Topic: Nuclear in the Building Industry

I'll be discussing the current state of nuclear energy across the world today, and how it is a key technology that may play an integral part in the future of our complex, rapidly growing world. There are several unique challenges present in the industry today, and many innovative new ideas being developed to solve them as well.

I will touch on some of the newest research in the field, including some of the larger projects in development today. Lastly, no discussion of nuclear power would be complete without a brief history and lessons learned, as this can explain a lot about how the industry developed to where it is today.



## 11:05 AM PST Bob Williams, 'Battery Energy Storage'



### Bob Williams

Design and consulting for power quality in datacenters, industrial and commercial environments; UPS systems, datacenter power distribution, surge suppression, harmonic mitigation, voltage regulation and power distribution. Also offering battery energy storage systems (B.E.S.S.) for microgrids and carbon reduction in green building construction.

Since 1999 I have been assisting customers in the application of power quality equipment into critical environments. In particular, I have been working with consultants and design-build contractors on UPS system application, offering the most efficient redundant designs to maximize power utilization, availability and efficiency.

Understanding today's political, economic and environmental needs and trends, I focus my interest and time toward providing products and solutions that help my customers reduce their operating costs and carbon footprint.

Having two decades of experience in the electrical industry on the wholesale level, I have a comprehensive understanding of all aspects of product selection, coordination and the supply chain.

### **Topic: Battery Energy Storage Systems for Buildings**

Building Energy storage devices. Types of Batteries.

**11:30 AM PST Dave Seiling, AV Agnostic for Building Networks, Senior VP Salas O'Brien**



**Dave Seiling**

A successful engineering consultant creating, connecting and protecting workspaces through design and recommendation of products, providers and processes. A proven leader by example and technical guide for clients and colleagues. Experienced in management of professional services driving profitable growth. Adept in the culture of a small organization with extensive experience integrating into large enterprises.

**Topic: AV Agnostic in Building Networks**

**11:55 AM PST Craig Virgin, Olympia Olympian, World Champion, Coach, Freelance Broadcaster, Motivational Speaker, Spokesperson, Public Relations Consultant**



**Craig Virgin**

Celebrity athlete and nationally known expert in distance running. Besides being self-coached for most of my world-class post-collegiate running career, I have advised and mentored athletes and coaches in developing effective distance running training programs and racing strategies. I have served as presenters at athletic clinics/seminars around the world for many years. Athletic highlights in distance running include:

- \* 2-time World Cross Country Champion
- \* 3-time U.S. Track & Field Olympian
- \* Multiple American national champion & record holder
- \* U.S. National Track & Field Hall of Fame, 2011
- \* St. Louis Sports Hall of Fame, 2011
- \* U.S. National Distance Running Hall of Fame, 2001
- \* RRCA Long Distance Hall of Fame, 1984
- \* Won 5 Illinois State HS Championships and still holds the state records for both the 3-mile cross country & 2-mile track run.

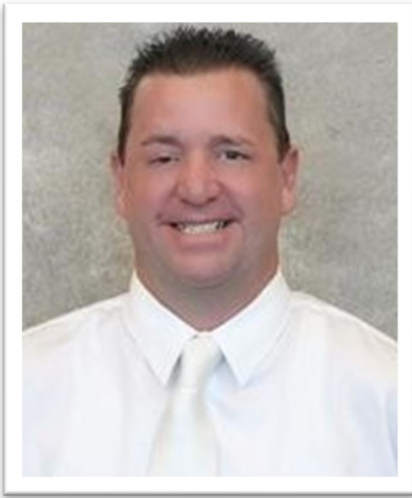
Arguably the finest distance runner ever come out of the state of Illinois, and one of the top 10 distance runners in American history!

Specialties: Public speaking, media tour and spokesperson, freelance radio/television, and product & event promotion.

**SWAG giveaway**

Five of Craig Nationally known books titled: Virgin Territory: The Story of Craig Virgin, America's Renaissance Runner

## 12:05 PM PST Mark Bowling, 'InfraRed Testing – Buildings',



### Mark Bowling

Mark Bowling is the Business Development Manager for the Northwest US/Canada for IRISS Inc. based in Bradenton, Florida. IRISS designs and manufactures Electrical Safety Maintenance Devices (EMSD's) to ensure that qualified personnel can perform equipment maintenance inspections safely and efficiently. IRISS' goal is to help their clients protect their People, Profits and Equipment. Mark has over 25 years of customer service and sales experience and is a certified Level II Thermographer and a Level I certified in Ultrasound.

### Topic: InfraRed

The overview that we're going to cover in this webinar is an introduction of the company, arc flash and electrical fire statistics specifically in the US, and equipment failure patterns and how that plays into the importance of condition-based maintenance and monitoring techniques. OSHA and NFPA 70E and what they say when it comes to electrical maintenance and safety in this concept of hierarchy of control. The types and usage of electrical maintenance safety devices we'll talk about the standards relating to infrared window construction which are still predominant EMSDs devices that are used today and questions and answers.

## 12:30 PM PST, Gregory Billington, Sustainable Buildings Stats, Economist



**Greg Billington**

Sr Manager developing strategy across large market commercial products, specializing in cross border, digital wallet, and sustainability solutions.

Graduate of Visa's Olympian and Paralympian Business Development Program (OPBDP), a 24-month program for retired Olympians/Paralympians which places participants in four six-month rotations throughout divisions in the company.

2 years of experience as a Business Development Associate. Delivered consulting engagements, signed issuing agreements, and launched a product website in the following

functions: Visa Business Solutions, Visa Consulting and Analytics, Visa Direct Commercialization, and NA Community Issuer Sales.

Olympian - Competed for the US Triathlon Team in the 2016 Olympic Games and, while working full-time at Visa, raced the 2020 US Olympic Marathon Trials, finishing 37th in 2:17:21. Passionate about enhancing career performance through health and wellness based on skills developed during a 7-year professional triathlon career.

### **Topic: Economic Overview: Sustainable Buildings**

Will briefly discuss the trends in new and existing building adopting more sustainable features such as photovoltaic Solar Arrays, battery energy storage, wind turbines, sustainable sidings, combined heat and power, microgrid controllers (selling back power the Grid).

## 12:55 PM PST Ahmad Farrakh Manzoor, 'Smart City', Siemens



### Ahmad Farrakh Manzoor

Ahmad Farrakh Manzoor has been with Siemens for over 2 decades. He has been associated with various divisions and had multiple positions globally. At present he is the Branch General Manager for Siemens Smart Infrastructure in Greater Houston.

Ahmad is an advocate of cultural transformations leading towards unmatched teamwork, ownership and creating leaders for tomorrow.

Ahmad is passionate about Digitalization, IoT & Smart City applications. Through his work, he intends to make technology simple to understand and to have it applied in a useful way, helping make infrastructure more smart, sustainable and energy efficient.

### Smart Cities

Where would we have been in this pandemic without digital technology? It enabled us to stay connected, productive, keep the world going and create immense economic wealth. Similar technology is the need of the hour to make Cities smarter, sustainable and delight its residents & visitors. Human beings spend about 90% of their lives in buildings and transportation. How can IoT & digital technology make Smarter Cities? How would some of the applications look like?

### Topic: Smart Infrastructure Buildings

## 01:20 PM PST Cory Jasper, Bonding and Grounding, Power Systems Engineer Schneider



**Cory Jasper**

I am the Principal Power Systems Engineer for Schneider Electric in the St. Louis area. I provide technical leadership for many of our company's power consulting offers. My areas of expertise include system studies, electrical safety, grounding system assessments, ground fault protection and distribution system protection. I also lead the development of new offers for our business and provide mentorship to junior engineers in my region.

On the business development side, I work with our sales teams in providing technical presentations at conferences and short lunch and learns. I also travel with sales to meet and greet customers personally to fully understand their needs and expectations on their project.

These tasks provide for excellent customer service and have contributed to growth of the business year over year.

I am experienced with industry standards such as NEC, NFPA 70E and several IEEE 'color book' standards. I hold a PE license in 8 states and the District of Columbia.

**Topic: Grounding and Bonding**

## 01:45 PM PST Marian Stec, 'Cathodic Protection for Buildings' Corpro



### **Marian Stec**

Mr. Stec has over thirty years of experience in the field of cathodic protection and electrical engineering.

He has conducted preliminary surveys, current requirement tests, mass transit track electrical testing and troubleshooting, stray current investigations, soil resistivity surveys, corrosion consulting, design, installation, testing and troubleshooting of all types of cathodic protection systems.

Mr. Stec has extensive experience in surveys and monitoring of both impressed current and galvanic systems on underground utility piping, stray current monitoring systems, offshore pipelines, offshore platforms, chemical plants, pipelines, gas distribution systems, tank farms, docks and sheet pile bulkheads.

Mr. Stec has also considerable experience in electrical continuity testing of electrically bonded pipelines, locating underground electrical discontinuities and/or shorts and troubleshooting dielectric flanges and joints.

**Topic: Cathodic Protection for Buildings**



## 02:10 PM PST Joy E. Seitz, 'Solar Panels for Buildings', CEO at American Solar Roofing



**Joy E. Seitz**

CEO, American Solar & Roofing

Joy Seitz, CEO of American Solar & Roofing, has been involved in the solar industry for over 12 years. Joy is involved in running the day to day of a construction business, working closely with manufacturers, training solar crews in the field, and has worked side by side with engineers. She is a CEO dedicated to developing a company culture that is industry changing. Joy is a prominent voice within the industry advocating for proper training, safety and treatment of tradespeople. Locally, Joy is highly involved in advocating for solar and roofing, serving on two City of Phoenix Boards: The Development Advisory

Board and the Fire Safety Board. Joy Seitz is also bringing her level of expertise to the national solar advocacy group, Solar Energy Industries Association (SEIA), where she serves as an elected Director.

### **Topic: Solar**

Solar panel arrays are now becoming part of buildings (new and existing designs). We are installing solar panels onto buildings. We either use the power internally, sell back power to the Utility or install battery energy storage systems. At American Solar and Roofing supply, install and help maintain customers solar grids. Expert in the Solar panel business. Work with local and national vendors/contracts to provide solar panels to new and existing facilities. Will speak on how solar panels are made and where they are manufactured. What types of material goes into the solar panel construction? What are the best types of solar panels? Are tilts required? How to clean panels.

**02:35 PM PST Nishchal Shorey, Microgrids for Buildings', Electrical Engineer**



**Nishchal Shorey**

Electrical Engineer specializing in controls and protection.

A microgrid is a local energy system which incorporates key components; Generation, Storage and Control System. It may or may not be connected to the grid. The electrification of more areas of the economy, including transport, building systems and industry will drive a substantial increase in power demand. A microgrid is a way to simultaneously address energy security, reliability, affordability, profitability, sustainability and resiliency through locally controlled, independent energy systems tailored to end-user requirements. Different end-users have a range of requirements from

their energy supply systems. Regardless, the ability of a microgrid to maintain a “supply”, “load” and “storage” balance is a key attribute.

**Topic: Microgrids for Buildings**

## **03:00 PM PST Pamela Hamblin, 'The Energy Revolution: Buildings', Reliable Solutions in Power Generation, Transmission & Distribution for K&A Engineering Consultants**



**Pamela Hamblin**

Pamela is an account manager at K&A Engineering Consulting. With 24+ years in her Energy career, she has developed a vast knowledge of the many dynamics involved in delivering safe, reliable, and affordable power. Those dynamics have changed drastically over the last decade due to environmental objectives and economic impacts. Her relationships with many corporate level executives at the nation's largest utilities and her extensive industry network connections reflect her highly influential reach in the market. These relationships represent every facet of the Energy dynamics our world currently faces.

Because of her relationships and industry experience, she is regarded as an Subject Matter Expert for safety and reliability of legacy power generation, grid stability and resiliency, energy economics, and alternative green energy resources.

Pamela has been invited as an expert speaker for respected industry conferences and has been published in numerous industry magazines. Her published work includes multiple technical papers for ASME as well as feature articles in Power Engineering Magazine and Inspectioneering Journal.

Additionally, Pamela serves as an expert panelist on the ASME Technology Advisory Panel (TAP) for the Pressure Technology group and the ASME Power Plant Cycling Executive Advisory Committee.

**Topic: The Energy Revolution - Buildings**

## 03:25 PM PST Raymond Strittmatter, 'Earthing and Bonding' Engineer at Lea & Elliott



**Raymond Strittmatter**

Mr. Raymond Strittmatter has more than 25 years of electrical engineering and traction power system engineering experience involving major transit electrification projects to include design, coordination, management, and commissioning of ac and dc Traction Power System and Corrosion Control Projects throughout the United States, Europe, and the Middle East from conceptual design to commissioning to include preparing design criteria, budgets, schedules, computer modeling/simulations, final design submittals, tender/bid documents, construction specifications and drawings, factory and field testing procedures, and construction sequencing plans; Review Contractors' design and construction submittals; Design and tests ac HV/MV/LV switchgear, transformers, DC diode/thyristor

rectifiers/inverters/WESS, dc switchgear, SCADA systems, Energy Management Systems, illumination systems, cathodic protection systems, and platform screen doors interfaces. Coordinate with local utilities for design/construction of electrical power services, 120 V through 220 kV, and facilitating service agreements.

Raymond Strittmatter used to be Chairman of the IEEE Standards Authority (SA) VTS standards subcommittee for standard 1653.5 – IEEE Recommended Practice for Thyristor Controlled Rectifiers for Traction Power Substation Applications, and now an active member of many other standards working groups to create standards for the Traction Power Substation and Overhead Contact System industries as part of the IEEE Vehicular Technology Society (VTS). After returning to the USA from his overseas projects, Raymond Strittmatter is working on projects such as WMATA Silver Line Phase 2 Extension to Dulles Airport in Northern Virginia and BART Portable Traction Power Substations for San Francisco, among providing technical assistance for other projects.

### **Topic: Earthing and Grounding**

AC Substation Grounding Grid Design Basics

Low Resistance Vs. High Resistance Vs. Solidly Grounded DC Equipment Enclosures.

Grounding Methods for Passenger Station Platform Screen Doors

## 03:50 AM PST Thomas Topero, Smart Cities Through Intelligent Urban Design



**Thomas Topero**

“We cannot solve our problems with the same thinking that we used when we created them.” --Albert Einstein

Pursuing a career where knowledge and understanding of the built environment ecosystem, human behavior, urban space literacy, data science and IoT technology are utilized along with leadership and management experience. By upgrading my skills in information/data science, programming & automation, and problem-solving analytics, I am tying together my educational, professional & personal experience and skills from architecture, urban design, sustainability & business development in a meaningful and significant manner. The result is being able to bring together disparate sources of data, systems and processes, make them useful to decision makers, and

understandable by any interested party.

Trained in geospatial information and data science, architectural & urban design, with concentrations in sustainability & business have allowed me to understand & apply my skills at all organizational scales and with people from all perspectives & backgrounds. My experience as an entrepreneur demonstrates my ability to be a self-starter, work independently as well as in a team, communicate effectively with people of all backgrounds & skill levels effectively, manage all aspects of a business and be profitable during a recession.

Employment experience in allied fields of project management, sales, financial services, construction management, estimating and real estate, as well as running my own business and consulting service lend additional knowledge and experience about the facets of the processes and end use of data analysis, designed spaces, networks & environments.

**Topic: Driving smart-washing around smart cities, and how we can un-wash the industry.**

**04:15 PM PST David Zornes, Wind Turbines for Buildings, Zornes Enterprise**



**David Zornes**

A Toroidal Paraboloid Reflector Provides:  
Fuel Free non-Aerodynamic Aircraft That Morphs Into  
Aerodynamic Shape For High Speed Flight  
Aircraft are Watercraft Too.

An Aerodynamic Solar Fuel Free Tube Fuselage Is An Air Screw  
With Hot Air Balloon Lift.

Parabolic Wind Turbine Blades are Solar Mirror Collectors  
Focused Along Adjacent Blades.

3D Graphene is a Gas-Tight Ultrathin Film As Strong As Diamond,  
but Flexible Like Cloth.

Publication: <http://papers.sae.org/2010-01-1784> Clean rooms  
are not required when high energy magnetic fields produce 3D

Graphene, so a focus to produce from an active crude oil/gas field well is being planned for commercial release.

[www.davidzornes.com](http://www.davidzornes.com)

## 04:40 PM PST Sanjiv Gupta, 'IIoT in Buildings', Irepa International



### Sanjiv Gupta

Irepa International is a trusted IoT Consultancy, System Integrator & Value-Added Re-seller of Computers & Peripherals as well as IIoT Products, Solutions, Services & Cybersecurity to the Federal, State, County & City Governments, and Private Sector.

Our Market-Ready Solutions and Services help optimize operational efficiencies & productivity and ensure cybersecurity, privacy, health & safety, truth, transparency & accountability, and sustainability for all industry verticals/horizontals and digitally transform them into intelligent autonomous automated systems. We first provide IoT consultancy services to help you better understand the potential/ROI of IIoT, as well as we provide

business development services for your sales funnel and pipeline activities.

Sanjiv spent almost twenty years in growing Intel Corporation's mobile wireless business (Bluetooth, WiFi) with key mobile PC OEMs (Toshiba, SONY), consulting/evangelizing Intel's WiMAX, LTE, WiGig, and Peer to Peer technologies with key Telcos (Axtel, Cablevision) and ecosystem partners, and contributing to the building of Intel's revenue generating IoT partner ecosystem comprised of ISVs (Independent Software Vendors specialized in sensors, analytics, and data driven decision making), OSVs (Operating System Vendors), and IBVs (Independent BIOS Vendors).

Prior to this, Sanjiv served in various senior engineering and marketing roles at Texas Instruments, Cirrus Logic, and Rockwell Semiconductors. Sanjiv can definitely claim his leadership through experience in driving rapid industrial conversions using the latest IoT architectures - transforming an old legacy world of enormous disparate disconnected data to a new world of homologous holistic connected data.

Sanjiv was born in Jackson Hole, Wyoming and grew up in Englewood, Colorado. He holds a BSEE and MSEE from the University of Colorado, Boulder and the University of Texas, Arlington, respectively.

**Topic: Green Energy Microgrid/IIoT/ICS solutions transform vertical/horizontal industries into profitable, operationally efficient, resilient, sustainable, transparent/accountable, healthy, safe, and cybersecure entities.**

## 5:00 PM Closing - IEEE PRIZE PACK- and Special Guest



### **Seth Pavlik**

Live Beatles cover. Guitarist / Life Coach-Guitar Teacher-Songsmithery

*Seth Pavlik -Songsmith / Producer / Life Coach" Sliding scale friendly*

The Scramblesuits Seattle, Washington the Scramblesuits like to take rock 'n' roll via 3-piece into as many different directions they can conjure while maintaining edgy, angular, and melodic integrity. Larry Bichler (drums) and Seth Pavlik (guitar/vocals).



Meet our Consultants:

<https://www.seattleelectricalconference.com/showcase>

Our Showcase:

**Mike Brisbois**

**Brian Galonek**

**Sayonsom Chanda**

**Kirill Gritsenko**

**Wendi Walsh**

**Tom Coughlin**

**Bob Williams**

**Tam Tran, PE**

**Souvik Chandra**

**Shirly Shemesh**

**Pamela Hamblin**

**Sanjiv Gupta**

**Mark McGee-Pasceri**

**Phillip Serna**

**Marley Smith**

**Laith Qasir**

**Dan Velando**

**Sean Zhou**

**David Brighton**

**Alex Gamble**

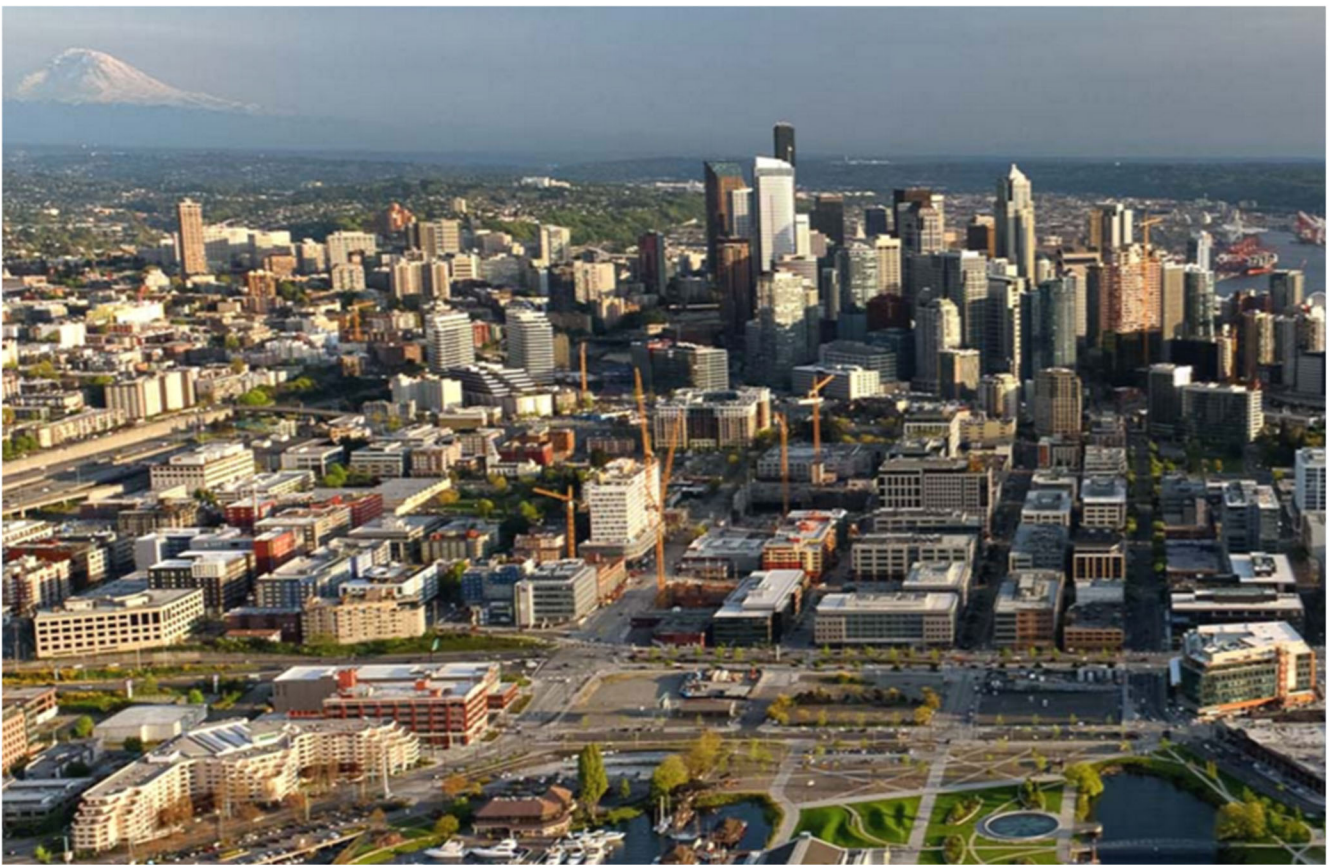
**Samuel Vega-Cotto**

**Krishnamurthy Raghunandan**

**Blaine W. Millet**

**Wally Adamchik**

**Thank You!**  
**For joining us today at the**  
**IEEE BuildTech Conference**  
**Seattle Washington**



[SeattleElectricalConference.com](http://SeattleElectricalConference.com) **IEEE BuildTech Conference**

Mike Brisbois, IEEE Consultant Network Chair

[mike.brisbois@ieee.org](mailto:mike.brisbois@ieee.org)

(708)668-5488

See you on April 8, 2022 at 8 am PDT for the IEEE Green Conference. Sign up today at

[SeattleElectricalConference.com](http://SeattleElectricalConference.com)