

Energy Symposium 2017 November 12-14, 2017

Hyatt Regency - Newport Beach

Newport Beach, California

Sunday, November 12, 2017

7:00 PM till 9:00 PM Welcome Reception (Non-Hosted with Cash Bar)

Monday, November 13, 2017

Registration 8:00 AM - 5:00 PM						
Track		Technologies I	Technologies II	Energy Basics	Energy Independence	Financing
Room Location						
Session	Time	Ray Prosize	Chris Wheeler	E.W. Dovel	Tony Mayfield	Manisha Patel
1	9:00 AM - 9:45 AM	Mechanical Systems Measurement Solutions Ray Prosize ONICON	LED Lighting - Here Now, What's Next (Panel) E.W. Dovel Orion	Setting Up An Energy Conservation Program - Internal or 3rd Party Charles Howell Red Horse	Overrated or Underrated? The Truth about Rating Systems for Sustainability Dominique Hargreaves, Executive Director U.S. Green Building Council - LA Chapter	Finance For Beginners Scott Foster Bostonia
2	9:50 AM - 10:35 AM	CEC's New Energy Innovation Ecosystem & Energize California TBD	Metering Data Analytics: How to use all of your meter data Chuck Strand	Project Management Tony Mayfield, PMP On Target Briefings	Hospital Energy Savings ALWAYS Overlooked but can be Significant" Jim Park I-Star Energy Solutions	California Proposition 39 Camilo Arango Powersmiths
3	10:40 AM - 11:25 PM	DoD Advanced Control Systems Tactics Michael Chipley PMC Group	"Maintaining control of energy data integration cost and quality" Aryana Fadaiefard Powersmiths	Lighting 101 E.W. Dovel Orion Energy Services	Achieving Net Zero Larry Schoff E2 Energy	8(a) Contracting Basics: How to get the most out of Small Business Contracts Chuck Strand
Lunch 11:25 AM - 12:50 PM LUNCH IN THE TECHNOLOGY HALL						
4	12:50PM - 2:20PM	Michael McCormick, Office of Planning and Research, California Governor Office Paul Robinson, Director, Energy Division, Huntsville				
5	2:25 PM - 3:10 PM	Smart Connected Lighting Eric Haugaard CREE	Business Driven Solution for Infrastructure Upgrades How to leverage Savings, Grants Alicia Bender Southland Energy	Tackling Large Portfolio Energy Conservation Measures Rob de Grasse RD3, Inc	High Efficiency Dehumidification System (HEDS) Cuts Energy Use >50% for RH Control Scott Duncan ROI Engineering	Adaptation and Coordination of Energy Systems for Better Outcomes Kif Scheuer, Michael McCormick Local Government Commission, Office of Planning & Research, California Governors Office
Break 3:10 PM - 3:30PM BREAK IN THE TECHNOLOGY HALL						
6	3:30 PM - 4:15 PM	Kinetic Energy Storage Systems: The new generation of flywheel technology. Chuck Strand		"Envelope Improvements? Why spend millions but leave the windows open?" Jim Park I-Star Energy Solutions	Power Purchase Agreement Sharon Gresham, Scott Foster USACE, Bostonia	Competitive Grants for Energy Projects Billy Hwang WSP, Parsons Brinckerhoff
7	4:20 PM - 5:05 PM	It is Amazing what You Can Learn About Your Building From Looking at Utility Bills John Avina Abraxas Energy Consulting	Combine Heat and Power J.P. Hoffman Ameresco	Color Quality Consideration for Street Lighting Eric Haugaard CREE		Utility Round Table (Discussion on how to perform an UESC program) Panel Phillip Consiglio, Ren McDearis SCE, Southern Company
5:10 PM - 6:30 PM Utility Energy Services Coalition Networking Reception (Non- Hosted with Cash Bar) Locate In Technology Exhibit Area						

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Tuesday, November 14, 2017

Track		Technologies I	Technologies II	Energy Basics	Energy Independence	Utility Energy Services
Room Location						
Session #	Time	Ray Prosisie	Chris Wheeler	E.W. Dovel	Tony Mayfield	Manisha Patel
Registration 8:00 AM - 5:00 PM						
8:00 AM EXHIBIT TECHNOLOGY HALL OPENS						
8	9:00 AM - 9:45 AM	Smart Water Management Ben Slick HydroPoint	Saving Energy with Transformers Camilo Arango Powersmiths	Water technologies – atmospheric water generation: Camp Mayberry example Mark Falasca CCI - Alliance	Energy as a Service Mike Warwick PNNL	The Benefits of Self Performing ESCOs Michael Bartlett ABM
Break	9:45 AM - 10:10 AM	BREAK IN THE TECHNOLOGY HALL				
9	10:10 AM - 10:55 AM	WOW!! What do I do with all this Metering Data Jim Plourde Powersmiths	Eight Ways a Poor Energy Audit Can Prove Costly to the Building Owner John Avina Abraxas Energy Consulting	GSA 5 Office Buildings ESPC Case Study Kevin Brown ABM	FAA Case Study (project execution, maintenance efficiency, collaboration with building tenants) Josh Weddington FAA	“100% Renewables on your Grid Today” Patrick Lee, Vice President - Infrastructure and Technology Sempra Infrastructure, LLC
10	11:00 AM - 11:45 AM	Advanced Metering Innatives Lessons Learned Case Study Ray Prosisie ONICON	Deferred Maintenance Seth Pearce Ameresco	California High Speed Rail 100% Renewable Meg Cederoth	Energy Resiliency Robert Aunan Tetra Tech	City/Airport Energy Master Planning Round Table Chris Gillis ESG
Lunch	11:45 AM - 1:00 PM	LUNCH IN THE TECHNOLOGY HALL				
11	1:00 PM - 1:45 PM	Waste to Energy Doug Lemons ACCO Engineered Systems	Electric Charging and Vehicles Daniel Bakke ABM	Energy Performance Assurance using ISO 50001 Paul Birkeland Global Strategic Energy	Energy Resilience: Installation Master Planning Africa Welch-Castle USACE	UESC Past. Present, and Future (Panel) Jason Cartozian, Michael Bartlett, Chris Gillis Siemens, ABM, ESG
Break	1:45 PM - 2:10 PM	BREAK IN THE TECHNOLOGY HALL				
12	2:15 PM - 3:00 PM	LED Interior: Case Study Economics of Retrofit VS Replacement E.W. Dovel Orion Energy Services				ESPC Past. Present, and Future (Panel) Michael Bartlett, Chris Gillis ABM, ESG
13	3:05 PM - 3:50 PM					

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CyberSecuring Control Systems Workshop

Instructor: Michael Chipley PhD GICSP PMP LEED AP President PMC Group

Wednesday, November 15, 2017 8:00AM - 4:30 PM

The Cybersecuring Control Systems Workshop is geared to help architects, engineers, contractors, owners, facility managers, maintenance engineers, physical security specialists, information assurance professionals—essentially anyone involved with implementing cybersecurity in the Control System (CS) life cycle—to learn the best practice techniques to better protect their CS.

The workshop provides a combination of classroom learning modules to teach control system basics, protocols, how to use the NIST Risk Management Framework and the Cybersecurity of Facility-Related Control Systems Design Guidance, and hands-on laboratory exercises using tools and methods to inventory, diagram, identify, attack, defend, contain, eradicate and report a cyber event/incident. This includes understanding and practicing hacker and defender techniques for footprinting, scanning and enumeration, exploitation, and post exploitation clean up and maintain persistence. Attendees will see how hackers use exploit tools to gain entrance into the control system, pivot through the network, establish beacon command and control channels, modify logs to mask presence, and exfiltrate data. Attendees will also learn how to use the Advanced Control System Tactics, Techniques, and Procedures (TTPs) developed by the U.S. Cyber Command (USCYBERCOM) to create a Recovery Jump-Kit to find and eradicate malware and exploits using tools such as MalwareBytes, Microsoft Internals Suite, and OSForensics to perform data collection for forensics.

Workshop Overview:

0800-0900: **Unit 1 Overview of Control Systems, Networking and Communication Protocols, NIST/SANS/ISA/ISSO Standards & Drivers**

0900-1015: **Unit 2 Hacker Methodology**

1015-1030 **Break**

1030-1115 **Unit 3 UFC 4-010-06 Cybersecurity of Facility-Related Control Systems**

1115-1200 **Unit 4 Overview of ICS-CERT CSET tool**

1200-1300 **Lunch**

1300-1330 **Unit 5 Advanced Control System Tactics, Techniques, and Procedures**

1330-1400 **Unit 6 Control System Forensics**

1400-1430 **Unit 7 Acquisition and Procurement Language for Control Systems, Wrap Up Q&A**

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Practical Project Management Seminar

Instructor: Tony Mayfield, PMP

Wednesday, November 15, 2017 8:00AM - 4:30 PM

Thursday, November 16, 2017 8:00AM - 4:30 PM

Friday, November 17, 2017 8:00AM - 12:00 PM

Background

The Practical Project Management Seminar is a course designed for those seeking professional project management certification. It serves as a thorough introduction to the fundamentals of project management. Those seeking additional credentials such as the PMP will benefit from this dynamic and interactive two day work session, while those currently holding credentials will find the certification to be an enhancement as well as the most up to date advanced professional development.

Practical Project Management course provides 20 hours of project management education in classroom hours towards Project Management Professional (PMP) certifications with the additional 15 hours by Webinar on November 20-21. Additionally, the Practical Project Management Seminar provides 16 Professional Development Units (PDUs) for current holders of PMP®/PgMP®, PMI-SP®, and PMI-RMP® credentials. Additionally, the program awards 1.6 Continuing Education Units (CEUs) upon request.

Seminar Description

Practical Project Management teaches technical and business professionals how to master the critical skills of project management techniques as part of their technical career development.

The skills developed in the Practical Project Management course apply to large and small projects, product design and development efforts, construction projects, IT projects, software development, and any project with critical performance, time, and budget targets.

Our approach to project management education offers proven, results-focused learning.

Courses are developed and facilitated by Tony Mayfield, PMP president of On Target Briefings with extensive industrial experience. Course emphasis is on providing practical skills and tools supported by relevant case examples.

Program Schedule and Content

Introduction to Project Management

- Definition of a project
- Why project management
- Project life cycle
- Organization structures (functional vs. matrix and borrowed resources)
- Translating needs into requirements

Project Selection and Planning

- Project selection approaches
- Decision methodologies (decision trees, analytical hierarchy process)
- Project evaluation techniques
- Estimation (costs, schedule and requirements)
- Project financing

Project Planning and Estimating

- Work breakdown structure
- Scheduling techniques (precedence diagrams, PERT/CPM, Gantt and milestone charts)
- Budgeting techniques (S-curve, earned value)
- Resource allocation techniques (resource loading and leveling)

Project Management and Leadership

- Special demands on project managers
- Selecting the project manager and the project team
- Project communications
- Organizational structure (teams and team development)
- Characteristics of successful project management
- Management styles, leadership and motivation
- Procedure management

Risk and Quality Management

- Fundamentals of risk (e.g., what is risk?)
- Methods for dealing with risk and uncertainty
- Risk assessment and management process
- Risk Matrix Approach
- Risk simulation (Monte Carlo simulation)
- Historic roots of quality management
- Current approaches to quality

Project Execution and Control

- Project execution (configuration management)
- Project control (measuring work performance)
- Financial controls (activity based accounting) • Integrated cost and schedule control (Earned value)