

Keynote Address

Patrick McNerney



5G AND THE FOURTH INDUSTRIAL REVOLUTION ARE RIGHT AROUND THE CORNER, IN FACT, THE WHEELS ARE ALREADY IN MOTION. SMART CITIES, SELF-DRIVING CARS, ROBOTICS, ARTIFICIAL INTELLIGENCE, AND CONNECTIVITY ON A SCALE PREVIOUSLY UNIMAGINABLE WILL BE HERE BEFORE WE KNOW IT. 5G IS NOT LIMITED TO FASTER SPEEDS AND A FEW NEW CHIC CONSUMER TECHNOLOGIES, BUT RATHER A COMPLETE PARADIGM SHIFT IN OUR SOCIETY AND HOW WE INTERACT WITH TECHNOLOGY. BUSINESS

OPERATIONS, OUR PERSONAL RELATIONSHIPS. AND EVEN THE METH-ODS IN WHICH COUNTRIES GOVERN THEMSELVES WILL BE IMPACTED. THE POSSIBILITIES ARE NEARLY LIMITLESS. BUT FIRST. OUR INDUS-TRY HAS THE DAUNTING TASK OF GETTING OUR INFRASTRUCTURE THERE. THIS IS ALREADY HAPPENING WITH MANY CITIES RUNNING TRIALS OR FULL ROLL-OUTS OF 5G. THERE IS A LOT THAT MUST BE DONE TO SET THE FOUNDATION FOR 5G AND IT IS GOING TO TAKE TRAINED TECHNICIANS. ENGINEERS. SITE ACQUISITION SPECIALIST. CARRIERS, MUNICIPALITIES, AND OEMS COLLABORATING TO MAKE IT HAPPEN. HUNDREDS OF THOUSANDS OF MILES OF FIBER BACKHAUL. THE BUILD OUT OF ULTRA-DENSE NETWORKS, AND UPGRADING EX-ISTING MACRO SITE TECHNOLOGIES ARE AN EXAMPLE OF SOME OF THE WORK THAT IS ONGOING. HOW WILL 5G IMPACT THE ICT SEC-TOR, AND MORE IMPORTANTLY WHAT DO THESE CHANGES MEAN FOR THOSE WHO WORK IN THE TELECOMMUNICATIONS INDUSTRY? WE HAVE THE ANSWERS TO SOME OF THOSE QUESTIONS AND WILL SPEC-ULATE ON OTHERS. LET'S DISCUSS THIS EXCITING NEW WAVE OF TECHNOLOGY. ITS IMPACT ON END USERS. AND THE PERSONNEL IN OUR INDUSTRY. PATRICK MCNERNEY IS THE CHIEF OPERATING Officer of 3D Design & Engineering

Attendee Testimonials

"This training taught me new ways to efficiently do my job and will open the door to greater opportunities. It is well worth the money and time!" Roger Hopp, MCEI, Radio Technician, City of Cleveland Ohio

"I found the networking aspect to be the most valuable aspect of having Education Forum in conjuncture with IWCE. I took the Microwave Radio Technician class because in the county that I work for, we recently installed new microwaves and it became evident that we needed to learn more about them. The instructor was incredibly knowledgeable and engaged the class by asking about our system configurations, which made the material relatable."

Jamin Howell, Wireless Communications & Network Technician, Flathead Emergency Communications Center



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5GT - 5G Technician: An Introduction to 5G...\$495

backgrounds in engineering, construction, cell carriers, broadcasting case studies provided by a committee of subject matter experts with get a first-hand look at industry standards, real world examples and helpful videos and other visual aids to written material. Attendees will application. This course will be taught using a variety of media, from cians the opportunity to earn a certification that has valuable industry The course serves as an introduction to 5G and gives cellular techni-

CTa - Associate Certified Electronics Technician...\$475

electronics industry and includes extensive hands-on training. give you all of the necessary skills in order to be successful in today's This two-day workshop is a comprehensive hands-on course that will

PAS - Distributed Antenna Systems...\$89

and entertainment.

tion, a simple install, a simple antenna design, and how to identify building DAS. Hands-on training will concentrate on connector installatal theories, components, installation, maintenance, and support of in-This two-day course is for anyone interested in learning the fundamen-

GCT1 - General Communications Technician...\$899 cabling problems.

tions. This course will help communications technicians work within the radio communication technicians during all-hazards emergency opera-This two-day workshop trains practices and procedures common to

network computing environments.

ITS - Information Technology Specialist (Cybersecurity)...\$899 Incident Command System (ICS) organizational structure.

be made aware of attack vectors, tools and techniques used to Pentest any network environment - including wireless networks. They also will defense in-depth strategy for implementing cybersecurity solutions to This three-day workshop will provide the attendee with a complete

good through November 8, 2018. * All prices are at early bird rate, which is



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PAS - Line Antenna Sweep...q99

air to a receiver.

output of a radio transmitter and eventually are propagated into the knowledge in order to test and evaluate RF signals that begin at the beyond traditional line sweep and PIM testing and provides all the This frequency domain reflectometer two-day hands-on course goes

MRT - Microwave Radio Technician.....\$899

mance, installation and maintenance of microwave and millimeter course is newly designed addressing the changes in roles, perforquencies will be used for more applications and new services. This As we move towards 5G and FirstNet implementation, microwave fre-

PIM - Passive Intermodulation Testing.....\$495 wave radios.

tween PIM testing and other antenna testing techniques. student will learn what PIM is, how it is tested and the difference beinstallations in an effort to increase call quality and data rates. The Wireless carriers are requiring PIM testing at new sites and existing

R56 - Communications Site Installer...\$1169

& guidelines for designing safe and reliable communications sites. ards, this four-day workshop provides a documented set of standards Based on the NEW Motorola updates of R56 industry codes and stand-

RFIM - RF Interference Mitigation...\$899

clude interference hunting tools, the use of monitoring receivers, spectypes, propagation and spectrum allocation. Practical applications in-This course begins with an overview of basic RF principles, signal

STS—Smart Technologies Systems...\$1099

trum analyzers and drive test tools.

powered devices and systems management software configuration of Hands on labs will include configuration of Power over Ethernet (PoE) ing Control/Data Systems; Facility Management Systems Conditioning Systems and Electric Power Management Systems, Lighttems and Video Surveillance Systems; Heating, Ventilating and Air works and Voice Networks; Fire Alarm Systems, Access Control Sys-The following key areas will be discussed: Audio and Video; Data Net-

the devices.

