

23rd ITEA Test and Training Instrumentation Workshop

Shaping the Future of T&E

04/30/19 REV F

14-May First Day - Tutorials

Florentine E:

- 8:00 a.m. Troubleshooting Ethernet Data with Wireshark - *Paul Ferrill, ATAC Corporation*
- 12:00 p.m. Lunch on Own
- 1:00 p.m. iNET Telemetry Networks - *Thomas Grace NAVAIR & Ben Abbott, SwRI*

Florentine F:

- 8:00 a.m. Accelerating the Analysis of Test Data Using Effective and Efficient Experimentation - *Mark J. Kiemele, PhD, Air Academy Associates*
- 12:00 p.m. Lunch on Own
- 1:00 p.m. The TENA and JMETC Solution for Distributed Test and Training - *Gene Hudgins, TENA*

Florentine G:

- 8:00 a.m. Basics of Aircraft Instrumentation Systems (Part 1) - *Bruce Johnson, Naval Air Warfare Center Aircraft Division (NAWCAD)*
- 12:00 p.m. Lunch on Own
- 1:00 p.m. Basics of Aircraft Instrumentation Systems (Part 2) - *Bruce Johnson, Naval Air Warfare Center Aircraft Division (NAWCAD)*

Tuscany:

- 8:00 a.m. Introduction to Agile Test and Evaluation - *Jennifer Rekas, The MITRE Corporation*
- 12:00 p.m. Lunch on Own
- 1:00 p.m. Long Term Evolution Advanced (LTE-A) 4G Cellular Technology: Network Architecture, Physical Layer Structure and Procedures, and Signaling Aspects - *Achilles Kogiantis, PhD, & Kiran Rege, PhD, Perspecta Labs*

Firenze:

- 8:00 a.m. Video and Video Compression - *Gary Thom, Delta Information Systems*
- 12:00 p.m. Lunch on Own
- 1:00 p.m. Real World Telemetry over IP - *Gary Thom, Delta Information Systems*

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Siena:

8:00 a.m. IRIG 106-17 Chapter 7 Packet Telemetry Downlink Basis and Implementation Fundamentals
- Johnny Pappas, Zodiac Data Systems, Inc.

*Please join us for the soft opening of the exhibit hall at 4:00pm.
Happy Hour will begin at 5:00pm.
Come get an early glimpse of the exhibits and network with your peers!*

Sponsored by:



15-May Second Day - Plenary Session, Technical Sessions, Exhibits, & Reception

9:00 a.m. Welcome:
Mr. Bill Keegan – ITEA President
STAR Spangled Banner
Mr. Chris Klug, TIW Program Chair

9:15 a.m. Keynote Speaker: Brigadier General Christopher P. Azzano, Commander, Air Force Test Center, Edwards Air Force Base – ***“Test and Evaluation for the Modern Battle Space”***

The nature of warfare is changing, creating new challenges and opportunities which must be tested, vetted, and proven by the Test and Evaluation (T&E) community. The process and methods used to conduct T&E in the past must be updated to overcome future challenges and demands of multi-domain operations. T&E methods and the acquisition process need to evolve to support emerging technologies like hypersonics, autonomous systems, agile software development, and space-related capabilities. The T&E community must look “lead-time” into the future to be ready to test new systems and provide our warfighter with the best capabilities to meet the National Defense Strategy in an ever-changing global security environment.

10:00 a.m. Break in the exhibit hall

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10:30 a.m. Technical Track Sessions

Track A: Airborne Instrumentation 1: Wireless Instrumentation				
Florentine A	10:30 AM	Joe Dale, 812 AITS Edwards AFB	Hai Le, 812 AITS, Edwards AFB	<i>Commercial-off- the-Shelf Wireless Systems to test the feasibility of Wireless instrumentation</i>
	11:00 AM		Ben Baird, 896 TSS, Eglin AFB	<i>Wireless Control and Status of High Speed Camera Pod</i>
	11:30 AM		Robert Bieze, JT4 LLC, Edwards AFB	<i>Distributed Acquisition Wireless Network (DAWN)</i>
Track E: Mission Control 1: Virtual Architecture				
Florentine E	10:30 AM	Bill Rauch, 412 RANS Edwards AFB	Thomas Kegel, 412th RANS, Edwards AFB	<i>Growing Distributed Test Support</i>
	11:00 AM		Sean Conway & Alan Anderson, 412th RANS, Edwards AFB	<i>Virtual Architecture 101</i>
	11:30 AM		Alan Anderson, 412th RANS, Edwards AFB	<i>Video Performance in a Virtualized Environment</i>
	12:00 PM		Michael Lockard & Christopher Moyer, DELL EMC	<i>Virtualization Success: RAPIDS</i>
Track C: RF Telemetry 1: Future Spectrum Technology				
Florentine F	10:30 AM	Thomas O'Brien, Test Resource Management Center	Guenever Aldrich, Spectrum Reallocation Office, Department of the Navy	<i>Electromagnetic Spectrum Reallocation</i>
	11:00 AM		Eric Beck, Shobha Erramilli, William H. Johnson, Achilles Kogiantis, Jenny Maung, Kiran Rege, Anthony Triolo, Jeffrey Young, Perspecta Labs	<i>Cellular Range Telemetry Network: Field Test Results Overview</i>
	11:30 AM		Achilles Kogiantis, Kiran Rege, Anthony Triolo, Perspecta Labs	<i>Cellular Test Range Telemetry Enhancements with the Introduction of 5G technology</i>
	12:00 PM		Mark Radke & Tom Young, T&E S&T - Spectrum Efficient Technology, Edwards AFB, CA	<i>Challenges in Implementing Telemetry over LTE</i>
Track G: Data Analytics 1: Big Data Techniques				
Florentine G	10:30 AM	Daniel Osborne, 412 TW Edwards AFB	William Williams, Test Resource Management Center	<i>Knowledge Management and the Big Data Evaluation Revolution with the F35</i>
	11:30 AM		Michael Elliott, 812 AITS Edwards AFB	<i>Data Center of Tomorrow</i>
	12:00 PM		Jeffrey Corn, 812 TSS Edwards AFB	<i>DoD Cloud Strategy Overview</i>
Track H: Test Support 1: Program Management				
Firenze	10:30 AM	Randy Doring, JT4	April Fowler, 896th Test Support Squadron & Michael Polucha, 896th Test Support Squadron, Eglin AFB	<i>Applying Theory of Constraints and Critical Chain Project Management Principles to Aircraft Modifications</i>
	11:00 AM		Archie Clark, Project Management Branch, 412 TW/TMGG	<i>Controlling Work in Progress (WIP) - The Multi-Project Portfolio Scheduling Process</i>
	11:30 AM		Craig Hatcher, 412 Test Wing, Edwards AFB	<i>A Conceptual Framework for Flight Test Management Utilizing Agile Development and Project Management Concepts</i>

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Track B: Range Instrumentation 1: Special Topics				
Tuscany	10:30 AM	Arlene McKee, 96 RNCS Eglin AFB	Stanley Pitchford, 96th RNCS, Eglin AFB	* Multi-Caveat Security (MCS) Limited Distribution Level C
	11:00 AM		Gene Hudgins, TENA / JMETC Office, TRMC	TENA/JMETC Solutions for Distributed Test and Training
	11:30 AM		Maj Kyle Bergren, ET CTF, Edwards AFB	Emerging Technologies Combined Test Force: Future Range Capabilities
	12:00 PM		Alvia Sandberg, Missile and Sensors Test Directorate, US Army Redstone Test Center	Missile Application Condensed Message Discussion Forum
Track D: Cyber 1: Cyber Table Top (CTT) and Accrediation Techniques				
Siena	10:30 AM	Anthony Rubino, 412 RANS Edwards AFB	Megan Fisher, JT4 LLC/ATAC, 812th AITS, Edwards AFB	Cyber Tabletop (CTT) processes
	11:30 AM		Paul Waters, PhD, 412 Test Wing, Edwards AFB	Airborne Instrumentation Cyber Table Top Lessons Learned
	12:00 PM		Todd Jacob, 812 AITS, Edwards AFB	Accreditation of Instrumentation Systems and a Few Ways Vendors Can Help

12:30 p.m. **Luncheon Speaker:** Brigadier General David W. Snoddy, Vice Commander, Air Force Warfare Center, Nellis AFB– **“U.S. Air Force Warfare Center’s Vice Commander Shares Insights on T&E Engagement”**

Come enjoy lunch in the exhibit hall. Brigadier General Snoddy will begin speaking at 1:00pm., Relax during lunch as you enjoy Brigadier General David W. Snoddy’s speech on TBD. Brigadier General Snoddy is the Vice Commander of the Air Force Warfare Center at Nellis Air Force Base. Lunch will be served at 12:30pm and he will begin promptly at 1:00pm.

1:30 p.m. **Technical Track Sessions**

Track A: Airborne Instrumentation 2: Special Topics				
Florentine A	1:30 PM	Al Berard, 96 RANSS Eglin AFB	Jim Alich, 812 AITS, Edwards AFB	Using Batteries to Power Data Systems and Sensors
	2:00 PM		Al Berard, 96 RANSS, Eglin AFB	Quick reaction Air To Air Flight Termination System
	2:30 PM		Al Berard, 96 RANSS, Eglin AFB	Energy Harvesting Transducers
	3:00 PM		Al Berard, 96 RANSS, Eglin AFB	F15 EPAWSS Real Time Network Data Filtering
Track E: Mission Control 2: Virtualization Lessons Learned Round Table Discussion				
Florentine E	1:30 PM	Bill Rauch, 412 RANS Edwards AFB	Bill Rauch & Tom Kegel, 412 RANS Edwards AFB	Virtualization Lessons Learned Round Table Discussion

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Track C: RF Telemetry 2: Antenna Developments				
Florentine F	1:30 PM	Mark Radke, Bevilacqua Research Corporation	Max Apalboym, Airborne Instrumentation Systems Division, NAS PAX River	<i>Broadband Conformal C-Band Antenna Project</i>
	2:00 PM		Tariq A. Mujahed, Toyon Research Corporation	<i>Conformal L,S,and C-Band Antennas</i>
	2:30 PM		Scott Kujiraoka, GBL Systems; J. Kyle Roudebush, Jose Hernandez and Kenneth Sanchez, NAVAIR-Point Mugu; Michael Pace, Raytheon Albuquerque	<i>Latest Development Status on the Commercial Derivative Aircraft Based Instrumentation Telemetry System (CBITS) Program</i>
	3:00 PM		Kevin Cook, Georgia Tech Research Institute	<i>Steered Conformal Array for the Rotating Airframe Missile</i>
Track G: Data Analytics 2: Data Analysis Tools				
Florentine G	1:30 PM	Thomas Treakle, Dell EMC	Jeffrey Corn, 812 TSS Edwards AFB	<i>DoD Artificial Intelligence Strategy Overview</i>
	2:00 PM		Phillip Rogers, 412 Test Wing Edwards AFB	<i>412 Test Wing Data Analysis via Open Source Tools</i>
	2:30 PM		Matt Smith, Dell EMC	<i>KM/RAPIDS; ETL/Data Ingest</i>
	3:00 PM		Christopher Klug, 412 Operations Group Edwards AFB	<i>Lessons Learned from Developing Orange Flag Evaluation Data Analysis Tools</i>
Track H: Test Support 2: Production Facilities for RDT&E Special Session				
Firenze	1:30 PM	John "JB" Esch AF Plant 42 Palmdale CA	John "JB" Esch, Air Force Plant 42, Palmdale CA	<i>AF Industrial Properties: Supporting Warfighters of Today and Tomorrow</i>
Track B: Range Instrumentation 2: TSPI Techniques for Test and Evaluation				
Tuscany	1:30 PM	Alvia Sandberg, Redstone Test Center	Alfredo Berard, 96 RANSS, 96 TW, Eglin AFB	<i>Gulf Range TSPI Instrumentation System (GRITS)</i>
	2:00 PM		Alvia Sandberg, Missile and Sensors Test Directorate, US Army Redstone Test Center	<i>JAMI and TENA - A Fusion of GPS and IP</i>
	2:30 PM		Nick Cooper and Dave Stephens, QinetiQ UK	<i>The Benefits of Modernized GNSS in T&E</i>
Track D: Cyber 2: Cyber (NIST/DoD) Focused Engagement				
Siena	1:30 PM	Anthony Rubino, 412 RANS Edwards AFB	Paul Waters, PhD, 412 Test Wing, Edwards AFB	<i>RCC Cybersecurity Group – Threats Vulnerabilities and Mitigations</i>
	2:00 PM		Marc Holley, 412 RANS Security Operations Center	<i>Cyber Career Training Path and Way Forward</i>
	2:30 PM		Bruce Johnson, AVMI, NAS Patuxent River	<i>Navigating Airborne Instrumentation Systems Authority to Operate (ATO) requirements</i>
	3:00 PM		Todd Jacob, 812 AITS Edwards AFB	<i>Cyber Policies, Procedures and Documents (PPD)</i>

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3:30 p.m. Break in the exhibit hall

4:00 p.m. **Technologies Enabling AMT Operations in Non-Traditional Bands** – Moderated by Thomas O’Brien, Test Resource Management Center

Panelists:

- Mark Wigent, Laulima Systems LLC
- Kevin Cook, GTRI
- Tony Triolo, Perspecta Labs

5:30 p.m. Reception in the Exhibit Hall

16-May Third Day - Plenary Session, Technical Sessions, & Exhibits

8:30 a.m. **STEAMhack™ Chain Reaction Challenge** – Middle Schools and High Schools compete to see who can build the most impressive chain reaction-style machine based on their team’s pre-contest design.

9:00 a.m. Welcome to Day 3: Chris Klug, TIW Program Chair
Tim Chalfant, TIW Technical Chair

9:15 a.m. Keynote Speaker - Brigadier General E. John Teichert - Commander, 412th Test Wing, Edwards AFB – **“An Innovation Movement”**

Innovation grasps for agility and takes nothing for granted. Our nation relies upon us to innovate because the future will look nothing like the past. The warfighter and our nation’s future depends upon us to develop a culture of innovation today!

10:00 a.m. Break in the exhibit hall

10:30 a.m. Technical Track Sessions

Track A: Airborne Instrumentation 3: Advances in Sensors				
Florentine A	10:30 AM	Bruce Johnson, NAS Patuxent River	Al Berard, 96 RANSS, Eglin AFB	<i>Determination of Attitude in MANPAD Type Missiles</i>
	11:00 AM		Sidney Jones, NAVAIR	<i>All-weather Strain Gage Protection Test Results</i>
	11:30 AM		Russell S. Bauldree, 96 Test Wing; Samir Ibrahim, 96 Range Group; Philip Richmond, 782 Test Squadron, Eglin AFB	<i>SkyTherm</i>
	12:00 PM		Jakub Moskal & Mitch Kokar, VISTology, Inc.; Austin Whittington & Ben Abbott, SwRI; Jon Morgan, JT4, LLC, Edwards AFB	<i>Building Multi-Vendor T&E Systems in iNET</i>

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Track E: Mission Control 3: New Techniques				
Florentine E	10:30 AM	Bruce Lipe, NASA Armstrong	Kevin Knudtson, NASA Armstrong Flight Research Center	<i>Using GPS Receiver IPPS Output to Verify Time Stamp Accuracy and Measure Propagation Delay</i>
	11:00 AM		John C. Bretz, Symvionics, Inc	<i>Progress in the Migration of Flight Test Analysis Routines to Python</i>
	11:30 AM		Paul Waters, PhD, 412 Test Wing, Edwards AFB	<i>Vision and Challenges of a Networked Telemetry Environment</i>
Track C: RF Telemetry 3: Network Applications				
Tuscany	10:30 AM	Thomas Grace, AVMI NAS Patuxent River	Thomas Grace, AVMI, NAS Patuxent River	<i>Using TmNS Based Systems on the Range</i>
	11:00 AM		Joseph Martin, Air Vehicle Modification Instrumentation, NAVAIR	<i>Evaluating the Effectiveness of Tracking Test Aircraft Using C-Band TM signals</i>
	11:30 AM		Dr. Ali Namazi & Dr. Chujen Lin, IAI	<i>NRES: Non-Blocking Ruggedized Ethernet Switch for Airborne Applications</i>
	12:00 PM		Mark Wigent, Laulima Systems	<i>The DNA of a Network Flight Recorder</i>
Track D: Cyber 3: Cyber T&E				
Siena	10:30 AM	Harry Cooper, JT4	Robert Hill, 896 TSS Eglin AFB	<i>Risk Management Framework (RMF) for Airborne Test Instrumentation Updates</i>
	11:00 AM		Jeff Rusincovitch, Safran Aerosystems Data Systems	<i>A Vendor Perspective in Support of Cybersecurity of Information Systems</i>
	11:30 AM		Jason Schalow, 412th CS, Edwards AFB	<i>Getting Inside the Cyber OODA Loop: Agile T&E Support in Cyberspace</i>
	12:00 PM		Georgianna K. Shea, PhD, The MITRE Corporation	<i>Defensive Cyber Operations Testing During Systems Development</i>

12:30 p.m. Lunch with the Exhibitors and STEAM Awards

1:30 p.m. Technical Track Sessions

Track A: Airborne Instrumentation 4: Special Topics II				
Florentine A	1:30 PM	Chris Stewart, 896 Test Support Squadron, Eglin AFB	Brian Keating, Aircraft Instrumentation Division (AIR 5.2.9), NAS Patuxent River	<i>Succession Planning for Airborne Instrumentation</i>
	2:00 PM		Chris Stewart & Bruce Lowmiller, 896 Test Support Squadron	<i>Technical Training for Airborne Instrumentation Engineering</i>
	2:30 PM		Abigail (Abbe') Reuter, Airworthiness Director of Engineering/Delegated Technical Authority, Air Force Test Center	<i>Airworthiness Assessment for Contractor Owned Contractor Operated Instrumentation Systems</i>
	3:00 PM		Jeffery Hite, 812 AITS	<i>F-35 Quick Response Instrumentation Package</i>

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Track E: Mission Control 4: Serial Streaming Telemetry (SST) Transmitter C2 Forum				
Florentine E	1:30 PM	Tim Chalfant, Colsa	Ron Pozmantier, 412 TENG/ENI	<i>Command and control (C2) of Serial Streaming TM (SST): Open Issues for Achieving Interoperability II</i>
	2:00 PM		Tim Chalfant, Colsa Corporation	<i>Real-time Test Article Telemetry Frequency Agility; Problems and Issues Forum</i>
Track C: RF Telemetry 4: Spectrum Modeling, Utilization and Visualization Tools				
Florentine F	1:30 PM	Benjamin Tomlinson, 812 AITS, Edwards AFB	Michael Painter, P.E., Kannan Swaminathan, P.E., Kalyan Vadakkevedu, Satheesh Ramachandran, Ph.D., Knowledge Based Systems, Inc.; Charles H. Jones, PhD, C. H. Jones Consulting, LLC	<i>Spectrum needs Estimation Using Different Methods</i>
	2:00 PM		Mark Wigent, Laulima Systems	<i>Spectrum Usage Measurement System (SUMS)</i>
	2:30 PM		Satya Ponnaluri, PhD, IAI	<i>Enhancements to Channel Model Tool Based on Bidirectional Analytic Ray Tracing and Radiative Transfer (CBAR)</i>
Track B: Range Instrumentation 3: Common Range Integrated Instrumentation Systems (CRIIS)				
Florentine G	1:30 PM	Brian Duhart, 412 Test Wing Edwards AFB	Dennis Quirao, CRIIS Program Office, Eglin AFB	<i>CRIIS Status and Progress</i>
	2:00 PM		Robert Wolterman, Collins Aerospace	<i>Discussing Lessons Learned integrating CRIIS with External Systems</i>
	2:30 PM		Dick Dickson, Dynetics, Tri-Service GPS Sustainment Management Office	<i>Tri-Service T&E Range Integration and Certification Challenges for the "Common Range Integrated Instrumentation System" (CRIIS) Hardware/Software Suite</i>
	3:00 PM		Dick Dickson, Dynetics, Tri-Service GPS Sustainment Management Office	<i>Tri-Service GPS Sustainment Management Office-Transition and Preparation for the "Common Range Integrated Instrumentation System" (CRIIS) Sustainment Activities</i>
Track H: Test Support 3: Acquisitions, History, and Culture				
Tuscany	1:30 PM	David Smith, 412 Test Wing Edwards AFB	Jacob C.K. Arola, Engineering Support Branch, Directorate of Contracting, Air Force Test Center (AFTC), Edwards AFB	<i>Rapid Acquisition Methods</i>
	2:00 PM		Stephanie M. Smith, PhD, History Office, Edwards AFB	<i>Weaponizing Air Force History and Archives</i>
	2:30 PM		Jason Korman, Gapingvoid Culture Design Group	<i>Designing Cultures to Steer Innovation</i>
Track D: Cyber 4: Mission Voice Communication Cyber Security Round Table				
Siena	1:30 PM	Bill Rauch, 412 RANS Edwards AFB	Bill Rauch, 412 RANS Edwards AFB	<i>* Mission Voice Communications Cybersecurity Round Table Limited to DoD & DoD contractor only or by invitation</i>

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1:30 p.m. *** Mission Voice Communications Cyber Security Roundtable Discussion** - Mr. Bill Rauch, 412th RANS/ENRE

*This Round Table will center on the deployment and Cyber Security accreditation of Compunetix Mission Voice Communication Systems. The discussion will provide the attendees an opportunity to discuss the issues, lessons learned, problem areas experienced and solutions, successes and failures associated with the deployment and accreditation of Range Mission Voice Communication Systems. Key Points: Compunetix Centric discussion, deployment successes, lessons learned, Cyber security approaches, RMF concerns, and Telemetry “Hot Mike” solutions. **This session is limited to DoD and DoD contractor Only. However, if you are not in a DoD related organization you may contact Mr. William Rauch at William.Rauch.4@us.af.mil for a special invitation.***

3:30 pm Break in the exhibit hall – **Last Chance to meet with Exhibitors**

4:00 pm **Shaping the Future – Ensuring Relevance to the Future Fight Through Innovation, Governance, and Culture Change** – Moderated by Chris Klug, 412th Operations Group Technical Advisor

An Observed Discussion between the people that are actively engaged in shaping the future of Flight Test. The National Defense Strategy has an “...intent to pursue urgent change at significant scale” while calling on us to “Deliver performance at the speed of relevance”, “Organize for innovation”, and “...transition to a culture of performance...”. Flight Test leaders and Subject Matter Experts will discuss their challenges, successes, and opportunities in implementing Innovation, Governance, and Culture Change in support of the National Defense Strategy.

Panelists:

- Brigadier General E. John Teichert, Commander, 412th Test Wing, Edwards Air Force Base
- Brian “Beam” Maue, PhD, CEO, AFWERX
- Jason Korman, CEO, Gapingvoid Culture Design Group
- Col. Scott Cain, Commander, Arnold Engineering Development Complex

Exhibit Hall Hours

Monday, May 13th – 11:00am – 5:00pm, Exhibitor Set-up

Tuesday, May 14th – 8:00am – 3:00pm, Exhibitor Set-up (**Hall opens at 4pm. Happy Hour at 5pm**)

Wednesday, May 15th – 9:00am – 7:00pm (Networking Reception 5:30pm-7:00pm)

Thursday, May 16th – 9:00am – 4:00pm

Thursday, May 16th – 4:00pm – 8:00pm, Exhibitor Move-out

Program Planning Committee (TIW@itea.org)

Program Chair: Mr. Chris Klug – Southern Nevada Chapter

Technical Chair: Mr. Tim Chalfant– Southern Nevada Chapter

Exhibits and Sponsorships: Mrs. Lena Moran – 951-219-4817

Registration: James Gaidry, ITEA Executive Director - 703-631-6220, FAX: 703-631-6221

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Host Hotel

[The Tuscany Suites and Conference Center](https://www.tuscanylv.com)

255 E. Flamingo Road | Las Vegas, NV 89169 | Phone: 877-887-2261

ITEA has negotiated a below per diem rate of \$72 per night. Book online at <https://www.tuscanylv.com>, or call 1-877-887-2261 – Group code **1522V8**.

Room Block extended to May 1st