



AIAA-RM Annual TECHNICAL SYMPOSIUM

3rd Annual ATS - October 24th, 2014

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Primary Sponsor:



More information at the AIAA Rocky Mountain website: <http://www.aiaa-rm.org/>



Diamond Sponsor: Lockheed Martin Space Systems Company




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Space is a place without limits. A frontier where peacekeepers, explorers, weather watchers, and climate monitors use Lockheed Martin systems to learn more and do more. A proving ground where each mission expands our ability to achieve technical and scientific breakthroughs. On Earth. In orbit. And beyond.

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ACCELERATING
TOMORROW

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Platinum Sponsor: Ball Aerospace



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The WorldView-3 imaging satellite built by Ball Aerospace for DigitalGlobe is going above and beyond to see the world like never before. The advanced capabilities aboard WorldView-3 are returning the most accurate, high- resolution commercial satellite imagery available. These data-rich images will benefit a diverse range of industries from agriculture to transportation and our national security.

WorldView-3 image of Madrid, Spain
courtesy, DigitalGlobe

Ball Aerospace & Technologies Corp.

Agility to Innovate
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www.ballaerospace.com

Participating Organizations

<http://www.usafa.edu/> United States Air Force Academy



UCCS College of Engineering
& Applied Science

<http://eas.uccs.edu/>

United States Air Force Academy STEM Club



Sponsors and Exhibitors



Lockheed Martin Space Systems Company

Ball Aerospace



Ball Aerospace
& Technologies Corp.



Dept. of Mechanical and Aerospace Engineering, UCCS

Red Canyon Engineering & Software



Engineering Systems Inc.

TMC Design 



Webster University

EAS Online Graduate Programs, UCCS

 Online Graduate Programs
College of Engineering
and Applied Science



Colorado Space Business Roundtable

Surrey Satellite Technology US LLC



Global Design Solutions
A Concept Research and Development Company

Global Design Solutions Inc.

Dept. of Mechanical Engineering, UofW



ARES Corporation

United Launch Alliance 
United Launch Alliance



Message from the 2014 AIAA-RM ATS Chair

Ladies and Gentlemen,

Reflecting the mandate that professional societies should serve their communities, the AIAA Rocky Mountain Section is proud and very pleased to offer you, our membership, a section-wide event to call your own. The 2014 AIAA-RM Annual Technical Symposium, the third in hopefully a long line, is being hosted to highlight new ideas, methodologies, concepts, and technical innovations home grown here, in the local community. Sharing these concepts at a local level will create new and bolster existing partnerships to promote growth and national competitiveness in the Rocky Mountain Section. The purpose of this event is to establish flagship visibility for the creativity, resourcefulness, and competency of our local personnel, companies, and institutions and to sustain a dialog between these groups for mutual support and progress. Participants and attendees at this event will include neighbors and potential collaborators throughout the area whose proximity and availability make them as-of-yet unrealized solutions to tomorrow's challenges.

I would like to take this opportunity to thank those who have made this event possible, particularly a tireless and talented team of volunteers, to whom I am greatly indebted and without whom this event would not be possible. I would like to thank Dr. Jim Reilly for participating in this year's event. I would also like to thank our sponsors and affiliated organizations. Please take a moment to check this document for a list of these groups and remember to express your thanks in person on October 24th. Specifically, I would like to recognize Lockheed Martin Space Systems Company, Ball Aerospace, and the University of Colorado Colorado Springs. LMSSC has, for the third year, shown its dedication to investing in the community and developing valuable partnerships by substantial sponsorship of this event. Through LMSSC and Ball's leadership, the Section, as a whole, has a venue to exchange concepts, promote ideas, and network solutions. Similarly, I would like to thank UCCS for showing its established leadership in growing Colorado's technical expertise by opening its doors to this event and assisting in its planning and execution.

The AIAA-RM is happy to recognize UCCS' ongoing role in research, innovation, and education of Aerospace in the state of Colorado.

We look forward to your feedback on the event, its successes, and the areas where it may miss the mark. It is vital to our community, if we are to serve it faithfully, that we close the loop with our constituency and continue to evolve this event into what you need it to be. The Organizing Committee has worked diligently this year to assure relevance and interest in the technical program while maintaining broad applicability and minimal cost to attendees. This year's agenda includes approximately 60 technical presentations from local companies, students, and research groups. In addition to traditional presentations, four panel sessions will be held on career advancement, the direction of the industry, CO initiatives, and our responsibility to the next generation. The symposium will also include a keynote presentation on manned spaceflight, food, snacks, and an after-symposium event sponsored by Bristol Brewery.

This event has been designed to establish local connections and to promote local success. Please help us create an engaging opportunity for every facet of the community, from new professional to seasoned manager, from startups to Fortune 500s, and from educators to executors. I look forward to seeing you all at the 2014 Annual Technical Symposium.

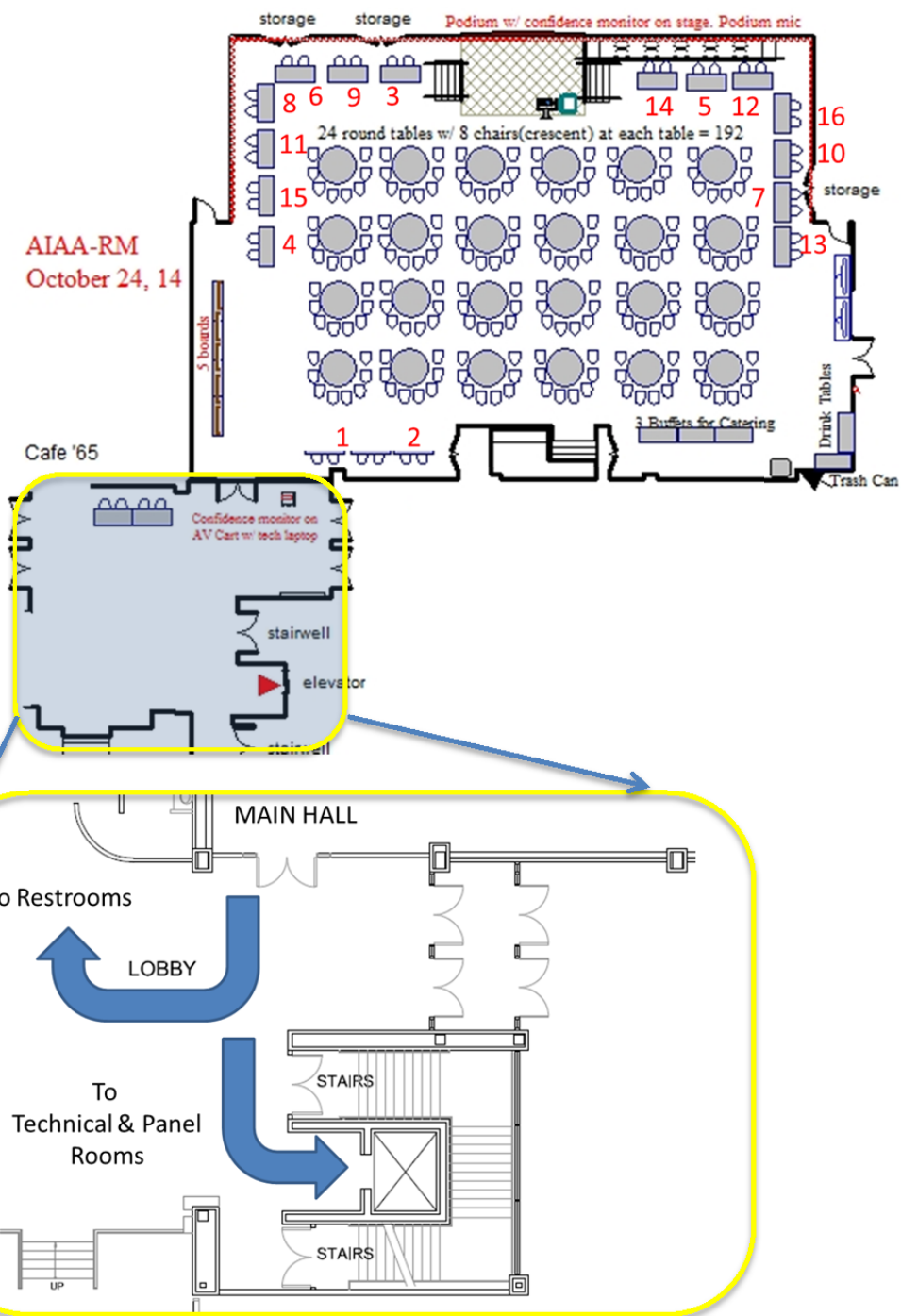
Taylor Lilly, PhD
AIAA-RM Southern Vice Chair

Layout & Agenda

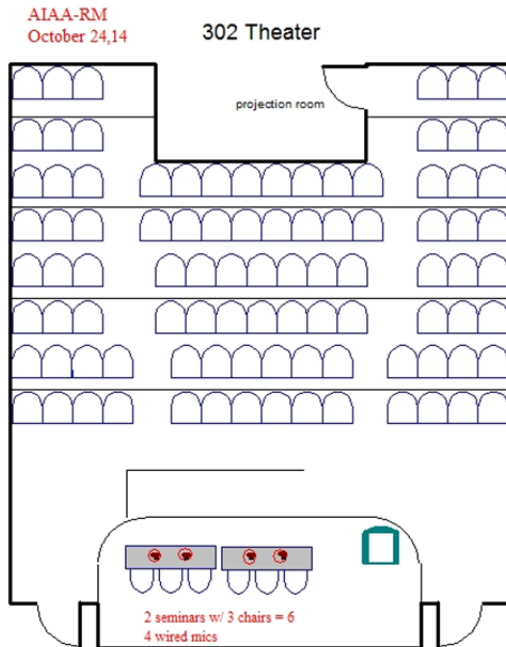
October 24th, 2014

SETUP STARTS AT **0730** REGISTRATION STARTS AT **0800**

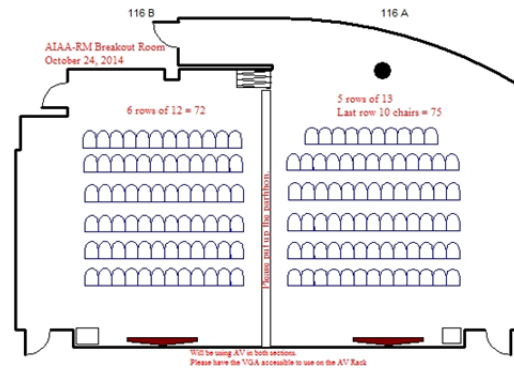
1. LMSSC
2. Ball
3. CSBR
4. UCCS MAE
5. Red Canyon
6. ESI
7. TMC Design
8. Webster
9. UCCS EAS
10. SST US LLC
11. GDS
12. USAFA
13. USAFA STEM
14. U. of WY
15. ARES Corp.
16. ULA



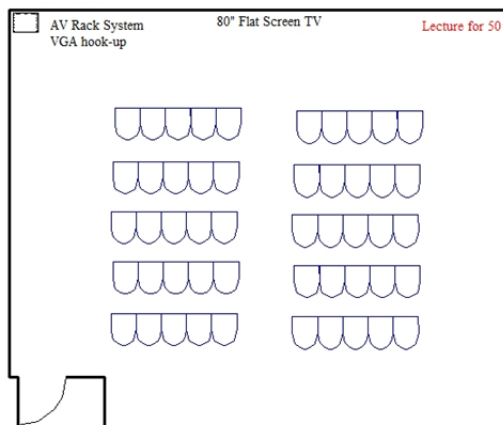
PANEL SESSIONS (UC302)



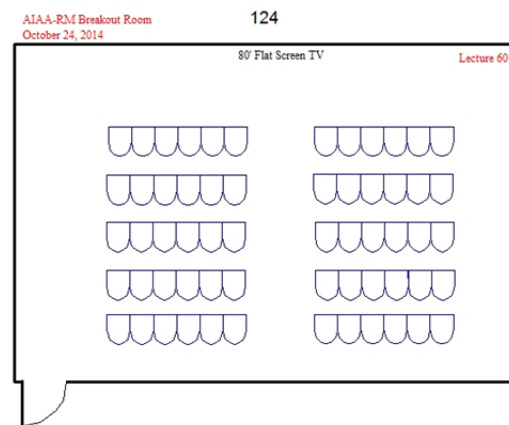
TECHNICAL A & B (UC116A&B)



TECHNICAL C (UC122)



TECHNICAL D (UC124)



Time	Technical Presentations				Panel Sessions
	A	B	C	D	
9:00 AM	Welcome and Opening Remarks (Berger)				
9:30 AM	SE	Education	Aero	Space Exploration	
	Optimizing Strategic Technology Planning with system lifecycle design	Blasterbotica, the NASA Robotic Mining Competition Team from the Colorado School of Mines	Wind Tunnel Evaluation of Static Stability of SURG MAVs	Melanin as a Barrier Against Ionizing Radiation	
	30	43	25	47	
9:55 AM	Satellites	Dynamics	Aero	Space Exploration	
	Multidisciplinary Tracking and Discrimination Demonstration	USAF ACES II EJECTION HISTORY & INJURY RISK, 1978 to 2013	Aero-Optical Simulations of a Generic Turret Configuration	Students for Interplanetary Travel and Habitation: Mars	
	52	20	26	24	
10:20 AM	Satellites	Propulsion	Dynamics	Health monitoring	1
	Flying Underground	Applications of Droplet Stream Momentum Transfer in Space	Manipulating Natural Frequencies with Tunable Spring Masses	Locata Technology - A GPS Alternative in Civil and Commercial Environments	
	40	10	49	74	
10:45 AM	Satellites	Propulsion	Dynamics	Health monitoring	same
	Solar Panel Power Generation in a Tumbling 1U CubeSat	Design and Analysis Tools for Deployable Space-Based Structures	Analyzing PID Control of a Line-Following Robot	Global Visualization Information System – Terminal (GVIS-T)	
	13	21	14	75	
11:10 AM	Satellites	Propulsion	Dynamics	Health monitoring	
	Drag Measurements in a Simulated Low-Earth Orbit Environment	Kinetic Energy Transfer of Near-Earth Objects for Interplanetary Manned Missions	Characterization of Self-Excited, Asymmetric, Spinning, Rigid-Body motion as an Oblate Epicycloid	Orbital Satellite Relay Test Bed for Prognostics and Health Management Development	
	35	11	15	70	
11:35 AM	Keynote Address and Lunch (Berger)				
12:35 PM	Lockheed Sponsor Presentation (Berger)				

Time	Technical Presentations				Panel Sessions
	A	B	C	D	
1:25 PM	Policy	Environment	Manufacturing	CFD	2
	Space Policy and Responsive Launch	Front Range air quality: airborne results as prelude to space	Partnering for Success: How the Oil & Gas and Aerospace industries can benefit each other.	Using LES in a Discontinuous Galerkin method	
	76	31	1001	73	
1:50 PM	Policy	Environment	Manufacturing	CFD	same
	OEDIT - Advanced Industry Initiatives	Predicting Large Solar Flares: Are we ready for the big one?	Additive Manufacturing in Aerospace	Elliptic blending Reynolds stress model for use in hybrid RANS-LES methods	
	65	22	41	72	
2:15 PM	Policy	Lasers	Manufacturing	CFD	
	Freedom from Government Oversight: Open standards and Compliance Assessment Impact on the Front Range	Development of experiments to study the interaction of exploration hardware with surfaces of airless bodies	3-D Printing for Aerospace	High Performance Computing via a Web Browser in Undergraduate Computational Aerodynamics	
	16	42	9	39	
2:40 PM	Afternoon Snack (Berger)				
3:05 PM	Satellites	SW	Combustion	CFD	3
	USAF Academy's FalconSAT Cadet-built Satellite Program	Developing Complex Space Systems in Today's Shrinking Defense Budgets, Testing Systems of Systems	Development of the ISS Fine Water Mist Fire Extinguisher	Comparison of Experimental and COMSOL® Studies of Aeronautical Flow	
	63	68	23	53	
3:30 PM	Satellites	SW	Combustion	Combustion	same
	Robust, Agile Low Earth Orbit Space Debris Disturbance Rejection Control: Modeling and Simulation	Flying Quadcopter with Google Glass	Thermophysical Properties of Thermally Stressed RP-1 and RP-2	Thermal Stability of the Kerosene Rocket Propellant RP-2 as a Function of Composition	
	62	67	38	51	
3:55 PM	Satellites	SW	Combustion	Risk	4
	Low-cost, Three-Axis, CubeSat Attitude Determination Algorithms for the EyaSat3 Classroom Demonstrator	Autonomous Mission Operations Demonstrated Using the Integrated Scheduler-Planner And Reactive Executive (I-	The effect of thermal stress on the combustion of endothermic fuels	Failure is Not an Option: Using PRA to Drive Success	
	61	59	46	50	
4:20 PM	Satellites	SE	Thermophysics	Risk	same
	Near Earth Asteroid Mission: An Operations Management and Bioastronautics Perspective	Continuous Improvement Process	Thermophoretic Force on a Particle in Transitional Flow	: INTEGRATING RISK ASSESSMENTS TO ENSURES EXECUTION SUCCESS	
	58	19	64	45	
4:45 PM	Closing remarks (Berger)				
5:00 PM	After Event Social (Berger)				

Opening Remarks (9:00 am)



Major General Terrence A. "Terry" Feehan

Maj. Gen. Terrence Feehan is Director of Requirements, Headquarters Air Force Space Command, Peterson Air Force Base, Colorado. He is responsible for defining the future of space and cyberspace systems through requirements definition, mission area architecting and science and technology in support of the joint warfighter, Department of Defense, civil and national users. Mission areas include missile warning/defense, military satellite communications, responsive space, cyber warfare network operations, global positioning system, space control, space protection, launch and range operations and requirements generation.

General Feehan received his commission as a distinguished graduate of the U.S. Air Force Academy in 1984. He has previously commanded at the squadron, group, wing and numbered air force levels, and has served as an engineer, acquisition program manager and inspector general. The general has also held assignments at the major command and headquarters Air Force levels, and he was a Secretary of Defense Fellow, Accenture Corporation, Northbrook, Ill.

Please see the "Extended Biographies" section for a full biography on Maj. Gen. Feehan.

Keynote Speaker (11:35 am)



Dr. James “Jim” Reilly

Why do we go to space?

What benefits do we as a society receive by being a spacefaring nation?

How does space affect your life every day?

Dr. Jim Reilly will present his experiences as a 3-time Space Shuttle astronaut and talk about what it means to *engineer the capability* to fly in space and stay there. He will relate personal and programmatic experience on how building the International Space Station offered spectacular views of our planet and continues to offer a different perspective on how we interact with our home world. More critically, since it is truly an international endeavor, the ISS program is a landmark project where the largest spacecraft ever built was, for the first time, constructed and continues to operate through the efforts of citizens of 14 countries and space programs. When we as a human species decide to move past low earth orbit and return to the Moon, or travel on to Mars, it will likely be on the shoulders of lessons learned from this international endeavor and not the program of any single country. Jim will examine some of the “whys” in going back to the Moon and in pursuing the first human footprints in the red dust of Mars. As engineers and scientists, we will be charged with not only deciding how we will travel to and live on the Moon and Mars but will also help shape the opinion, policy, an national will driving why we want to go and what type of people we will be when we get there.

Please see the “Extended Biographies” section for a full biography on Dr. Reilly.

AIAA Membership

CONNECT

When you join AIAA, you gain countless **OPPORTUNITIES TO CONNECT WITH MORE THAN 30,000 OTHERS** in the field of aerospace science, engineering, technology, management, education, and policy.

ACHIEVE

AIAA connections and educational programs provide a **LIFETIME OF OPPORTUNITIES** for you to **ADVANCE PERSONALLY AND PROFESSIONALLY** and **TO BE RECOGNIZED FOR YOUR ACHIEVEMENTS.**

INSPIRE

AIAA membership helps you **SHARE IDEAS, SPARK INSIGHTS, MEET YOUR HEROES, AND BUILD ENTHUSIASM FOR AEROSPACE WITH THE NEXT GENERATION.** When you join, you become part of AIAA's mission to **ADVANCE THE STATE OF AEROSPACE SCIENCE, ENGINEERING, AND TECHNOLOGICAL LEADERSHIP.**

AIAA PROFESSIONAL MEMBERSHIP

Your annual \$110 investment in AIAA membership provides the professional development resources and contacts to advance your career ... expand your potential impact on the future of aerospace ... and keep you at the forefront of aerospace technology.

JOIN

www.aiaa.org/join



12-0209_revised



CONNECT

ENDLESS OPPORTUNITIES TO NETWORK!

STUDENT BRANCHES – Where the Action Is

LOCAL SECTION MEETINGS – Network Close to Home

TECHNICAL AND PROGRAM COMMITTEES – Discover your Passion

NATIONAL CONFERENCES – Who Will You Meet?

AIAA'S SOCIAL NETWORKING CHANNELS – Networking at Your Fingertips

ACHIEVE

RESOURCES TO SUPPORT YOUR EDUCATION AND CAREER!

SCHOLARSHIPS – Awarded Through the AIAA Foundation

STUDENT CONFERENCES AND DESIGN COMPETITIONS – Gain Practical Experience

AIAA CAREER CENTER – Your Ideal Job Awaits

AIAA MEMBER DISCOUNTS – Save While You Learn

HONORS AND AWARDS – Gain Recognition for Your Accomplishments

ONLINE NEWS AND RESEARCH – Your One-Stop Resource

INSPIRE

MAKE YOUR MARK!

CONGRESSIONAL VISITS DAY – Make Your Voice Heard in Congress

AUGUST IS FOR AEROSPACE – A Grassroots Program Close to Home

ENGINEERS AS EDUCATORS – Learn How to Engage K–12 Students in Hands-on Activities

JOIN

www.aiaa.org/join

AIAA STUDENT MEMBERSHIP

At \$25 a year, AIAA Student Membership offers a great return on investment.



12-0213_revised



Panel Sessions

1. Direction of the Industry (10:20 am)
2. STEM Education & Outreach (1:25 pm)
3. Job Market / Career Advancement (3:05 pm)
4. Colorado Initiatives (3:55 pm)

Please see the “Extended Biographies” section for a full biography on the panelists.

Panel Sessions, Next Page.










Direction of the Industry (10:20 am)

This panel aims to formulate an outlook for the direction of aerospace and related industries in the Rocky Mountain section. Major themes in this panel may include technology indicators, national and regional trends, strategies for growing Colorado industry, and emerging markets. This panel seeks involvement from Air Force users, space asset manufacturers, aircraft companies, aeronautical and space operators, and the smaller firms which supply these groups.

	<p><u>Russ Anarde</u>, <i>Corporate Lead Executive, Northrop Grumman Corporation</i></p> 
	<p><u>Mark Clark</u>, <i>Division Manager & HTSI Engineering CoE Interim Lead, Honeywell</i></p> 
	<p><u>Frank Doerner</u>, <i>Vice President – Materials, Processes & Structures Technologies</i> <i>Boeing Research & Technology</i></p> 
	<p><u>David Markham</u>, <i>President, Lockheed Martin Commercial Launch Services, Inc.</i></p> 

STEM Education & Outreach (1:25 pm)

This panel aims to connect both ends of the STEM pipeline from student education to eventual employment. This panel will discuss skills and qualities important to the industry, techniques and challenges associated with STEM education, and how better to promote communications all along a student's progression. An example topic would be the opportunities available to the professional community for promoting interest, education, and involvement in fields necessary to a long lasting, sustainable, and competitive future for the industry. This panel seeks involvement from K12 through post-secondary educators, education professionals (district, government, & legislative), industry technical and management representatives, and outreach and philanthropic contacts.

	<p><u>Violeta García, PhD</u>, <i>STEM Education Coordinator, Colorado Department of Education</i></p> <div>   </div>
	<p><u>Dianne Kingsland</u>, <i>Executive Director, STEMsCO</i></p> 
	<p><u>Rex Kiziah, Colonel, USAF</u>, <i>Permanent Professor and Head, Department of Physics USAF Academy</i></p> 
	<p><u>Marcos Stephens</u>, <i>Northrop Grumman Corporation</i></p> 

Job Market / Career Advancement (3:05 pm)

This panel aims to highlight the current Rocky Mountain job market and atmosphere for career advancement in the section. This discussion will include how local university resources prepare the work force, highlight opportunities for ongoing career enhancement such as professional societies, and the tools and techniques necessary for an upwardly mobile career. This panel seeks involvement from collegiate student groups, university educators, professional societies, industry management executives, and human relations representatives.

	<p><u>Douglas Atkinson</u>, <i>Sr. Director of Engineering, HGST Inc. – a Western Digital company</i></p> 
	<p><u>Sabra Bennet</u>, <i>Director – Human Resources, Bal Seal Engineering Inc.</i></p> 
	<p><u>Lauren C. Johnson</u>, <i>Senior Systems Engineer, a. i. solutions</i></p> 
	<p><u>Nina Maggio</u>, <i>Recruiter, Northrop Grumman Corporation</i></p> 
	<p><u>Sean D. McClung</u>, <i>Executive Director for Space Innovation, Millennium Engineering and Integration Company</i></p> 

Colorado Initiatives (3:55 pm)

This panel aims to highlight opportunities for collaboration between large and small private-industry firms, government and public sector users and buyers, university and private research firms, and legislative entities in the current Rocky Mountain section. In particular, this panel will discuss initiatives and collaborative ventures associated with the state of Colorado such as the establishment of the Aerospace Champion position and Advanced Industries Accelerator program. This panel seeks involvement from small and large industry executives and regulatory and legislative bodies.

	<p><u>Casey Howard</u>, <i>Military Legislative Assistant - Senator Udall's Office</i></p>
	<p><u>Vicky Lea</u>, <i>Senior Manager – Aerospace and Aviation, Colorado Space Coalition</i></p> 
	<p><u>Jay Lindell</u>, <i>Major General (Ret), USAF, Aerospace and Defense Industry Champion, Colorado Office of Economic Development & International Trade</i></p> 
	<p><u>Andy Merritt</u>, <i>Chief Defense Industry Officer, Colorado Springs Regional Business Alliance</i></p> 

After Symposium Event (5:00 pm)

Wait out the traffic and relax at the symposium's on-site after-event sponsored by **Bristol Brewery!**



Red Rocket Pale Ale complimentary to attendees w/ cash bar for further refreshment.



Symposium Menu, Parking, & Internet Access

Breakfast: The Classical Continental

Fresh Baked Muffins
Whole Fresh Fruit

Orange Juice
Coffee
Decaf and Hot Tea.

Lunch: Deli Buffet

Sliced Turkey, Roast Beef & Ham,
Cheddar, Muenster & Swiss Cheese with
Tomatoes, Cucumbers, Onions, Lettuce,
Pickles, Banana Peppers, Sandwich
Bread Selection & Condiments

Dijon Vinaigrette Potato Salad
Tricolor Pasta Salad

Decadent Dessert Bars

Iced Tea, Iced Water, Coffee

Afternoon Break:

Cubed Cheese & Cracker Tray
Walnut Mountain Pesto Tray
Fresh Vegetable Tray

Veggies (Carrots, cucumbers, broccoli,
cauliflower & celery)
served with Ranch dip

Cheddar, Swiss and Dill Havarti served
with cracker medley

Mixed Nuts, Potato Chips with French
Onion Dip

Tortilla Chips w/ House Salsa

Iced Water w/ Lemons & Oranges,
Coffee

Reception:

Munchies Tray with Large Cubed Cheese
& Fruit Tray:

Cheddar, Swiss and Dill Havarti served
with cracker Medley
Seasonal fresh fruit

Mixed Nuts, Potato Chips
w/ French Onion Dip
Tortilla Chips w/ House Salsa

**The Official Beer of
Spaceport Colorado
(Red Rocket Ale
from Bristol Brewery)**

Iced Water w/ Lemons & Oranges

UCCS Conference Services

UNIVERSITY OF COLORADO **COLORADO SPRINGS**

UCCS Visitor Parking 4th and 5th Level - Parkway Garage Berger Hall

Directions from I-25 Southbound

- Take I-25 Southbound to the exit marked "Corporate Center Drive/North Nevada/Rockrimmon," exit 148 (first exit after Woodman Road).
- After exiting, take the first left (marked 148A) to access North Nevada Avenue.
- Continue on North Nevada and turn left (east) at the Austin Bluffs Parkway/Garden of the Gods intersection (first stoplight).
- Turn left into UCCS at the second stoplight (Regent Circle).
- Follow roundabout around on Regent Circle. (Take second spoke of the roundabout.)
- Turn into Parkway Garage and proceed to the 4th and 5th level. **There is no ticketing for these levels.**

– OR –

Directions from I-25 Northbound

- Take I-25 Northbound to the "Garden of the Gods Exit," exit 146.
- Keep right to merge right (east) onto Garden of the Gods Road. Garden of the Gods Road will become Austin Bluffs Parkway at North Nevada Avenue.
- Turn left into UCCS at the second stoplight (Regent Circle).
- Follow roundabout around on Regent Circle. (Take second spoke of the roundabout.)
- Turn into Parkway Garage and proceed to the 4th and 5th level. **There is no ticketing for these levels.**

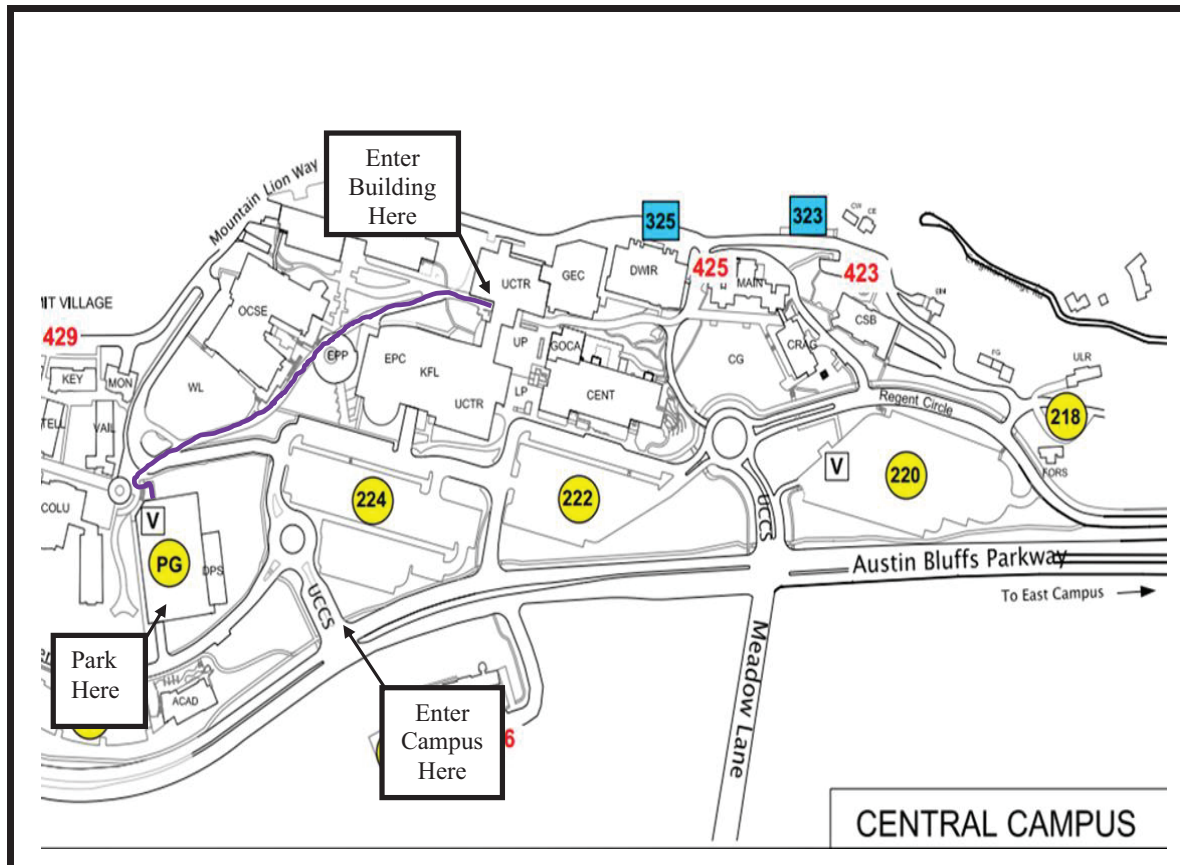
Directions to building from Parking Garage:

- Proceed to the University Center (UCTR)
- Exit the parking garage by walking out the opposite end (NE) from entering.
- Proceed up the stairs and take the side walk across street and follow the upper sidewalk past the El Pomar Tower and Kraemer Family Library to your right. (Follow purple line).
- Keep walking toward the University Center.
- The sidewalk will approach a set of double doors
- After entering in the building Berger Hall is located to your left.

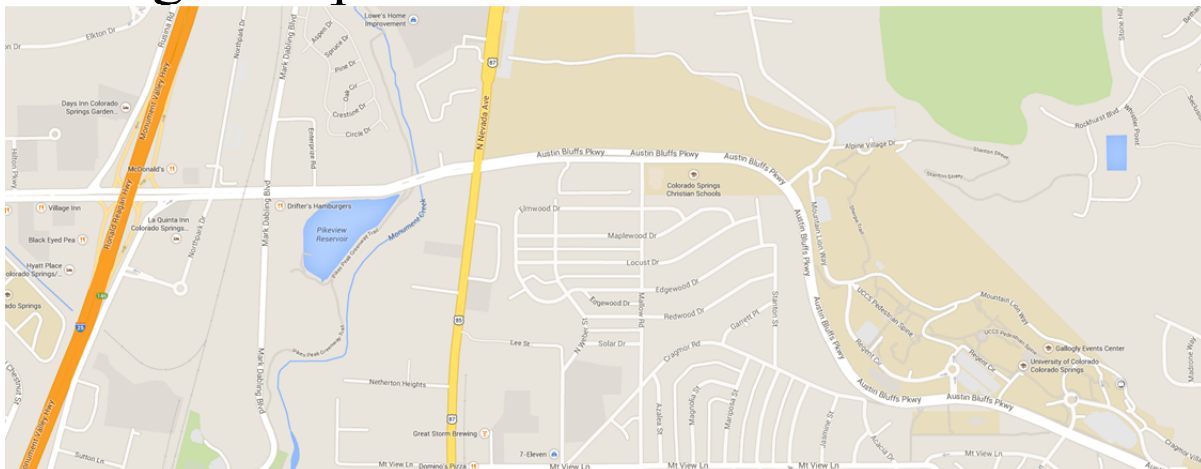
**If you should need help, please contact
Conference Services at 719-255-4445.**

Exiting the Campus:

- Enter the roundabout and circle around to the exit on Regent Circle for both east and westbound travel on Austin Bluffs Parkway.



Google Maps Overview from I-25 to UCCS



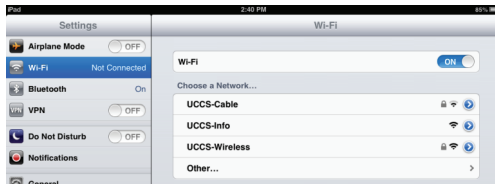
UCCS WIRELESS NETWORK INFORMATION

- Wireless Network: UCCS-Wireless
- Username: g-c8620
- Password: 2838

iPhone/iPad instructions

When prompted to connect to a wireless network select **UCCS-Wireless**

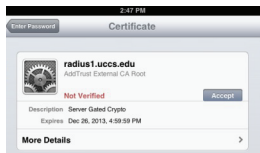
If you are not prompted to select a network, Tap on **Settings** then Tap on **Wi-Fi**, then Tap **UCCS-Wireless**



Enter the username and password listed at the top of this page, then tap **Join** in the top right corner.

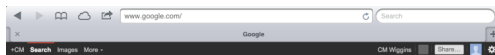


If prompted with the below message tap **Accept**.



UCCS-Wireless should now have a **blue check**. Press your **home button**.

Tap on **Safari** (Web Browser) and try to access the Internet (www.google.com). Once Google loads you have full Internet access. If necessary wait 10 – 15 seconds and try to access Google again.




Laptop Instructions

Select **UCCS-Wireless** from the list of available wireless networks on your laptop.

When prompted for a username and password, please enter the information at the top of the page. Then click on **Connect**.

UCCS-Wireless should now show a connected status.

Open any web browser. You will be automatically redirected to the page below. Select "**Limited Access**" option, then click **I would like to be granted Limited Access**.



Wireless Network
Information Technology Department
UNIVERSITY OF COLORADO COLORADO SPRINGS

UCCS Wireless Network Overview

You are connected to to **UCCS-Wireless**, the primary wireless access network at UCCS. UCCS-Wireless provides two different levels of access: Full Access, and Limited Access. Details about both can be found below.

Full Access - Unrestricted Network Usage


Limited Access - Typical Web Usage

If you are unable to install SafeConnect, a limited form of Internet access is available. No additional client installation is required. Basic web access is available using this method, though many specialized ports are blocked while on limited access.

In order to use limited access, click the link below. Your current device will be enrolled in the limited access group for a period of time of several hours, and you will be granted basic Internet access. After the period of time expires, you will once again be brought to this page. You may then either choose to install SafeConnect to gain full access, or request limited access again.

I would like to be granted Limited Access

The below page will automatically load.



Wireless Network
Information Technology Department
UNIVERSITY OF COLORADO COLORADO SPRINGS

NAC Detection

Welcome to the UCCS Wireless network.

The system is currently identifying your device.

Please wait 10 seconds and you will automatically be redirected.

After 10 seconds the main UCCS web page will load and you will have Internet Access.

Accommodation: Embassy Suites

Persons requiring reservations should call 719-599-9100 and ask for the negotiated rate for the “AIAA ATS” event.

We have a room block set aside for your 3rd Annual Technical Symposium at Embassy Suites.

- We provide a welcome note for each guest booked within the block and amenity in speaker's room.
- All our guestrooms are large 2 room suites with wet bar, microwave and mini refrigerator.
- All double rooms have larger queen size beds for additional comfort vs. full size beds.
- We have an indoor pool with outdoor sun deck, hot tub, and state of the art fitness center.
- We are conveniently located off of I-25 only 4 miles away from UCCS.
- We have a full service restaurant, room service, catering and meeting facilities plus we are walking distance from 5 other restaurants.

Each guest suite includes a full cooked to order breakfast with eggs, bacon, sausage, potatoes, pancakes, cooked to order omelets, fresh fruit, breads, pastries, oatmeal with fixings, assorted beverages and more! We provide our evening reception 7 days a week from 5:30pm – 7:30pm with alcoholic and non-alcoholic beverages as well as light snacks. Below is an awesome picture of the west atrium where the group would enjoy the complimentary breakfast each morning as well as the evening reception.



Our group rate for you is \$89.00 per night. To access more information about the hotel and to view all of the awesome pictures of the hotel, click on our website link: <http://embassysuitescoloradosprings.com>

Elle Christensen

Sales Manager

Embassy Suites Colorado Springs

7290 Commerce Center Drive Colorado Springs, CO 80919

Hotel- 719-599-9100 Direct- 719-955-6807

Fax- 719-599-4644

Room rates do not include applicable taxes and fees. The above rooms will be available for your guests until 09/24/2014, which is 30 days prior to the first scheduled arrival date. After 09/24/2014, this agreement is void. All reservation requests after this date will be subject to Embassy Suites Colorado Springs prevailing rates and availability. Please understand during periods of limited availability, your negotiated rate will not be available. Persons requiring reservations should call 719-599-9100 and ask for the negotiated rate for the University of Colorado at Colorado Springs (UCCS) event.

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