



Marine Corps University
MCB Quantico, Virginia

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OVERVIEW

The Deputy Commandant for Combat Development and Integration sponsors the Annual Marine Corps Innovation Symposium to bring together individuals from across the service to address challenges and to inform senior leaders of alternative approaches to enable organizational change.

This year, the 3rd Annual Marine Corps Innovation Symposium will be co-hosted by the Marine Corps Warfighting Laboratory and the Next Generation Logistics (NEXLOG) Innovation Cell. During this year's innovation symposium, we will explore how to instill innovation as part of our service culture and processes. Participants from across the Marine Corps will come together in Quantico, VA from 24-26 July 2018 to educate the force, promote organizational transformation, and identify actionable recommendations and actions to make innovation part of the Marine Corps culture and processes.



SCHEDULE

Day 1 (Tuesday, July 24)

- 0630-0730: Event Check-in & Registration
- 0730-0845: Plenary Session 1: Welcome & Marine Corps Innovation History
- 0845-0900: Break
- 0900-1015: Plenary Session 2: Symposium Overview*
- 1015-1030: Transition to Working Groups
- 1030-1215: Working Groups I
- 1215-1315: Lunch
- 1315-1515: Working Groups II
- 1515-1600: Displays
- 1600-1700: Plenary Session 3: Awards & CMC's Innovation
- 1700-1830: No-Host Social

Day 2 (Wednesday, July 25)

- 0730-0915: Plenary Session 4: Technical Innovation I
- 0915-0930: Break
- 0930-1200: Plenary Session 5: Technical Innovation II*
- 1200-1300: Lunch
- 1300-1600: Working Groups III
- 1600-1630: Displays
- 1630-1730: Plenary Session 6: Fleet Innovation

Day 3 (Thursday, July 26)

- 0730-0845: Plenary Session 7: Department of Defense Innovation
- 0845-0915: Transition to Working Groups
- 0915-1215: Working Groups IV
- 1215-1315: Lunch / FabLab Robot Wars
- 1315-1645: Plenary Session 8: Working Group Recommendations / Closing

**Government ONLY during MCIA brief*

NOTE: Display presenters will be at their displays during lunches and designated display periods for questions and conversation.



Ownership - Creativity - Growth

illuminate thinkshop

We are the Illuminate Team. We help break through silos of communication and collaboration. Our efforts unleash the tremendous untapped potential of our people to drive ownership, improvement, and problem solving at every level.

Our approach is to set a collaborative environment to encourage fast learning and adaptation of individuals and teams. By leveraging powerful mental tools, we promote empowerment, excitement, and creativity. We have delivered Thinkshops to thousands of people around the world of all ranks, ages, and affiliation.

Our method is unconventional and resonates with all levels of an organization. We are not a mandated program - there is no instruction, no directive, and no order. Rather, it is a grassroots effort - developed and delivered by passionate service members. We help organizations break down institutionalized barriers and leverage the tacit knowledge of their people.

We provide tailored Thinkshops that are adaptable and scalable for any audience and rank, including senior leaders.

PRESENTERS



Gen Robert B. Neller

37th Commandant

United States Marine Corps

Speaker: “CMC’s Remarks”/ Plenary Session 3



LtGen Michael G. Dana

Director

Marine Corps Staff

Speaker: Co-Presenting: “Innovation In Context: Where the Marine Corps Sits Today”/ Plenary Session 4



LtGen Robert S. Walsh

Deputy Commandant

Combat Development and Integration

Speaker: “Closing Remarks”/ Plenary Session 8



BGen Christian F. Wortman

Commanding General

Marine Corps Warfighting Laboratory

Speaker: “Opening Remarks”/ Plenary Session 1

Dr. Thomas X Hammes

Distinguished Research Fellow

Institute for National Strategic Studies, National Defense University

Keynote Speaker



Dr. Niki Glassmire

Associate Partner

IBM Global Business Services

Speaker: IBM Panel/ Plenary Session 4



Dr. David McQueeney

Vice President

Corporate Technology, IBM Corporation

Speaker: IBM Panel/ Plenary Session 4



Balaji Iyer

Professional Service Consultant

Amazon Web Services

Speaker: “Culture of Innovation at Amazon”/ Plenary Session 5



**Full biographies available on the Symposium website (Page 1)*



Joshua Marcuse
Executive Director
Defense Innovation Board

Speaker: “The Forge of Hephaestus: Lethality in the Age of Algorithms”/ Plenary Session 7



Morgan C. Plummer
Managing Director
MD5 National Security Technology Accelerator

Speaker: “Innovation as a Strategic Hedge”/ Plenary Session 7



Christopher W. Brunett
Senior Military Advisor
Defense Innovation Board

Speaker: “Recommendation Kickoff: Illuminate Approach”/
Plenary Session 7



David R. Markov
Project Leader
Institute for Defense Analyses

Speaker: “2018 Consumer Electronics Show Observations”/
Plenary Session 5

Andrew C. Roberts

Command Element Developer/ Integrator
Command and Staff College, Marine Corps Warfighting Laboratory

Speaker: "Marine Culture"/ Working Group Lead



David W. Pinion

Faculty Advisor
Command and Staff College, Marine Corps University

Speaker: "Marine Air Ground Task Force Culture"/ Working Group Lead



Brian Kiviat

Deputy Director
Expeditionary Energy Office, Capabilities Development Directorate

Speaker: "Capability Process"/ Working Group Lead



Mark D. McCarroll

Branch Head
Manpower Management Division, Manpower and Reserve Affairs

Speaker: "Manpower Process"/ Working Group Lead





Christopher Wood

Innovation Lead

Office of the Director, Marine Corps Staff

Speaker: Co-Presenting: “Innovation in Context: Where the Marine Corps Sits Today”/ Plenary Session 4



Conor T. Bender

Innovation Officer

2d Marine Logistics Group

Speaker: “Grassroots Innovation Program”/ Plenary Session 6



Christopher A. Mershon

H&S Company Executive Officer

2d Battalion, 1st Marines

Speaker: “Team of Teams”/ Plenary Session 6

Display: Signature Management Action Plan



Daniel H. Whitt

Innovation Cell

Marine Corps Logistics Command

Speaker: “Augmented Reality: Optimizing Maintenance Activities”/ Plenary Session 6

Display: Optical Character Recognition

Daniel C. Pines

Chief Innovation Officer

NSWC Indian Head EOD Technology Division

Speaker: “Velocity Lab”/ Plenary Session 6



Sean C. Flores

Utilities Officer

III Marine Expeditionary Force

Speaker: “Phase Zero”/ Plenary Session 6



Steven R. Davic

NCO Fellow

Marine Corps Warfighting Laboratory

Speaker: “NCO Fellowship”/ Plenary Session 6

Display: NCO Fellowship



Alexander V. Long

Ammunition Logistics Focus Team Chief

Marine Corps Systems Command

Speaker: “Personal Combat and Reporting Device (PCARD)"/
Plenary Session 6

Display: NEXLOG





John W. Hawley
Innovation Officer
US Fleet Forces Command

Speaker: Co-Presenting: “Illuminate ThinkShop”/
Plenary Session 2



Meghan R. Wilkens
Innovation Officer
US Fleet Forces Command

Speaker: Co-Presenting: “Illuminate ThinkShop”/
Plenary Session 2



Kenneth A. Tarr
Company Commander
2d Battalion, 25th Marines

Speaker: “A Legacy of Leadership”/ Plenary Session 2



Jared J. Maxwell
Training Chief
3rd Battalion, 23rd Marines

Display: Urban Warfare Center of Excellence

Jacob A. Rittenhouse

Law Enforcement Integration Officer
2d Marine Air Wing



CMC Innovation Challenge Winner

Display: Total Force Translation (1st Quarter Winner)

“Personal Real-Time Translation” - Introducing an automated capability with wide proliferation could significantly increase the ability of a unit operating in the urban environment to develop interpersonal relationships with the local population, increase cohesion and coordination with local security forces, and give instructions to civilians during kinetic engagements to mitigate collateral damage and civilian casualties.

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Walker D. Mills

Weapons Platoon Commander
2d Battalion, 1st Marines



CMC Innovation Challenge Winner

Display: EW Spoofing Pod (2nd Quarter Winner)

Maps on Demand for Small Unit Leaders (3rd Quarter Winner)

“Electronic Warfare Spoofing Pod” - The Marine Corps requires the capability to conduct information operations in support of maneuver forces at the tactical edge. This innovative idea would proliferate this capability for use by all elements of the MAGTF.

“Maps on Demand for Small Unit Leaders” - Access to common maps and mapping capabilities needs to be available for tactical units at the company level or below as well as the MAGTF and operational level commands. The creation of a digital map database and on the demand access to this data with limited barrier to entry will enable forces to operate more effectively.



Anthony S. Molnar

Project Officer

Marine Corps Systems Command

Display: Reclaimed Polymetric Feedstock for
Mobile Manufacturing



Dr. Nicole E. Zander

Research Chemist

U.S. Army Research Laboratory

Display: Reclaimed Polymetric Feedstock for
Mobile Manufacturing



Nate Hughes

Student

Georgetown University

Display: Hacking for Defense



Kinjal Parekh

Student

Georgetown University

Display: Hacking for Defense

Masco R. Settles

Deputy Director

Marine Corps Rapid Capabilities Office



Display: MCRCO

Daniel A. Schmitt

Chief Executive Officer

Guard Unit



Display: Adaptive Threat Force

Milad Afkhami

Foreign Area Officer

Marine Corps Training Mission-United Arab Emirates



Display: Phase Zero

Walter D. Wright

User Experience Designer

Georgia Technical Research Institute



Display: Augmented Reality and Virtual Reality

SPONSOR



MD5

National Security Technology Accelerator

MD5 is accelerating the dissemination of innovation knowledge and methods throughout the DoD workforce. We are building new communities of innovators to create a novel capacity for national security problem solving. We help generate and increase the number and viability of dual-use ventures that serve the needs of our warfighters.

HOST ORGANIZATIONS



The Marine Corps Warfighting Laboratory/Futures Directorate identifies future challenges and opportunities, develops warfighting concepts, and comprehensively explores options in order to inform the combat development process to meet the challenges of the future operating environment.

NEXLOG

ACCELERATING LOGISTICS TO THE WARFIGHTER



NEXLOG is supporting innovation in the fleet by giving Marines access to knowledge and tools that they would rarely get to use otherwise. Empowering Marine innate creativity to see what kinds of solutions they can create for the problems and challenges they work through every day. Continuing education on many fronts is the key to unlocking a whole world of potential in each Marine, and finding the next innovative solution to the problems of the day. The challenges of the 21st century require innovation at all levels, and that requires a force that is ready to innovate.



BUILDING MOMENTUM



FAB LAB

The Fab Lab, run by Building Momentum, will be hosted on site by NEXLOG for the duration of the symposium. Each day Marines from the local area will participate in a battle bot challenge. They will be taught basic coding and 3D printing applications in order to build and program robots. On the third day of the symposium there will be a bot battle during lunch.

LUNCH

Lunch will be about an hour each day of the symposium. Food will be available at the Marine Corps University Café located in Warner Hall, and a food truck will be located at the Breckinridge Hall parking lot each day. There are establishments in the town of Quantico, however we ask that you are back to the symposium and your working groups by the end of the hour.

Days 1,2 & 3



Marine Corps University Café
Subs & Sandwiches
Outside Warner Auditorium (0700-1400)

Day 1 (Tuesday, July 24)



Soulific Seafood
Southern Fare
Breckinridge Hall Parking Lot

Day 2 (Wednesday, July 25)



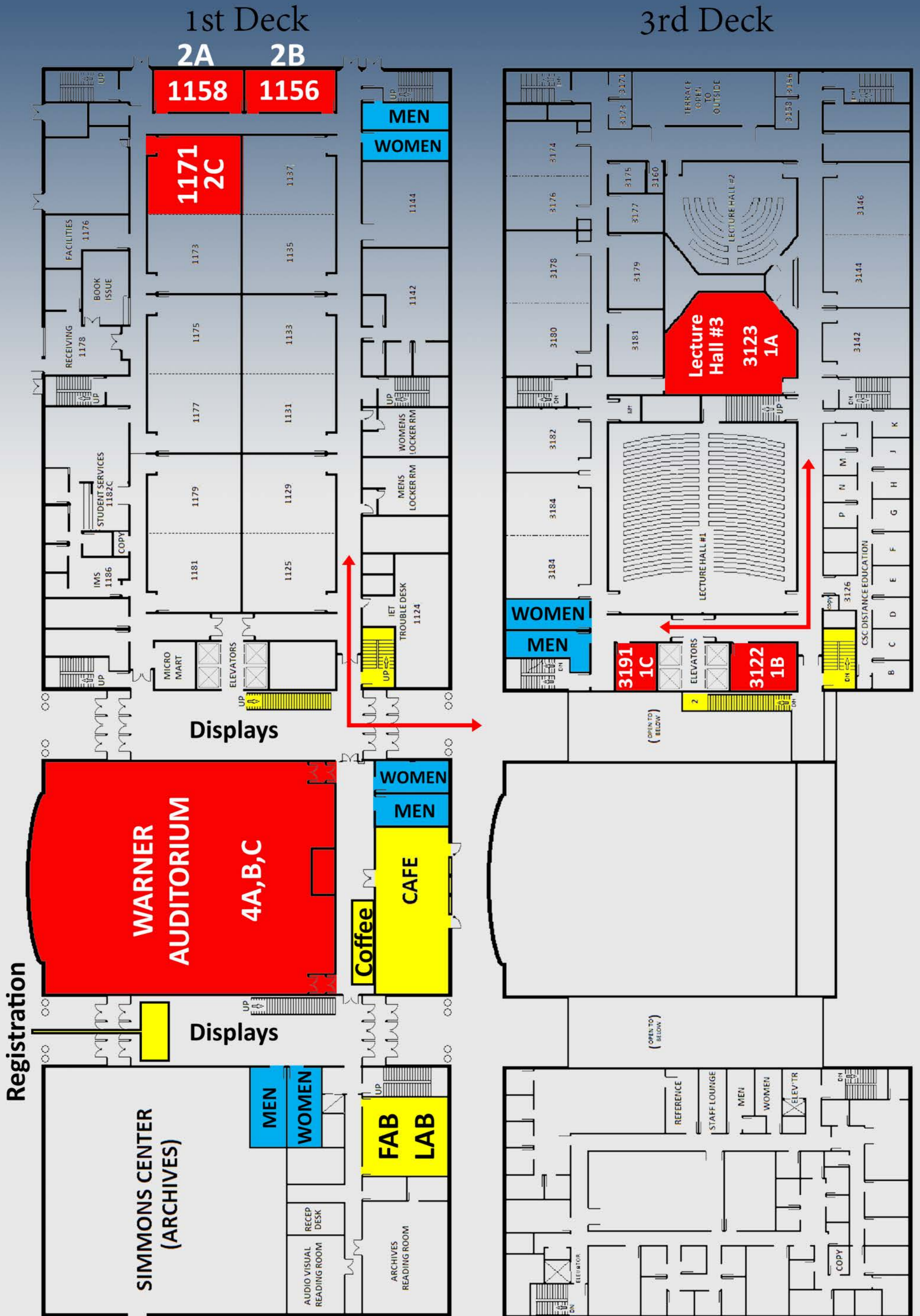
UFO: The Ultimate Food Operation
Sliders & Tacos
Breckinridge Hall Parking Lot

Day 3 (Thursday, July 26)

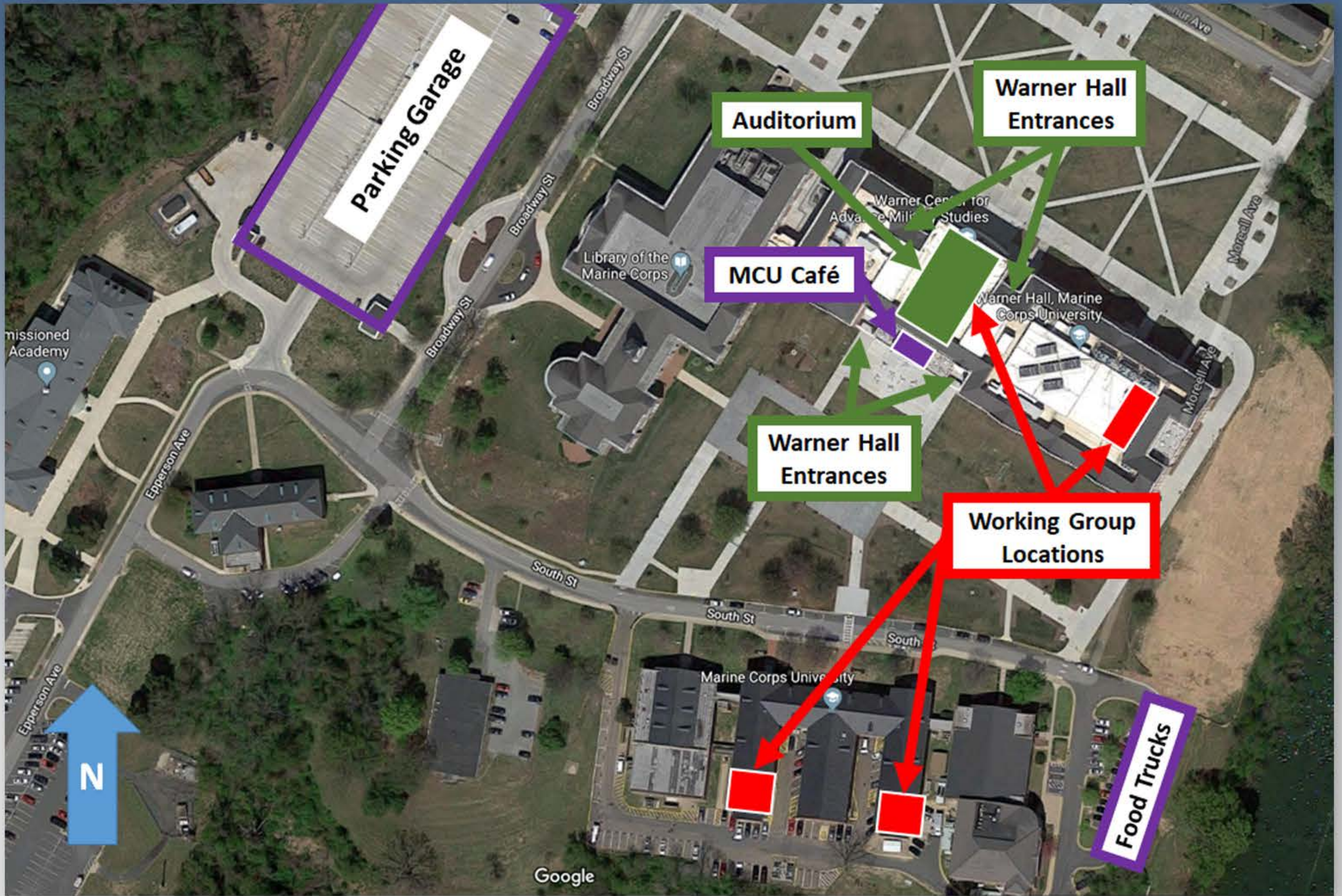


Balsamo's Pizza
Pizza & Salad
Breckinridge Hall Parking Lot

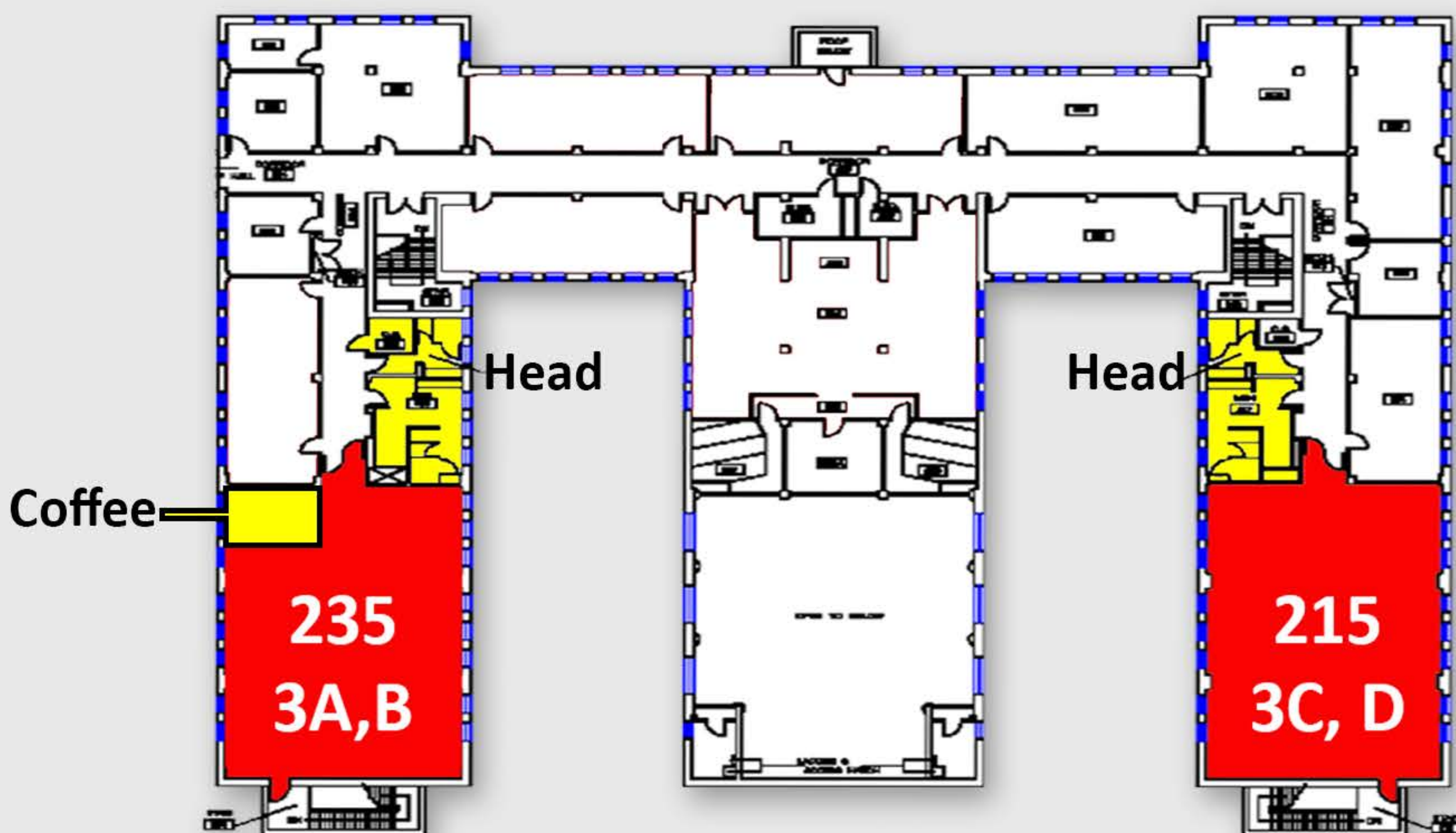
Simmons-Warner Center



MCB Quantico



Breckinridge Hall 2nd Deck



NOTES

NOTES

SURVEY

1) Please rank your overall satisfaction with the 2018 Innovation Symposium?

- Highly Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied

2) What part of the 2018 Innovation Symposium had the largest impact?

- Plenary Sessions
- Illuminate Thinkshop/Working Groups
- Displays
- Networking
- Please specify:

3) How satisfied were you with the Illuminate Thinkshop/Working Group?

- Highly Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied

Comments or Suggestions:

4) How satisfied were you with the Symposium Plenary Sessions?

- Highly Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied

Comments or Suggestions:

5) How likely will you recommend 2018 Innovation Symposium to your colleagues?

- Very Likely
- Likely
- Neutral
- Unlikely
- Very Unlikely

6) How likely are you to attend a future Innovation Symposium?

- Very Likely
- Likely
- Neutral
- Unlikely
- Very Unlikely

7) Please provide any recommendations for future topics and/or speakers?

8) What was your biggest take away from the 2018 Innovation Symposium?

9) Additional Comments:

Take the survey online:

<https://goo.gl/fsMV>

