

Chapters Regional Conference



August 17, 18, 19, 2017
Hotel Roanoke
110 Shenandoah Ave
Roanoke, VA 24016

Sponsors

Class J - \$1500



Class A - \$1000

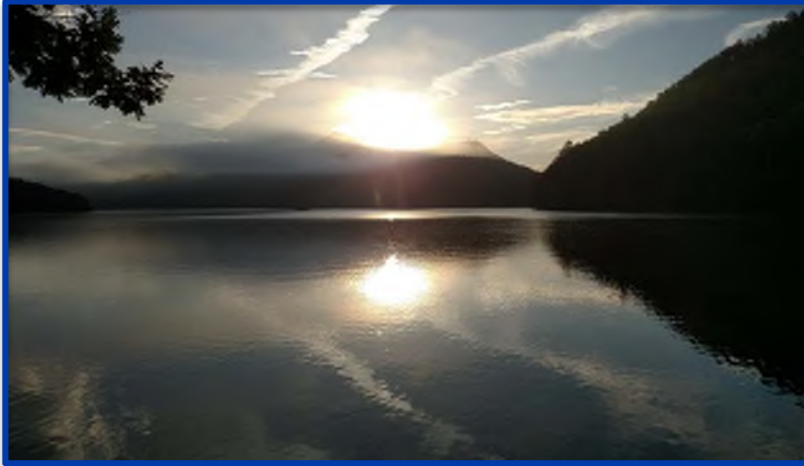


Freight Car - \$500



As of July 6

Explore our.....Outdoors



Carvins Cove Natural Reserve is the second largest municipal park in the nation. It holds a major water source within its 12,700 acres and overflowing recreational opportunities including hiking, biking, fishing, and boat rentals.

<http://www.roanokeoutside.com/land/carvins-cove-nature-reserve/>

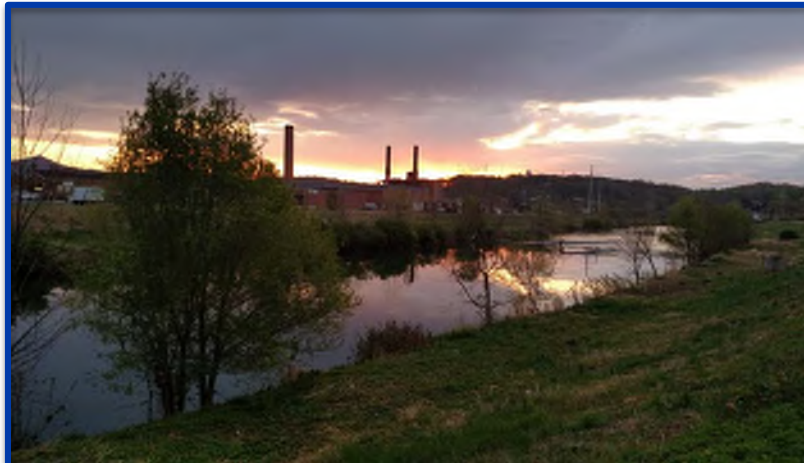
McAfee Knob is the most photographed site along the Appalachian Trail.

<http://www.roanokeoutside.com/location/mcafee-knob/>



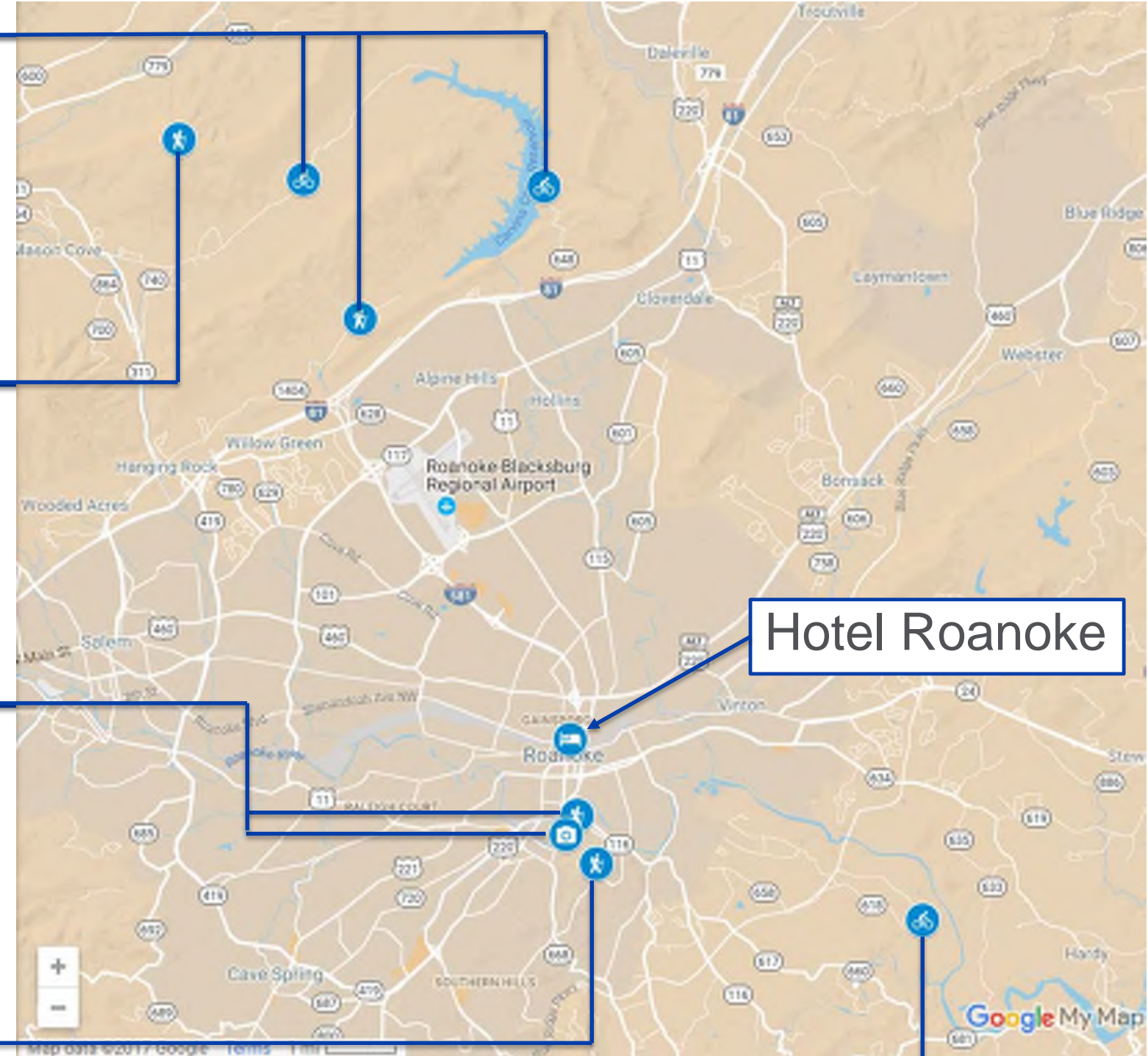
The Roanoke River Greenways were established as part of flood control projects in the 1990s and now include over 30 miles of urban trails and new kayak launches to access the River.

<http://www.roanokeoutside.com/wp-content/uploads/2015/06/greenway-map.pdf>



Less than 5 minutes from downtown Roanoke, Mill Mountain Park offers incredible mountain biking and hiking (9 miles), the summit of Mill Mountain (1,703 feet), the Roanoke Star, 900 acres of parkland, picnic areas, two overlooks that provide 20-60 mile vistas, access to additional hiking trails, and Mill Mountain Discovery Center within 5 minutes of downtown Roanoke.

<http://www.roanokeoutside.com/location/mill-mountain-park/>



With more than 14 miles of IMBA certified mountain bike trails and access to the Blue Ridge Parkway trails and Roanoke River, Explore Park is an 1,110 acre nature preserve with a variety of outdoor activities.

<http://www.roanokeoutside.com/land/explore-park/>



Indulge in our..... Food and Craft Brewing

Within walking distance of the Hotel Roanoke, a wide variety of local and international cuisines exist:

Local/American - Billy's: <http://www.billysroanoke.com/>

Fork Fare/American/Pizza - Fork in the Market: <http://www.forkinthemarket.rocks/>

Local/American – Wall Street Tavern: <http://wallstreettavernva.com/>

Local/Fine Dining – Alexander's: <http://www.alexandersva.com/>

Southern/New Orleans – The Quarter: <http://thequarterrestaurant.com/>

Indian – Nawab: <http://www.nawabrestaurant.com/>

Lebanese – Cedars: <http://www.cedarsofroanoke.com/>

Mexican – Alejandro's: http://www.alejandros_mexican_grill.com/

Craft Burgers – Jack Brown's: <https://www.facebook.com/jbsroanoke>

Japanese/Sushi – Wasabi: <http://www.wasabisroanoke.com/>

Local/American – Table 50: <http://www.table50roanoke.com/>

High-end Comfort Food – Lucky: <http://www.eatatlucky.com>

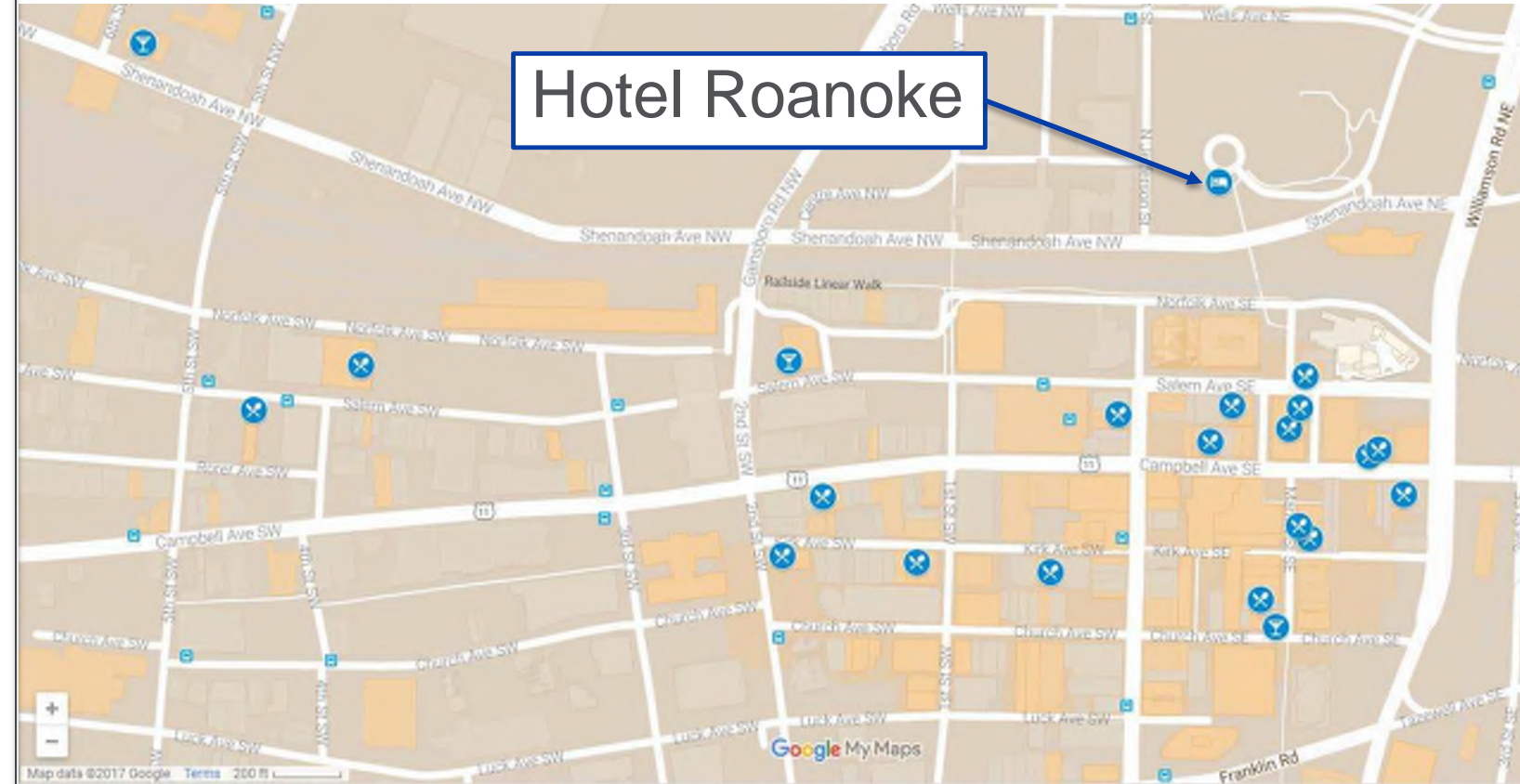
Italian/Pizza – Fortunato: <http://www.fortunatoroanoke.com/>

Italian/Pizza/Venezuelan – Lenore Restaurant: <http://home.leonorerestaurant.com/>

Southern/Local – Blue 5: <http://www.blue5restaurant.com/>

American/Local – Beamer's 25: <http://beamers25.com/>

Latin American – Tuco's Taqueria: <http://tucostaqueria.com/>



Home to a growing craft-brewing scene with several micro-/nano-breweries and restaurants with diverse selections of craft brews and cocktails within walking distance of the CRC headquarters at Hotel Roanoke.

Craft Brewers (walking distance):

Big Lick Brewing Company: <http://biglickbrewingco.com/>

Soaring Ridge Craft Brewers: <http://www.soaringridge.com/>

Deschutes Tasting Room (Fall 2017): <https://www.deschutesbrewery.com/roanoke/>

Craft Bar Scene (walking distance):

Lucky: <http://www.eatatlucky.com/>

Blue 5: <http://www.blue5restaurant.com/>

Beamer's 25: <http://beamers25.com/>





O. Winston Link Museum and History Museum of Western Virginia: Housed in Roanoke's Norfolk and Western Passenger Station, the museums capture both the glory of the days of steam-powered railroads and the history of the area.

<http://roanokehistory.org/>

Roanoke has a unique place in railroad history with the most powerful and efficient steam locomotives being designed and built by Norfolk and Western's Roanoke Shops. The Virginia Museum of Transportation houses three of the sole survivors from steam's glory days on the rails, the Class J 611, the Class A 1218, and the Class Y6 2156. Best known for its rail collection, the VMT also houses a road and aviation collection.



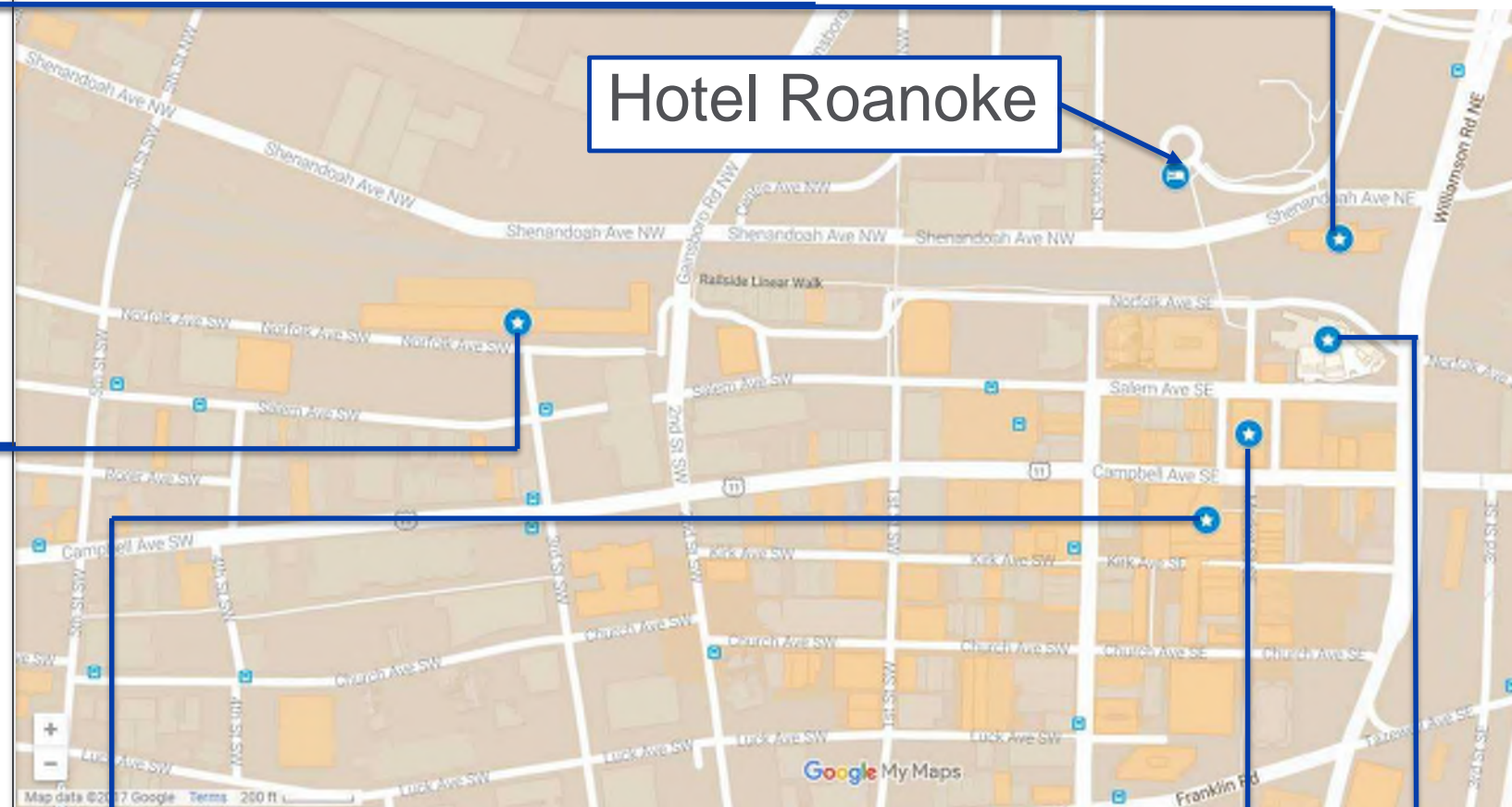
<http://www.vmt.org/>

Home of CRC's Welcome Reception, Center in the Square is a unique home for regional arts & cultural organizations. Five organizations call Center in the Square home:

- ▶ Harrison Museum of African American Culture
- ▶ History Museum of Western Virginia
- ▶ Mill Mountain Theatre
- ▶ Roanoke Pinball Museum
- ▶ Science Museum of Western Virginia

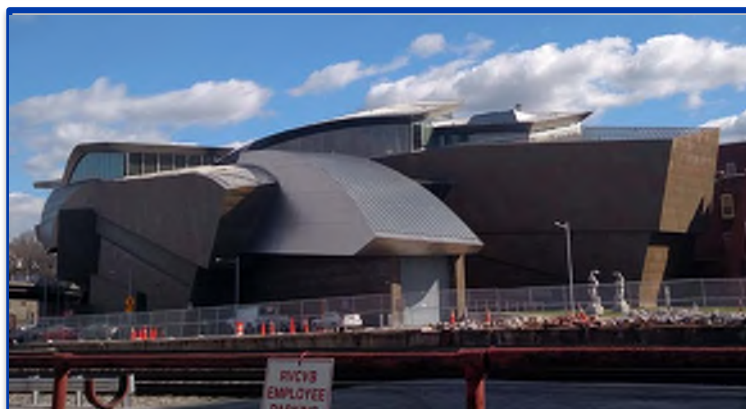


<http://www.centerinthesquare.org>



Anchoring the Farmer's Market (in operation since 1882) the City Market Building and its surroundings, house a variety of local dining and shopping options unique to the region.

<http://citymarketbuilding.com/>



After sparking the largest architectural debate in recent history, The Taubman Museum of Art offers eleven galleries as part of the Fralin Center for American Art and originates 15-20 exhibitions per year.

<http://www.taubmanmuseum.org/>

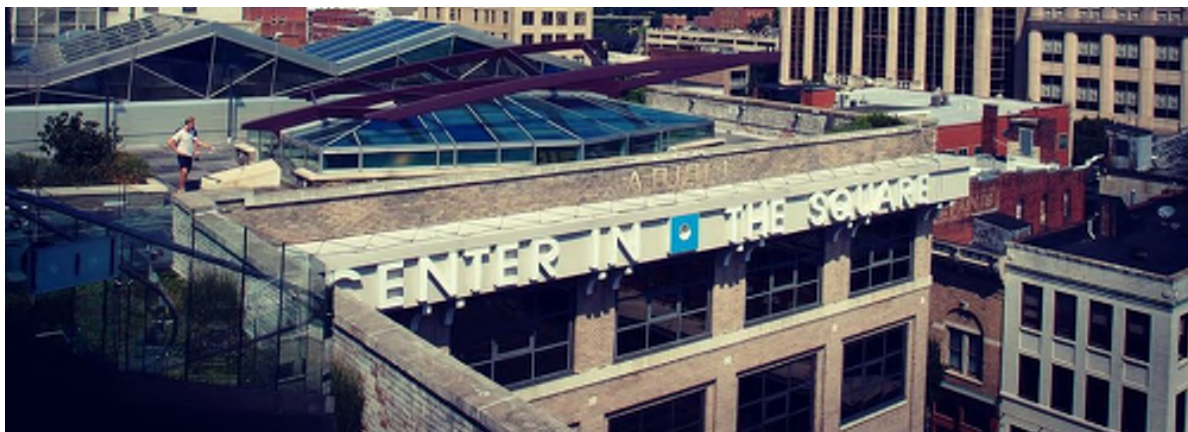
CRC Schedule of Events

Thursday, August 17

Event	Time
Registration	7:00 AM – 6:00 PM
Hospitality Room	7:30 AM – 11:00 PM
First Technical Session	8:30 AM – 12:00 PM
Technical Session Lunch	12:00 PM – 1:00 PM
Second Technical Session	1:30 PM – 5:00 PM
Caucus Mixer & Executive Session	4:30 PM – 7:30 PM

Friday, August 18

Event	Time
Registration	7:00 AM – 5:00 PM
Hospitality Room	8:00 AM – 11:00 PM
First Session Business Meeting	8:00 AM – 11:30 AM
Presidential Luncheon	12:00 PM – 2:00 PM
Second Session Business Meeting	2:15 PM – 5:00 PM
Welcome Reception	5:30 PM – 9:30 PM



CRC Schedule of Events

Saturday, August 19

Event	Time
Registration	7:00 AM – 2:30 PM
Hospitality Room	7:00 AM – 4:00 PM
Leadership Session	8:00 AM – 10:00 AM
Chapter Workshops <ul style="list-style-type: none"> • Chapter Operations • Historian • Secretary • Newsletter/Website • Chapter Finance • YEA 	10:15 AM – 11:30 AM
Awards Luncheon	12:00 PM – 2:00 PM
Grassroots Committee Workshops <ul style="list-style-type: none"> • Student Activities • Membership Promotion • CTTC • Research Promotion • Government Advocacy 	2:30 PM – 4:30 PM



Technical Sessions – 8/17

Session 1: 8:30AM – 10:00AM

A CASE FOR STEAM: Steam vs. Hot Water

- ▶ This session will begin with the basics of Saturated Steam and will build on the application of steam heating systems. Misconceptions of Steam will be presented as well as a discussion on the efficiency of a condensing hot water boiler. Comparison of a steam and a hot water distribution system will be offered with real-life examples to demonstrate the pros/cons.
- ▶ Presenter: Spirax-Sarco Corporate Trainer

Session 2: 10:30AM – 12:00PM

COMBINED HEAT AND POWER

- ▶ Discuss the process to analyze the feasibility of adding Combined Heat & Power (CHP) capability to an existing facility in order to improve environmental and economic performance as well as increase campus energy supply reliability. A study will be described that established feasibility, screened multiple options, and selected final project configuration from among preferred options. Use of thermodynamic models, financial models, environmental performance, historic load data, pricing forecasts, dispatch simulations, and regulatory logistics during screening and final selection will also be described.
- ▶ Presenter: Tom Parker, PE
 - Mr. Parker has been working in the power industry for over 33 years. Initially with Stone & Webster Engineering Corp designing large Investor Owned Utility power generation facilities and for the past 17 years in the distributed generation market. He is currently leading the OnSite Energy & Power group in the East Region for Burns & McDonnell focusing on large campus utility and Combined Heat & Power projects. Mr. Parker graduated from the University of Massachusetts at Amherst with a BS in Mechanical Engineering and is licensed as a Professional Engineer in several states, including Virginia.

Technical Sessions – 8/17

Session 3: 1:30PM – 3:00PM

VARIABLE REFRIGERANT FLOW SYSTEMS

- ▶ Variable Refrigerant Flow (VRF) systems have gained tremendous popularity recently and this session will emphasize the characteristics and best applications of these HVAC systems. The discussion will also include unique opportunities and challenges associated with more stringent building energy and mechanical codes, the increased adoption of green building construction practices, and the changing regulatory landscape related to refrigerants. A forward-looking outlook will be presented on trends and future technologies for VRF systems..
- ▶ Presenter: Douglas Tucker
 - Doug Tucker, a 30-year veteran in the fields of standards development and conformity assessment of HVAC&R equipment, is employed by Mitsubishi Electric US Cooling & Heating as Sr. Manager, Building Code Compliance. In this role he ensures that MEUS products comply with applicable industry, federal agency and state codes and standards.

Session 4: 3:30PM – 5:00PM

LABORATORY CONTROL SYSTEMS

- ▶ This seminar is about room level control of airflow and temperature for laboratory spaces. It will include a discussion on fume hood control methodologies, room pressure control methodologies, airflow control devices, flow measurement, along with advantages and disadvantages of each..
- ▶ Presenter: John Castelvechi PE, HFDP
 - John Castelvechi, a 36-year veteran in the engineering and design of HVAC systems, is employed by Shultz & James, Inc. as a Sales Engineer. In this role he works with engineers in applying the products represented by Shultz & James. He focuses on engineered products, laboratory controls, flow measurement, and hospital systems..

2017 Region III CRC Registration Form

Name: _____
 Spouse/Companion: _____
 Address: _____

ASHRAE Chapter: _____
 Member ___ Student ___ Delegate/Alt. _____

ASHRAE Position(s) currently held:

E-MAIL: _____

Make checks payable to:
 ASHRAE Roanoke Chapter

Mail to: Ryan Browning
 119 Norfolk Ave.
 Suite 100
 Roanoke VA 24011

	Members	Students
CRC Registration (Includes Awards Luncheon)	\$120 = \$___	\$50=\$___
Awards Luncheon Only*	\$40 = \$___	\$20=\$___
	Members/ Guest	Students
President Luncheon	\$40=\$___	\$20=\$___
Welcome Reception	\$60 = \$___	\$30=___
Technical Sessions Full Day Lunch included	\$150=___	\$60 = ___
Technical Sessions ½ Day Lunch included	\$80=___	\$30=___
Total Amount Enclosed	\$_____	\$_____

*Invited CTTC award recipients only.

HOTEL ARRANGEMENTS: A block of rooms has been reserved at the Hotel Roanoke for the CRC at a rate of \$145 per night single/double occupancy, (all rates plus taxes) to guarantee this rate you must make your reservations online at the Region III Website: http://region3.ashraeregions.org/reg_3cd.htm
 And follow the hotel registration link.

Visiting Society Officers & Staff	
Vice President	Ginger Scoggins
Vice President	Michael Schwedler
ASHRAE Staff	Jeff Littleton

Roanoke Chapter 2016-2017	
President	Zac Cates
President-Elect	Kyle Waltz
Vice President	David Rann
Treasurer	Ryan Browning
CRC Committee Chair Vice Chair Treasurer Technical Session	Patrick Murdock Patrick Castelvechchi Ryan Browning John Mann

Region III Officers 2017-2018	
DRC	Roger Jones
ARC	Dunstan Macauley
Treasurer	Paul Petrilli
Regional Vice-Chairs Research Promotion CTTC Student Activities Membership Promotion Historian Government Advocacy YEA Regional Coordinator Nominating: Member Alternate	Jaideep Karnik Tracey Jumper Jim Piscopo Pat Marks Mark Tome Michael Witkowski Lindsey King Paul Petrilli S. Abbott-Adkins

Region III Chapters
Anthracite
Baltimore
Central Pennsylvania
Hampton Roads
Johnstown
Lehigh Valley
National Capital
Philadelphia
Pittsburgh
Richmond
Roanoke

