



Region VII - Chapter 192

Current:
Director and Regional Chair – Larry Fisher
Assistant Regional Chair – Jeff Gatlin
Regional Vice Chair CTTC – Michael Cooper

MINUTES

THIS FORM SHOULD BE SUBMITTED TO YOUR REGIONAL CHAIR (DRC) AND TO REGIONAL VICE CHAIR (RVC) OF CHAPTER TECHNOLOGY TRANSFER WITH MINUTES FOR ALL OF THE FOLLOWING: CHAPTER MEETINGS, BOG MEETINGS AND SECTION MEETINGS WITHIN THREE WEEKS OF EACH MEETING. (BOD 03-06-27-1C)

Chapter Name: West Virginia

Meeting Date: 11-13-2014

Check One:

Chapter [checked] BOG/BOD [ ] Section [ ]

Attendance: (Total for chapter and section meetings only)

Members 26 Guests 5 Students

Theme Night? Name

Check One:

Joint Meeting? Yes [ ] No [checked]

Check One:

Technical Speaker/Program: Yes [checked] No [ ]

Indicate Topic: Mr. Daniel H. Nall, PE, FASHRAAE, FAIA, FUSGBC, BEMP, HBDP provided three presentations on Green and Sustainable Building Design and Operation. Weil McLain provided a lunch technical session on hybrid boiler plant design and operation. WVASHRAE held a November Planning Meeting prior to the tech session and presentations.

ASHRAE 2014 – 2015 Planning Meeting

Meeting Held at:
Hawk's Nest Room
Charleston Marriot Town Center
200 Lee St, E
Charleston, WV 25301

WVASHRAE Board Meeting:

- 1. Meeting called to order by President Grant Spencer.
2. In attendance:



- A. Mr. Grant Spencer – President
  - B. Mr. Jennings Davis – President Elect
  - C. Mr. Joe Rigney – Vice President
  - D. Mr. Art Hallstrom – BOG
  - E. Mr. John Pruett - Treasurer
  - F. Mr. James Lowry – CTTC Chair and Historian
  - G. Mr. Ted Zachwieja – Membership Promotion Chair
  - H. Mr. Shane Hall – Program Chair
  - I. Mr. Will Dempsey – YEA Chair
  - J. Mr. Samuel Butzer – Secretary
3. Previous meeting minutes approved.
  4. Future meetings:
    - A. January 9<sup>th</sup> at the Fireside Grille. Mr. Samuel Butzer presenting on Combined Heat and Power.
    - B. Soon after – Northern chapter meeting held in Morgantown.
      - i. Meeting is subsequently been scheduled for lunch time on January 22<sup>nd</sup> with Mr. Samuel Butzer also presenting on CHP
  5. Next followed an open discussion amongst all in attendance about issues important to ASHRAE and West Virginia:
    - A. EPA’s new regulations and guidelines and the possible effects on WV.
    - B. Coal – gasification of coal to stimulate a hydrogen economy?
    - C. Recently, China and the US make agreements on carbon dioxide emissions and other greenhouse gases.
  6. Grant Spencer and Art Hallstrom attended an energy conference.
  7. Thanks to Mr. Nall for traveling to WV and committing to so much time and information.
  8. Much thanks to Shane Hall and Art Hallstrom for making today’s meeting possible.
  9. The March EXPO in Charleston was discussed.
    - A. Three hours for distinguished lecturers.
    - B. Art Hallstrom to present on BEQ.
    - C. Agreement was made to have all ASHRAE events on Day One only.
  10. President Elect Jennings Davis:
    - A. PAOE Status: All reports were in by October and submitted to Regional Chair. All PAOE points accepted.
    - B. All “Full Circle” Research Promotion donations have been submitted.
  11. Student Activities requires more action.
  12. Membership growth – Recruiting.



- A. Reach out to Manufacturers, Manufacturer's Representatives, Consulting Engineers for new membership growth.
13. Chapter Communications:
- A. Constant Contact
  - B. Chapter Operations
  - C. Membership Contact
  - D. ASHRAE Base-Camp (similar to Drop Box)
14. There will be a Planning Meeting in December?
15. Documentation is needed for promotion – possibly make Brochures?
16. Can we (will we) create a Linked-In group for WVASHRAE?
- A. There is a National ASHRAE Facebook page.
  - B. WVUSGBC has success using Facebook and Linked-In.
  - C. To be started and controlled by Ted and Will.
17. Communication's issues we saw while trying to “promote” today's event:
- A. Emails with over 100 addresses might be blocked or labeled as SPAM.
  - B. Constant contact emails might be blocked.
  - C. Email process definitely had failures in advertising and promoting today's event.
  - D. Future emails from Art Hallstrom only in smaller batches.
  - E. Three separate emails – Initial advertisement, three weeks out, two weeks out.
  - F. Survey members in the future about their preferred choice of contact.
18. Payment issues associated with today's event:
- A. There were Pay-Pal payments through the WVASHRAE website and through Constant Contact and the Treasurer was not able to see all payments.
  - B. In the future – Register and Payment only through WVASHRAE website.
19. Art Hallstrom – GGAC Chair:
- A. Art performed BEQ on a building in Hurricane – building received a C.
  - B. Upcoming meeting with Hurricane City Manager to discuss Net Zero buildings.
20. The past president is in charge of nominations.\
21. Chapter Planning Meeting needs a Date –sometime in May?
22. New Officers will be installed by March
- A. Vote early in March.
  - B. New Officers acknowledged at EXPO.
23. Meeting Adjourned (meeting was rushed and non-typical, we had attendees starting to arrive for the upcoming presentations and technical session).



12:15 PM – 12: 45 PM – Tech Session Sponsored by Weil McLain

Presented by: Mr. Dave Burggren Weil McLain Director of Commercial Sales

Mr. Burggren will highlight application considerations for commercial condensing boilers, and commercial condensing boilers paired with standard efficiency boilers in a hybrid arrangement. After highlighting the rating conditions (water temperatures) boiler manufacturers are required to use, we will do a comparison. We will use local weather data for a specific example building, model existing coil performance under varying water temperature conditions, and then integrate the two to help validate boiler selections.

1:00 PM – 2:00 PM Designing Green Communities: Sustainable Infrastructure

Presented by: Mr. Daniel H. Nall, P.E., FASHRAE, FAIA, FUSGBC, BEMP, HBDP. GBCI Approved | 1 CE Hour | 0090006542 - AIA Approved | 1 LU | DGC001 ASHRAE Approved 1PDH

Community planners have the opportunity for significant reduction of the environmental impact of human activity. The current interest in green buildings often overlooks the far greater conservation potential of sustainable communities. Creating net zero energy and net zero water usage communities is much easier than creating single buildings with the same performance. Communities can be vital, complex ecologies that obtain maximum use of consumed resources while minimizing waste discharge. These goals are best achieved by exploiting the synergies among the separate infrastructure systems while obtaining multiple benefits from each conservation strategy. For example, greenways can provide not only pedestrian pathways but also management and cleansing of storm water run-off. Co-location of neighborhood scaled power, thermal, and waste water treatment plants allows the by-products of each system to be used as resources for others. Sewage treatment plant gas can offset some fuel usage for power generation and sewage treatment plant water effluent provides cooling tower make-up for the cooling plants. Pursuing these issues at the community level addresses issues at the most effective scale. For example, sewage treatment is best handled at a neighborhood scale so that the treated effluent water can be recycled for local non-potable uses, such as irrigation, exterior housekeeping and flushing. Renewable energy production, on the other hand, is best handled on a regional scale, so that sites can be selected for most effective harvesting of the resource. When these strategies are pursued in a single building, both conservation and economic effectiveness are often seriously diminished.

2:00 PM – 3:00 PM - Innovative Systems for Energy and Water Conservation: Four Corporate Headquarters

Presented by: Mr. Daniel H. Nall, P.E., FASHRAE, FAIA, BEMP, HBDP. GBCI Approved | 1 CE Hour | 0090008184 - AIA Approved | 1 LU | ISEWC2012 ASHRAE Approved 1 PDH

This presentation discusses the fundamentals of energy and water conservation in buildings, focusing on building mechanical systems. It then presents how these principles have been implemented in four corporate headquarters offices buildings around the world. Different approaches to energy conservation are presented, ranging from architecturally integrated HVAC systems to innovative applications of packaged equipment. Presented water conservation strategies range from water conserving fixtures through desalination of brackish groundwater.

3:00 PM – 4:00 PM – LEED 4.0 Energy and Atmosphere Credits

Presented by: Mr. Daniel H. Nall, P.E., FASHRAE, FAIA, BEMP, HBDP



GBCI Approved | 1 CE Hour | 0090006392 - AIA Approved | 1 LU | EAO001  
ASHRAE Approved 1 PDH

This presentation gives a synopsis of the LEED v4.0 Energy and atmosphere credits. It begins with a general description of and history of LEED. It then describes the pre-requisite requirements for this section. Next is a detailed discussion of EAc2, looking at the how the points are awarded, at the flow chart of the process of accruing points. Then follows an in depth discussion of whole building simulation and a detailed discussion of ASHRAE 90.1, Appendix G. Next is a discussion of the characteristics and limitations of the Appendix G methodology and the energy conservation strategies that perform well for this method. Then, some of the ancillary tools for whole building energy simulation are presented. Following the EA cr2 discussion, each of the other credits is discussed.