

Capital Communiqué



2010 - 2011

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TBD

CRC Action

TBD

ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

<http://www.ashrae.ottawa.on.ca> **OTTAWA VALLEY CHAPTER** e-mail: contact@ashrae.ottawa.on.ca

EVENING PROGRAM

DATE: Tuesday **November 16, 2010**. Social: 17:30 Dinner: 18:30 Program: 20:00
Travelodge Ottawa Hotel & Conference Centre, 1376 Carling Avenue, Ottawa,
Ont., 613-722-7600

THEME: **Research**

PROGRAM: **LEED is NOT Commissioning**

SPEAKER: **Bill McCartney CPMP**

OVERVIEW: While LEED has driven commissioning into projects that it would not otherwise be considered for, this has also created much confusion as to what constitutes commissioning especially for the owner, design team, and contractors. The presentation hopes to define some of the commissioning responsibilities such as ASHRAE Guideline 0-2005, Guideline 1.1-2007 and discuss such areas as LEED NC, CS, CI and EB:OM.

BIO: Bill McCartney, a partner with Isotherm Engineering Ltd. He has 44 years experience in the HVAC&R industry and holds a Trade Certification as a Refrigeration and Air Conditioning Mechanic. He has been involved in commissioning nearly 100 projects from schools, to large commercial projects. Included in this list are long term health care facilities, numerous water treatment/sewage facilities, police headquarters, prisons, hospitals, sports complexes, universities, high density high-rises and many LEED projects. Bill is a past president of the Ontario Refrigeration Contractors Association and of the Canadian Refrigeration Air Conditioning Contractors Association; a voting member of several technical and project committees for the American Society of Heating, Refrigerating and Air- Conditioning Engineers; and is ASHRAE Commissioning Process Management Professional certified



Menu

Chapter Members: \$35.00 Guests: \$50.00

Assorted Rolls and Butter

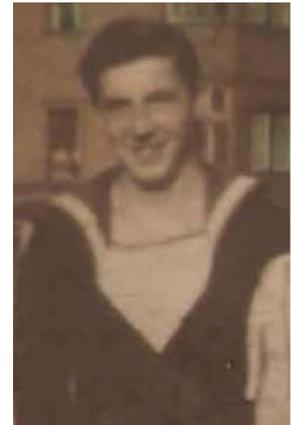
Pecan & Maple Mustard Crusted Pork, served with roasted potatoes and vegetables

Dessert is strawberry short cake with coffee or tea



President's Message

by Christine Kemp
2010-2011 OVC President



"Grampa Joe"



Lest we forget

On the 11th hour of the 11th day of the 11th month, Canadians are asked to pause in memory of the thousands of men and women who sacrificed their lives in military service.

As we prepare to fall back for Fall, please remember those that did not fall back.

My grandfather, Joseph Lynch, was born in Saint John, New Brunswick; he lied about his age to get into the Navy. He served all through World War II as a gunner on the ships. He didn't talk much about the war but he did tell my mom that he lost many good friends. Every Remembrance Day my Grampa Joe would dress in full uniform loaded down with medals and walk down Elgin Street to the War Memorial - what a sight. That I will always remember.

As I go on in life, I find History very interesting, that wasn't always the case. I wish I could go on and on and tell you war stories that he shared with me, but I can't. Don't make the same mistake I did. It is too late for me as he has passed on. Please make a point of talking to these heroes and passing their stories on to your families.

Canada's living veterans

War	Surviving veterans	Average Age
WWI	0	-
WWII	163,450	86
Korea	12,710	77
All veterans*	591,900	54

*regular Canadian Forces and primary reserves

Please go to the attached link, our Rod Potter is a supporter of the following:

"Memory project" <http://www.thememoryproject.com>

This is Heritage Canada sanctioned and is all about getting vets to recount their wartime experiences before it is too late.

Why the poppy?

During the Battle of Ypres in 1915, Canadian Lt.-Col. John McCrae was inspired to write the poem *In Flanders Fields* on sighting the poppies growing beside a grave of a close friend who had died in battle. The poem was a great inspiration in adopting the poppy as the Flower of Remembrance.



What You Missed – October Meeting

by Rod Potter
Secretary, Chapter Historian, Gopher and Webmaster

This meeting was preceded by a tour of the **Centre des Métiers Minto** – Campus Alphonse-Desjardins in Orléans. The tour was led by Joel Primeau of a facility that will be LEED-NC Silver (likely Gold) building that is over 35% better than ASHRAE 90.1.

The main meeting took place at the Travelodge Hotel and Conference Center on Carling Avenue in Ottawa. We were relocated to one of the conference rooms on the lower level of the facility at short notice. Our treasurer Don Weekes was unable to connect to the internet and the lower level location may have contributed to this. Sign-in and payment was all manual which will hopefully be rectified for the November meeting. The smiling faces of Greeters Karen Peck and Mike Swayne made up for these shortcomings.

As normal the business session started with President Christine Kemp introducing the Board of Governors and Executive, followed by Secretary Rod Potter who introduced the guests for the evening. Membership Chair Adam Moons introduced the new members. Governor Steve Moons reminded us of the upcoming Bowling Social on November 9th, 2010. Governor Patrick Albert oversaw the Senators Game Ticket Giveaway Draw which was won by Robert Kilpatrick – this draw earned the chapter \$215. Jason De-Sousa discussed the technical tour of Centre des Métiers Minto.

Governor Georges Maamari spoke on the Regional TEGA Awards; our chapter received great recognition at the Regional level; obtaining a total of six (6) first place finishes and 2 honorable mentions - refer to website for major details here: http://www.ashrae.ottawa.on.ca/ashraeoc_history/2009-2010/ashraeoc_history_2009-2010_Awards.shtml

Dinner was a delicious buffet between 7 and 7:45 PM. The business session continued afterwards - President Christine Kemp thanked the parties who provided Table Top Displays:

- [Walmar] John Tepes of Spring Air described their display;
- [Master] Denis Murphy of LG described their display;
- Niraj Chandra described his new book “Making Money from Renewable Energy”.

Our speaker for the evening was Subash Vohra of NRC, who presented on Co-Generation systems in general and described the cycles involved, basic equipment, prime movers, and centralized power plants. He finished with a description of NRC’s own Co-Generation system, and a short explanation of the absorption refrigeration cycle. President Christine Kemp thanked Subash for all of his hard work and gave him a small gift. The meeting adjourned 8:45 PM.



President Christine Kemp



Speaker Subash Vohra



ASHRAE Society News

by Steven Moons
2010-2011 OVC Governor

News This Month from ASHRAE Society

Standard 90.1-2007 Available as Free Download

ATLANTA –In order to move the industry forward toward more energy efficient design, ASHRAE is making it easier than ever before to access its flagship energy standard, 90.1, available as a free download for a limited time.

Through a funding contract with the Department of Energy, copies of the I-P edition of ANSI/ASHRAE/IES Standard 90.1-2007, *Energy Standard for Buildings Except Low-Rise Residential Buildings*, are being offered as a free downloadable PDF at www.ashrae.org/standard901-2007-free, starting Oct. 22, 2010.

“Standard 90.1-2007 is widely used throughout the design community, and the download version makes it available to users at their own computers for ready and easy access,” ASHRAE President Lynn G. Bellenger said. “Making the standard available for free ensures that it penetrates the marketplace and reaches owners, contractors and design teams. We appreciate the support of the Department of Energy in reaching a wider audience and extending access to our flagship energy conservation standard.”

Since being developed in response to the energy crisis in the 1970s, Standard 90.1 has become the basis for building codes, and the standard for building design and construction throughout the United States.

As buildings consume approximately 40 percent of the primary energy in the United States, the standard is an indispensable reference for engineers and other professionals involved in the design of buildings and building systems.

ASHRAE Publishes 2010 Editions of Refrigerant Safety Standards

ATLANTA – The 2010 editions of ASHRAE’s major refrigerants-related standards have been published as a package with 14 new refrigerant blends added.

Requirements in ANSI/ASHRAE Standard 34-2010, *Designation and Safety Classification of Refrigerants*, and ANSI/ASHRAE Standard 15-2010, *Safety Standard for Refrigeration System*, complement each other in that Standard 34 describes a shorthand way of naming refrigerants and assigns safety classifications based on toxicity and flammability data, while Standard 15 establishes procedures for operating equipment and systems when using those refrigerants. ASHRAE sells the standards as a set.

Standard 34-2010 combines the 2007 standard and 37 published addenda. Among the key changes incorporated into the 2010 edition are:

- assignment of designations and safety classifications for one new single compound refrigerant and 14 new refrigerant blends
- addition of occupational exposure limits for refrigerants to Tables 1 and 2
- addition of new data and updates of refrigerant concentration limits (RCL) and safety classifications for several existing refrigerants
- addition of an optional 2L subclass to the existing Class 2 flammability classification, which signifies Class 2 refrigerants with a burning velocity less than or equal to 10 cm/s.
- introduction of a modified method of calculating the heat of combustion for refrigerants along with inclusion of an illustrative example of the calculation
- addition of an informative appendix showing an example of the calculation of the acute toxicity exposure limit and refrigerant concentration limit for a refrigerant blend

Changes to Standard 15 include incorporation of nine new addenda. The changes made through these addenda include:

- revision of requirements for terminating relief vent discharge lines
- revision to bring the standard into alignment with UL 984 (*Hermetic Refrigerant-Motor Compressors*)
- addition of definitions so the standard can better provide for the safety of cascade refrigeration systems
- revision to provide appropriate guidance for the protection of positive displacement compressors when used in cascade refrigeration system configurations
- revision to bring the standard into alignment with Standard 34, by removing Table 1 for “refrigerant quantity limits,” and uniformly using the term “refrigerant concentration limits”

Standard 15-2010 and Standard 34-2010 are sold together. The cost is \$89 (\$75 ASHRAE members). To order, contact ASHRAE Customer Service at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit www.ashrae.org/bookstore.

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Past President



Research Promotion

by Jason Alexander
2010-2011 OVC Past President
Goodkey Weedmark and Assoc.
1688 Woodward Dr.
(613) 727-5111 ex. 286

A new year of ASHRAE gatherings means a new season and the start of the 2010-2011 Research Promotion campaign. Last year region II once again exceeded expectations and raised over \$144,000.00. This success was due in part to the tremendous efforts of last year's chair Patrick St. Onge. Congratulations Pat!

This year we have been given an even more ambitious goal of \$24,000.00. We are already off to a good start, in part to online donations, full circle donations and the senator's ticket raffle last meeting. Thank you for all your support!

100% of every dollar raised for research is used for research. In reality over 4 times the amount of money raised in region II is reinvested in research in region II. The research money reinvested in our region not only provides many opportunities to students and researchers but it also furthers our industry.

The mission statement of ASHRAE Research: To improve the quality of life and to answer tomorrow's questions through research TODAY.

Making a donation to Research is easy and can be done by two methods. The simplest method is to donate via check. Please make the check out to "ASHRAE Research Canada" and indicate in whose name the donation should be attributed to (corporate or individual). These checks can be sent to me, Jason Alexander, the Research promotion chair for 2010-2011, or simply call and I would be more than happy to pick up the check. I can also drop off a receipt for your records. My coordinates can be found at the top of the page. Donations can also be made directly to society online.

At the November meeting I will be congratulating all of last year's key contributors. I will be in touch personally to invite you to attend. And as the season goes on I will be posting recognition here for donations.

Thanks for all your continued support.



Table-Top Displays

by Frank Bann
2010-2011 OVC Past-President

DuraSYSTEMS

DuraSystems Barriers Inc.
199 Courtland Avenue
Vaughan, Ontario L4K 4T2

Tel: 905-660-4455
Fax: 905-660-8887

DuraSystems Barriers Inc. – ASHRAE Ottawa Table Top

DuraSystems Barriers Inc. has been a pioneer in the passive fire protection business for over 20 years. We are a manufacturer specializing in supplying passive fire, blast and impact resistant systems and assemblies to commercial, institutional and industrial market sectors. We have provided fire protection solutions for many industries including the following: offshore oil and gas platforms, government security, military, telecommunication and electrical power utilities, petrochemical, transportation, mining and resource industries, as well as for commercial construction.

DuraSystems also have formed a partnership to distribute The Schebler Company chimney systems across Canada. Systems include Boiler Venting (including BH type), Generator Exhaust, Zero Clearance Kitchen Exhaust and Draft Induction Fans. Specialty fabrication such as Free Standing stacks; Custom Stainless systems as well as Kitchen/Food Equipment are also available.

Products on Display:

- DuraSystems Barriers Inc.
 - DuraSystems DuraDuct: the largest cULus listed fire resistant duct in the industry
 - DuraSystems DuraWall: Pre-Fabricated cULus listed fire and thermal panels
 - DuraSteel: Fan, Pipe, Cable Tray Enclosure systems and applications
- The Schebler Co. Chimney Systems
 - FyreGuard: UL2221 listed '0' clearance grease duct
 - eVent: BH venting for high efficiency appliances
 - Laboratory Exhaust: Stainless steel single wall systems

DuraSystems is presented by:



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Ray Rochefort Area General Manager	

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Governor



ASHRAE 2010 Bowling Social

by Steven Moons
2010-2011 OVC Governor

Ladies and Gentlemen,

A last reminder about the 2010 ASHRAE Bowling Social, to be held on **Tuesday, November 9th, 2010** at the Merivale Bowling Center (1916 Merivale Rd., Ottawa, www.merivalebowlingcentre.com).

The format will be three games with 4 people per lane. **7:00 pm start. Please show up at 6:30 to register.** The entry fee is \$120 per foursome, or \$30 per individual. The entry fee includes 3 games, shoe rental and nachos/wings/pizza. Individual participants will be assigned into groups of four.

This is intended to be a social event to promote the camaraderie and fellowship of ASHRAE, please consider attending. Spots are filling up, but space is limited to 32 people, so please send your registration soon! We can expand to more lanes if interest requires it, but we must have sufficient notice to do so. If you have any questions, or need more information, please don't hesitate to contact me.

Steve Moons

Registrations will be confirmed via email.

___ Please reserve 1 Foursome....\$120.00

___ Please reserve 1 Individual....\$30.00

Company_____

Contact_____

Email _____ Phone_____ Fax_____

Payment can be made in advance via cheque, VISA or email money transfer. Cheques are payable to: ASHRAE Ottawa Valley Chapter and mail or deliver to:

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Committee
Chair



Student Activities

by Matthew Edmonds
2010-2011 Student Activities Chair

Now that November is here, it means many of the “student activities” for the year are well underway. The Algonquin Design team is hard at work with their project and busy working with Mentors Chris Frauley and Barry Riddell. We have also heard from the students at CEGEP de L’Outaouais who, under the Mentorship of Marc Chiasson, will be putting forth a project again this year. As always we are excited to see what comes out of the fresh minds of students who have yet to be corrupted by salesmen!

In other exciting news, we have reconnected with Queen’s University who has a group of students that is very interested in reestablishing a Student Branch. We will continue to work closely with them and hopefully even get them involved in the Design Competition, if not this year, maybe next! Talks have also begun with Carleton University to reestablish that Student Branch. If all goes well over the coming months we should see many more students at our meetings, and as part of our industry as they graduate and move into the “real world”. Next up will be the conquering of the University of Ottawa...

As with all other monthly meetings, we encourage individuals or companies to support a student through sponsoring their meals. Please let the greeters at the front know that you would like to sponsor a student for the night. If you would like to sponsor student meals throughout the year we will recognize your contributions by issuing you a receipt for your investment in Student Activities, publish your name and/or company’s name on our website, and include you in our list of previous donors in the Capital Communiqué. We hope to see even more of a student presence this year, which means we will really need your help! Your contributions last year allowed us to keep the students coming to each meeting even though they were on limited budgets, so thank you so much for your support, and let’s keep it up!

All the best, and we will see you at the next meeting,

Matthew Edmonds
Student Activities Chair

More student related information from ASHRAE:

Check This Out:

ASHRAE Student Zone: Scholarships and Grants to Careers and Internships... <http://www.ashrae.org/students/>

ASHRAE Scholarship Program <http://www.ashrae.org/students/page/1271>

Smart Start Program – Don’t know what it is? Every Student Should! <http://www.ashrae.org/students/page/703>

Dates to remember:

Undergraduate Engineering Scholarships

Application Deadline: Dec. 1

Scholarships are awarded for the academic year following the application deadline beginning with the fall semester. Re-applications accepted from former scholarship applicants and recipients.

Available to full-time undergraduate engineering or pre-engineering students pursuing a Bachelor of Science or Engineering degree in a course of study that traditionally has been a preparatory curriculum for the HVAC&R profession. Applicants must be enrolled in a program or accepted to a post-secondary educational institution that meets at least one of the following criteria:

- the institution hosts a recognized ASHRAE student branch (www.ashrae.org/students)
- the program is accredited by the Accreditation Board for Engineering and Technology (ABET) in the USA (www.abet.org)
- the program is accredited by an agency outside the USA that has signed a Memorandum of Understanding with ABET or The Washington Accord (www.abet.org)

Applicants must have a cumulative Grade Point Average (GPA) of at least 3.0 on a scale where 4.0 is the highest and/or a class standing of no less than the top 30% and submit the following in one envelope postmarked by the application deadline.

1. Completed application in English.
2. Official transcript of college grades (if college grades are not available by the application deadline, submit high school grades and verification of enrollment in or letter of acceptance to a post-secondary educational institution.)
3. A letter of recommendation from an instructor or faculty advisor, a current or past employer, and another character reference. In the case of institutions with an ASHRAE student branch, include a letter from the faculty advisor of that branch (may be one of the three letters of recommendation). Comments from the Student Activities Chair of an ASHRE chapter, if one is within reasonable distance of home or school following an interview with the applicant, are strongly recommended and may be submitted electronically.

For a list of schools with an ASHRAE student branch or accrediting agencies recognized by ASHRAE for the purpose of granting a scholarship, click on the links provided or contact Lois Benedict at lbenedict@ashrae.org or 404-636-8400 (ext. 1120).

\$10,000 Undergraduate Engineering Scholarships

- **Willis H. Carrier Scholarships** — Two one-year \$10,000 undergraduate engineering scholarships available annually. Scholarship was established by The Carrier Corporation in memory of its founder, who's known widely for his numerous and significant contributions to establishing air conditioning as an industry. Carrier installed the world's first scientifically designed air conditioning system in 1902
- **Reuben Trane Scholarships** — two-year \$10,000 undergraduate engineering scholarships awarded \$5,000 per year over two years. Scholarship was established in memory of The Trane Company founder, an engineer, inventor & business executive, whose manufacturing enterprise ranks today as one of the world's largest in the HVAC&R industry.

\$5,000 Undergraduate Engineering Scholarship

- **Frank M. Coda Scholarship** — a one-year \$5,000 undergraduate engineering scholarship available annually. Scholarship was established in memory of former ASHRAE Executive Vice President, who served the Society from 1981-2004.

\$3,000 Undergraduate Engineering Scholarships

- **ASHRAE General Scholarships (2)**
- **ASHRAE Memorial Scholarship (1)**
- **Alwin B. Newton Scholarship (1)**
Scholarship was named for an industry pioneer, who was granted 219 patents.

- **Duane Hanson Scholarship (1)**

Scholarship is named after the president of Gayner Engineers, a consulting mechanical/electrical engineering firm in San Francisco, California.

- **Henry Adams Scholarship (1)**

Scholarship was established by Henry Adams, Inc, a consulting firm based in Baltimore, Maryland, in memory of its founder, a charter member and sixth president of ASHRAE's predecessor society, ASHVE, in 1899.

Undergraduate Engineering Technology Scholarships

Application Deadline: May 1

Scholarships are awarded for the academic year beginning with the fall semester following the application deadline. Re-applications accepted from qualified former scholarship applicants and recipients

Applicants must have a cumulative Grade Point Average of at least a 3.0 on a scale where 4.0 is the highest and/or a class ranking of no less than the top 30% (evidenced by an official transcript of grades or statement from a school administrator) and meet all other basic criteria.

Engineering Technology Scholarship (3)

One-year \$3,000 scholarships available annually to full-time undergraduate Engineering Technology students enrolled in or accepted to a post-secondary educational institution for a bachelor degree or an associate degree and pursuing a course of study, which has traditionally been a preparatory curriculum for the HVAC&R profession, provided one of the following criteria is met:

- the institution hosts a recognized ASHRAE student branch (www.ashrae.org/students)
- the program is accredited by the Accreditation Board for Engineering and Technology (ABET) in the USA (www.abet.org) or an equivalent agency outside the USA that is a signatory of The Sydney Accord <http://www.washingtonaccord.org/sydney/sydneylinkages.cfm>
- the program is accredited by the Partnership for Air Conditioning, Heating, Refrigeration Accreditation (PAHRA) (<http://www.pahravacr.org/>)

For a list of schools with an ASHRAE student branch or accredited programs recognized by ASHRAE for the purpose of granting an Engineering Technology Scholarship, click on the links provided above or contact Lois Benedict at lbenedict@ashrae.org or 404-636-8400 (ext. 1120).

Applicants must submit the following with the application completed in English in one envelope and postmarked by the application deadline:

1. Official transcript of college grades (if college grades are not available by the application deadline, submit high school grades and verification of enrollment in or letter of acceptance to a post-secondary educational institution.)
2. A letter of recommendation from an instructor or faculty advisor, a current or past employer, and another character reference. In the case of institutions with an ASHRAE student branch, include a letter from the faculty advisor of that branch (may be one of the three letters of recommendation). Comments from the Student Activities Chair of an ASHRE chapter, if one is within reasonable distance of home or school following an interview with the applicant, are strongly encouraged and may be submitted electronically.



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Committee Chair



Membership Update

By Adam Moons
2010-2011 OVC Membership Promotion Chair

Again! Wonderful turnout! It was delightful to see both existing members, and their guests, at our most recent event. Hopefully we can maintain this momentum throughout the year!

An important issue that I would like to call to your attention is the retention of members. ASHRAE is a brilliant organization, filled with amazing minds and talents, and I think we should all be honored to consider ourselves a part of it. For all of us, being a part of ASHRAE, and enjoying the benefits that membership brings, comes with certain responsibilities as well. The only way for a volunteer organization like this to function well is for communal action. We all need to help with the small things that lead to the growth of a strong Chapter, and a more vibrant membership.

I humbly request that if you know someone who has been a member in the past, or who may have questions regarding ASHRAE membership encourage them to contact me. I will be happy to assist with anything that may be needed. Also feel free to remind them of meeting times and locations, to confirm meals, and to keep up with dues. If everyone does a bit, we all win. Especially me (I've got targets to meet).

My sincerest thanks for your continuing support.

I would also like to introduce and welcome the following new members:

Mr. Luke MacKinnon Mr. Chris Tromp Miss Elizabeth Liddy

I can't wait to see you at bowling and/or the next ASHRAE event!

Cheers.
Adam Moons
Membership Chairperson / OVC



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Governor



Senators Ticket Giveaway

By Patrick Albert
2010-2011 OVC Governor

At our November meeting, we will be raffling off some Senators ticket to see the Oilers take on the Senators on November 29th, 2010!

Theses tickets have been donated by Goodkey Weedmark & Associates Ltd.



I WOULD LIKE TO THANK THE GUYS AT GOODKEY WEEDMARK FOR THEIR SUPPORT IN ASHRAE RESEARCH!

We will be selling the tickets during the social, \$5.00 for one ticket and \$10.00 for three tickets. All proceeds go to ASHRAE research.

If you would like to donate some tickets to the senators to help ASHRAE research, please contact me at any time.

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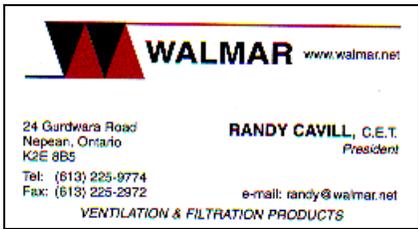


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Committee
Chair



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by Rod Lancefield

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