

History



British Columbia Chapter

THE FIRST 70 YEARS
1952 - 2022

Ralph Robson

With assistance from Ken Meadows and Bob Cawker

Gary Way

Norm Grusnick



The

BRITISH COLUMBIA



CHAPTER

HISTORY

THE FIRST 35 YEARS

1952 - 1987



AMERICAN SOCIETY OF HEATING, REFRIGERATING
AND AIR-CONDITIONING ENGINEERS, INC.

British Columbia Chapter History

THE FIRST THIRTY FIVE YEARS

Ralph L. Robson: Historian

INTRODUCTION

The British Columbia Chapter of The American Society of Heating and Ventilating Engineers (ASHVE) received its Charter on April 9, 1952.

The presentation was made by Society President Ernest Szekely to Chapter President M.E. (Eth) Minaker at the Vancouver Quadra Club.

The formation of the Chapter was the result of three years of concerted effort by a team of enthusiasts led by Eth Minaker, Dan Thomson, and Charlie Leek. Achieving the required minimum number of members was the chief stumbling block. Thirty-six members attended the Charter Night Ceremony and celebration.

The Chapter has experienced steady growth from the original 36 members to the present 455. (This last figure includes the Vancouver Island Chapter for comparison purposes).

Over the years, the Charter Members have served the Chapter well - 15 have been Chapter Officers, and 11 have been Chapter Presidents.

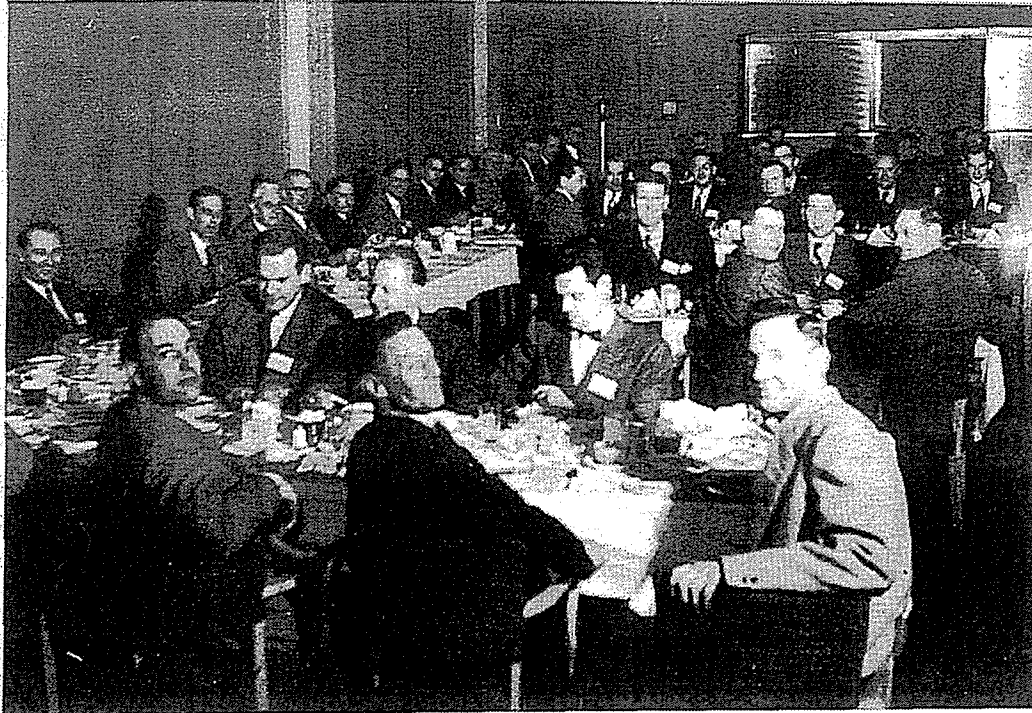
Early dinner meetings were held at the Quadra Club, The Pines, The Sands, The Q.E. Theatre Restaurant, Leon's Restaurant, and The Biltmore Hotel. Meals used to be \$2.00 and "refreshments" were 3 for \$1.25. Chapter membership was \$5.00 (or if you joined during the 2nd half of the fiscal year -- \$2.50).

As you read through the following pages, you may understand that we are justly proud of the Chapter's progress and accomplishments during our first thirty-five years.

It is this historian's intention that the Chapter will produce an up-dated history every five years.

CHARTER MEETING

APRIL 9, 1952



Chapter Officers - Charter Year

Honorary President - Walter Leek
(Society Member Since 1903)
President - M.E. (Eth) Minaker
Vice-President - C. W. (Charlie) Leek
Secretary - D.W. (Dan) Thomson
Treasurer - C. (Cornie) Van Boeyen

Charter Members

R. Anderson	W.F. Keenan	H.J. Rosenberg
G.H. Birnie	P.G. Lakes	R.P. Scanlan
J.M. Bird	D.B. Leaney	A.W. Sheret
W.R. Course	R.A. Malcolm	A.E. Spowage
H.S. Crombie	A.C. Martin	J.C. Thompson
D.M. Drake	J.L. Maw	R.C. Tufts
S.C. Gale	R.B. McDonell	C.H. Turland
R.D. Hale	J.K. McMillan	R.M. Warren
R.W. Hole	E.H. Norton	S.W. Welsh
A.W. Johnston	A.L. Pike	W.F. Wiggins
R.E. Johnston		

Charter

FOR THE ORGANIZATION OF THE

British Columbia Chapter

OF

The American Society of Heating and Ventilating Engineers

1. This Chapter is established for the purpose of advancing the arts and sciences of heating, ventilating, cooling and air conditioning, and the allied arts and sciences.
2. This Chapter shall be governed by the provisions of the Society's Certificate of Incorporation and By-Laws, the Rules promulgated by the Council in harmony therewith, and any amendments to the foregoing.
3. Only members of the Society in good standing, residing in the vicinity of this Chapter's headquarters, shall be eligible to become and remain members of this Chapter.
4. This Charter is revocable by action of the Council taken pursuant to the Society's By-Laws and Rules.

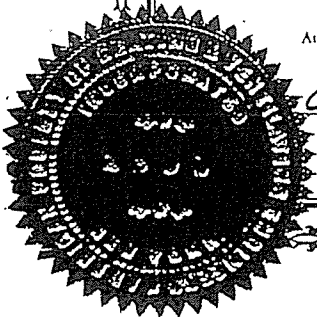
Issued this 27th day of January 1952

THE AMERICAN SOCIETY OF HEATING
AND VENTILATING ENGINEERS

By Lauren E. Seesley
PRESIDENT

Attest:

C. V. Hutchinson
SECRETARY



CHAPTER HIGHLIGHTS --1952-1987

1952

Society approved the formation of the British Columbia Chapter in January.

The British Columbia Chapter held it's Inaugural Meeting on March 12, 1952.

The Charter Presentation Ceremony took place on April 9, 1952.

1952-53

M.E. Minaker	President
C.W. Leek	Vice-President
D.W. Thomson	Secretary
C. Van Boeyen	Treasurer

1952-53

A Chapter "get-together" was held at the Stanley Park Pitch and Putt Golf Course in the summer of 1952.

An informal technical meeting during the summer featured Prof. S. Konze, University of Illinois, speaking on "Recent Trends in Forced Warm Air Heating".

Work was in progress on the first Chapter Constitution and By-Laws.

Twelve Chapter members attended the Society Meeting in Chicago in January. President Eth Minaker was the official Chapter representative.

Thirty-five students and faculty members from the Department of Mechanical Engineering at the University of British Columbia were guests of the Chapter at the February meeting. These were final year students who had elected to take the Heating and Ventilating option.

Honorary President Walter Leek Passed away.

The First Annual Chapter Fishing Derby was held at Horseshoe Bay in June.

The First Annual Chapter Golf Tournament took place at Peace Portal Golf Club in July.

1953-54

C.W. Leek	President
S.C. Gale	Vice-President
D.A. English	Secretary
C. Van Boeyen	Treasurer
D.M. Drake	Governor
R.D. Hale	Governor
D.B. Leaney	Governor
M.E. Minaker	Governor
C.H. Turland	Governor
S.W. Welsh	Governor

1953-54

A Chapter Christmas Dinner/Dance was enjoyed by 146 members and guests at the new Totem Room at Capilano Suspension Bridge on December 9th.

S.C. (Stan) Gale represented the Chapter at the Society January Meeting in Houston, Texas.

Twenty-four mechanical engineering students and faculty members attended the Chapter's U.B.C. Night.

Society President, L.N. Hunter spoke to the members on "The Activities of A.S.H.V.E." at the April meeting.

Chapter members of A.S.H.V.E. attended the A.S.R.E. Chapter meeting in May.

1954-55

S.C. Gale	President
C. Van Boeyen	Vice-President
D.A. English	Secretary
R.D. Hale	Treasurer
J.M. Bird	Governor
E.H. Norton	Governor
J.C. Thompson	Governor
D.W. Thomson	Governor

1954-55

A.S.R.E. members attended the A.S.H.V.E. Chapter meeting in October.

The Annual Christmas Dinner-Dance was held at the Thunderbird Room at Capilano Suspension Bridge.

In anticipation of the amalgamation of the two Societies, a joint meeting of A.S.H.V.E. and A.S.R.E. local chapters took place in January.

C. (Cornie) Van Boeyen represented the Chapter at the Society Meeting in Philadelphia in January.

The Society change of name from American Society of Heating and Ventilating Engineers to the American Society of Heating and Air Conditioning Engineers (A.S.H.A.E.) happened sometime in 1955.

The January Chapter meeting was our annual U.B.C. Night with 24 students and 4 faculty attending.

The Chapter delegate to the Society Annual Meeting in San Francisco in June, was C. (Cornie) Van Boeyen.

The Chapter Annual Golf Tournament was at Peace Portal Golf Club in July.

1955-56

C. Van Boeyen	President
D.W. Thomson	Vice-President
A.C. Martin	Secretary
R.D. Hale	Treasurer
D.M. Drake	Governor
D.B. Leaney	Governor

1955-56

The first steps were taken toward having the 1959 Annual Society Meeting in Vancouver.

D.W. (Dan) Thomson represented the Chapter at the Society Winter Meeting in Cincinnati. Dan reported that the B.C. Chapter will be included in Region 7, the All Canadian Region.

C. (Cornie) Van Boeyen attended the Region 4 meeting in Portland in February.

Twenty-eight students and one faculty member attended the Chapter's U.B.C. Night in March.

The first official meeting of Region 7, (the all Canadian Region), in Toronto was attended by Cornie Van Boeyen as our Chapter Delegate.

The Annual Chapter Golf Tournament was at Peace Portal Golf Club in June.

1956-57

D.W. Thomson	President
A.C. Martin	Vice-President
W.L. Keenan	Secretary
W.F. Wiggins	Treasurer
D.B. Leaney	Governor
C.H. Turland	Governor

1956-57

Following continued efforts by an energetic committee, A.C. (Red) Martin reported that Society has confirmed the 1959 Annual Society Meeting will be held in Vancouver.

The first issue of our Chapter Newsletter appeared in February. J.K. (Ken) McConnell picked up the challenge from the Board of Governors and became the first editor of what was to become the British Columbia Totem.

A.C. (Red) Martin was the British Columbia Chapter Delegate to the Region 7 (Canadian) meeting in Ottawa.

The Annual Chapter Golf Tournament was held at the Peace Portal Golf Club.

1957-58

A.C. Martin	President
S.W. Welsh	Vice-President
W.F. Wiggins	Secretary
D.B. Leaney	Treasurer
R.E. Atkey	Governor
R.W. Hole	Governor
D.W. Thomson	Governor

1957-58

Social events, such as the Christmas Dinner-Dance, Golf Tournament, and Fishing Derby continues to be both enjoyable and self-supporting.

Hugh McConaghy introduces a Curling Bonspiel to the list of social events that play a major role in Chapter Activities.

S.W. (Sid) Welsh represented the Chapter at the Region 7 meeting in Winnipeg in May.

1958-59

S.W. Welsh	President
W.F. Wiggins	Vice-President
D.B. Leaney	Secretary
R.W. Hole	Treasurer
R.E. Atkey	Governor
R.A. Malcolm	Governor

1958-59

The Board of Governors initiated plans to establish an annual bursary or scholarship for a third year student proceeding into the fourth year with heating, ventilating and air-conditioning interests.

U.B.C. Student Night was a feature of the January Meeting.

In January, a mail vote was taken to allow members to signify which Region they would prefer within the proposed merged Society. With Region 7 (Canadian) and Region 10 (Pacific Coast) as the choices, Region 10 was the favourite at 72 votes against 17. The B.C. Chapter soon became part of Region 10 as a result of this vote.

A.C. (Red) Martin, General Chairman of the Host Committee for the 1960 Society Summer Meeting introduced the members of his Committee: Charlie Leek, Phil Snyder, Bob Butler, Eth Minaker, Bob McDonnell, Ernie Renouf, Art Lewis, Dan Thomson, and Reg Racine.

Bob Hole represented the Chapter at the Winter Meeting in Philadelphia. He was accompanied by nine members of the Chapter who each wore a colourful ribbon publicizing the Summer Meeting in Vancouver.

ASHVE and ASRE were officially merged to become the American Society of Heating Refrigerating and Air-Conditioning Engineers (ASHRAE).

Fraser Wiggins was the Chapter Delegate to the Region 2 (All Canada) meeting in Montreal and was accompanied by Sid Welsh and Cliff White.

1959-60

C.H. White	President
W.F. Wiggins	Vice-President
R.W. Hole	Secretary
W. Baker	Treasurer
F.J. Dwyer	Governor
J.M. Phillipson	Governor
S.W. Welsh	Governor

1959-60

The U.B.C. Student scholarship in the amount of \$250.00 was established.

Annual Chapter dues remained at \$5.00 per member.

The Annual Christmas Dance at Al Pollard's Oscars, and the Golf Tournament at Peace Portal were, as usual, successful.

ASHRAE ANNUAL MEETING

The 67th ASHRAE Annual Meeting was held at the Hotel Vancouver, June 13-15, 1960. This was a major accomplishment for a fledgling (8 year old) Chapter.

In addition to a wide range of technical subjects and business meetings, the B.C. Chapter offered social programs of impressive proportions. These included a golf tournament, a cruise of the Gulf of Georgia, and sight seeing tours. Activities for the children were a swim party, and a trip to Grouse Mountain Ski Lift.

Some interesting statistics were contained in the ASHRAE Journal, June, 1960. Immediately following the merger with ASRE, total Society membership was approximately 17,500. In the months that followed, there was a gain of nearly 2,000 for a total at June, 1960 of 19,600. There were 88 chapters, a gain of 3 and loss of 1 since the merger.

1960-61

W.F. Wiggins	President
D.B. Leaney	Vice-President
R.W. Hole	Secretary
W. Baker	Treasurer
F.J. Dwyer	Governor
J.M. Phillipson	Governor
S.W. Welsh	Governor

1960-61

Red Martin reported on the Society Annual Meeting in June, in Vancouver. His report left no doubt that it was an unqualified success.

Regional Director, Region X, Tom White visited the Chapter in November. Included in his comments were compliments for the success of the Annual Meeting. He said also that other Chapters should follow our lead in providing a student scholarship and mentioned the outstanding progress the Chapter had made in the few years since receiving it's Charter.

Fraser Wiggins and Dave Leaney were named as Delegate and Alternate for the Region X Meeting in Phoenix, Arizona.

President Fraser Wiggins announced that the U.B.C. student scholarship would be increased to "no less than \$300.00".

Chapter membership was 185 at the end of fiscal year 1960-61.

1961-62

D.B. Leaney	President
R.W. Hole	Vice-President
W. Baker	Secretary
J.M. Phillipson	Treasurer
F.J. Dwyer	Governor
R.B. Butler	Governor
R.W. Racine	Governor

1961-62

Editor's Comment: The 1961-62 year was the best for technical content of the programs presented at the Chapter Meetings, to date.

The first Chapter Operations manual was completed. Red Martin, Fraser Wiggins, and their committee prepared the Manual, specifically for the B.C. Chapter, to assist in the continuation of Chapter policies and in the smooth transfer of Chapter responsibilities from year to year.

The ASHRAE B.C. Chapter and the Mechanical Contractors Association of B.C. held a joint Christmas Party at Oscar's Steak House.

R.W. (Bob) Hole was the Chapter Delegate to the Region X Chapters Regional Committee (CRC) meeting in Seattle, Washington.

1962-63

R.W. Hole	President
W.F. Wiggins	Vice-President
M.J. Phillipson	Secretary
J.M. Bean	Treasurer
F.J. Dwyer	Governor
P.G. Daum	Governor

1962-63

Tom White, Regional Director, Region X visited the Chapter and spoke on the activities of the Society including the design and production of the Psychrometric Chart which would be distributed with the Guide in April, 1963.

The Annual Golf Tournament at Peace Arch Golf Club was attended by thirty-three players (sic), including seven from Puget Sound (Seattle) Chapter. In the summer of '63 the Golf Tournament was at the Vancouver Golf Club in Burquitlam.

Dan Thomson, Dave Brousson, Dave Leaney, and Mac Bird attended the ASHRAE Winter Meeting in New York.

Following the success of last year, the joint ASHRAE/MCABC Christmas Party was at Oscar's Steak House.

The Region X CRC was held in San Diego, California in May. (no record of B.C. Chapter representative, probably Jim Phillipson).

Chapter Vice-President, W. Baker passed away unexpectedly. Fraser Wiggins took his place for the balance of the year.

1963-64

M.J. Phillipson	President
J.M. Bean	Vice-President
R.P. Perry	Secretary
R.W. Racine	Treasurer
P.G. Daum	Governor
R.A. Malcolm	Governor
A.S. Lewis	Governor

1963-64

Regional Chairman Rod Kirkwood spoke to the Chapter members on Society activities, membership campaign and the research fund drive.

Region X CRC was held in Sacramento, California (no record of Chapter representation).

Chapter President M.J. (Jim) Phillipson was killed in a car crash while on a hunting trip to the B.C. interior.

1964-1965

J.M. Bean	President
R.P. Perry	Vice-President
R.W. Racine	Secretary
F.A. Seipp	Treasurer
R.W. Rahme	Governor
P.G. Daum	Governor
R.A. Malcolm	Governor

1964-65

At the beginning of the fiscal year the Chapter had 158 members.

Rod Kirkwood, Region X Chairman, spoke to the members on the importance of research funds and on Society's target of a minimum 10% increase in membership this year.

The Golf Tournament at the Vancouver Golf Club had a good turnout including a few from Seattle. We responded by having a contingent of our members attend the Seattle Tourney in Marysville, Washington.

The joint ASHRAE/MCABC Christmas Dance was at the Villa Motor Inn (\$11.00 per couple).

The Fishing Derby was a joint venture with the Calgarians at Shuswap Lake. There were 39 from Southern Alberta and 9 from B.C. "fished".

The November meeting featured a tour of the Fraser Valley Milk Producers Association's new plant on Lougheed Highway.

Dave Brousson, Mac Bird and Ernie Renouf attended the Semi-annual Society Meeting in Chicago, Illinois.

U.B.C. Student's Night continued to be an annual feature of Chapter Meetings.

1964-65 Cont'd)

REGION X CHAPTERS REGIONAL COMMITTEE, 1965

The Region X CRC was held at the Hotel Georgia in Vancouver, April 1-3, 1965.

In addition to the Technical meetings, business meetings, and caucus sessions there were adequate social functions which included: the Get-Together Dinner party at Marine Drive Golf Club (\$5.50 per person), Welcome Luncheon at the Hotel Georgia (\$3.00 per person), Dinner at the Hotel Georgia (\$5.00) and special events for the ladies.

Of Course, Red Martin, (who could do it better?) was Chairman of the Region X CRC in Vancouver.

148 members and guests attended including 68 from U.S. Chapters and 80 from the B.C. Chapter.

1965-66

R.P. Perry	President
R.W. Racine	Vice-President
F.A. Seipp	Secretary
R.A. Malcolm	Treasurer
D.M. Brousson	Governor
P.G. Daum	Governor
R.W. Rahme	Governor

1965-66

Region X Chairman, Rod Kirkwood, visited the Chapter and gave the members an outline of Society activities and progress. The Guide and Data Book would henceforth be produced in three volumes (one each year). He also announced the Region X CRC will be in Los Angeles, May 19-21, 1966. (There is no record of who represented the B.C. Chapter at the CRC).

1966-67

R.W. Racine	President
F.A. Seipp	Vice-President
R.A. Malcolm	Secretary
D.M. Brousson	Treasurer
R.W. Rahme	Governor
W.F. Keenan	Governor
D. Strang	Governor
E.I. Mackie	Governor

1966-67

Committee Chairmen for the year were:

Frank Seipp	Meeting Place
Ken Meadows	Programs
Helmut Hooge	Membership
Ernie Prescott	Attendance
Ian Mackie	Special Events
Bert Jackson	Totem and Publicity
Peter Djwa	Research & Technical
Dave Brousson	Scholarships and Education
Fraser Wiggins	Chapter Operations Manual
Jack Bean	Research Fund
Roy Rahme	Research Projects Liaison
Bob McDonald	Roster

Editor's Note: This indicates a very active and ambitious Chapter -
- lots of familiar, still active names.

Region X Chairman, Val Burke, visited the Chapter and spoke on membership promotion and the importance of a strong, active membership.

The Chapter offered a "quantity" discount covering dues and dinner meetings for \$26.00 for the year. At \$5.00 dues and \$3.75 per meal for 8 meetings, cost would be \$35.00.

1966-67 Cont'd

R.H. Ron Strong, 4th year Mechanical Engineering student at U.B.C. was the recipient of the Chapter's Annual Scholarship. (Ron became active in the refrigeration industry and in ASHRAE and was Chapter President in 1989-90).

The Annual fishing Derby at Gambier Island (H.Q. was Bob Wall's Cabin) and the ASHRAE/MCABC Christmas Party at the Villa were great successes.

The Chapter Goal for the ASHRAE Research Fund was \$1,200.00.

The first Student Paper presentation took place at the February meeting.

The Totem was expanded to include more news of members and reports and photographs of Chapter activities.

The Chapter delegation to the Region X CRC in Tucson, Arizona was led by Reg Racine and Frank Seipp.

1967-68

F.A. Seipp	President
R.A. Malcolm	Vice-President
D.M. Brousson	Secretary
R. Rahme	Treasurer
W.F. Keenan	Governor
D. Strang	Governor
E.I. Mackie	Governor

1967-68

Editor's Note: Although there is no record of the Chapter membership, a hint may be found in Ken Meadow's report that the mailing list for the Totem contained 249 names.

The Fishing Derby, Christmas Party, and Golf Tournament provided the valuable opportunity for social contact between members and guests.

Research Fund contributions totalled \$1,470.00 - mainly from local firms.

The Region X CRC was held in Spokane, Washington.

The Chapter presented a two-day symposium "Environment for Modern Living" at the Hotel Vancouver, June 6 & 7, 1968. Dave Leaney, and his well-chosen committee were able to attract knowledgeable presenters. The timely theme dealt with "The environment is the atmosphere in which we live, work, play, and educate ourselves and our children; it should provide us with an indoor climate that is fresh, sparkling, and springlike--not an ocean of pollution".

1968-69

R.A. Malcolm	President
D.M. Brousson	Vice-President
R. Rahme	Secretary
D. Strang	Treasurer
H. Hooqe	Governor
J.Y. Park	Governor
E.I. Mackie	Governor

1968-69

The January meeting was Students Night. It was announced that starting next year, the Chapter's efforts will pay off in that B.C.I.T. students will also participate.

Special Events: Again, the Christmas Party, The Golf Tournament, and the joint B.C. Southern Alberta Fishing Derby were all a great success.

Stanley C. Gale 1954-55, Charter Member, Chapter President 1954-55, died suddenly on July 1, 1969. Stan played a major role in the formation and progress of the Chapter. He left a host of friends throughout Canada and the U.S.A.

1969-70

R.W. Rahme	President
D.G. Strang	Vice-President
A.H. Jackson	Secretary
J.Y. Park	Treasurer
R.B. Gibson	Governor
K.H. Meadow	Governor
D.D. Kisselbach	Governor

1969-70

The September '69 Chapter Meeting was a fun night to celebrate the 75th Anniversary of ASHRAE. This event took place at the Johann Strauss Cabaret. Hot spiced wine was served, followed by a buffet dinner, and dancing 'til 1:00 a.m. The Master of Ceremonies, (who else?) was Red Martin. Dan Thomson spoke very briefly on the activities and accomplishments of ASHRAE over the past 75 years. Special entertainment included Bob Wall and his quartet, The Model T Four (S.P.E.B.S.Q.S.A.).

The ASHRAE Semi-Annual (Winter) Meeting was in San Francisco. It was reported in the Totem that the following B.C. Chapter Members were observed riding the Cable Cars, eating at Fisherman's Wharf and even taking in those exotic night spots: Jack Bean, Dave Leaney, Frank Seipp, Mac Bird, Keith McDonald, Don Strang, Peter Djwa, Dick Perry, Cedric Trueman, Otto Keichel and Jim Park. What this report indicates, whether you believe the charges or not, is that the B.C. Chapter was well represented.

The B.C. Chapter produced and presented a Seminar at the Bayshore Inn on April 29, 1970. The theme was "The Mechanical Contract From Design to User -- Are We Nearer to a Solution?". Chairman Peter Djwa and his committee were able to present the problems and possible solutions for each member of the construction team.

As of April, 1970, B.C. Chapter membership stood at 269. We were tied with Oregon for the fourth largest Chapter in Region X which has 15 chapters. We showed an increase of 11% over 1969, when we were in 6th place.

1970-71

D.G. Strang	President
A.H. Jackson	Vice-President
J.Y. Park	Secretary
K.H. Meadow	Treasurer
R.B. Gibson	Governor
D.D. Kisselbach	Governor
E.P. Gravelle	Governor

1970-71

Our Own Dick Perry was elected as Region X's member of the Society Nominating Committee.

Charter member, C.W. (Charlie) Leek became a Life Member. Charlie was a hard working "backbone" of our Chapter for many years.

Claude Douglas, Mac Bird and Dick Perry were among the Chapter members who attended the ASHRAE Semi-Annual (Winter) Meeting in Philadelphia, Pennsylvania.

Students Night involving U.B.C. and B.C.I.T. students was a feature of our April Meeting.

The Christmas party, Golf Tournament and Fishing Derby were well attended and continued to be self-supporting.

1971-72

A.H. Jackson	President
J.Y. Park	Vice-President
K.H. Meadow	Secretary
E.I. Mackie	Treasurer
R.W. Wall	Governor
A. Munts	Governor
D.D. Kissleback	Governor

1971-72

A Theatre Party was a new type of social event for our Chapter. After a marvelous dinner at the Queen Elizabeth Theatre Restaurant, we were **exposed** to "Broadway's Biggest Hit in History" -- HAIR. As President Bert Jackson summed it up, "Hair was an experience! Many of our members, wives, girlfriends, or secretaries freaked out at the show. There were many with mixed feelings -- if they weren't mixed up when they went in, they were when they came out."

In October, the Chapter hosted a meeting of the Society Program Committee. The 14 members enjoyed dinner at the Top of Grouse, a show at the Bayshore, and a late snack in Chinatown. It's possible they conducted some business while they were there.

The ASHRAE/MCABC Annual Christmas party was well attended, and was the usual success, at the Bayshore Inn.

The April Chapter Meeting was held at the Century Inn, Victoria. The purpose of this meeting was to give encouragement to our Vancouver Island members and to promote increased membership in the area. (Air fare was \$20.00 return).

Region X CRC was in Portland, Oregon. The B.C. Chapter was well represented.

Research Fund promotion was an important feature of the year under the capable Chairmanship of Governor Dennis Kisselbach with 9 team captains representing all sectors of our industry. Over 50 volunteers actively participated in this campaign. The target was \$21,800.00 -- that's positive thinking!

1972-73

J.Y. Park	President
K.H. Meadow	Vice-President
E.I. Mackie	Secretary
R.E. Wall	Treasurer
A. Munts	Governor
C. Cox	Governor
S.I. Jacob	Governor

1972-73

Chapter members were pleased to learn of the establishment of ASHRAE Research Canada. This meant that Canadian contributions would remain in Canada and that company contributions would be tax exempt.

The Annual ASHRAE/MCABC Christmas Party at the Gizeh Temple was well attended and a real bargain at \$16.50 per couple.

Other special events included a joint B.C. And Southern Alberta Fishing Derby at Shuswap Lake, and a very enjoyable Golf Tournament.

The March Meeting was held at the Century Inn in Victoria.

Region X CRC was in Phoenix, Arizona.

Chapter membership was 303 as of January plus 32 member applications being processed.

Scholarships were awarded to students at U.B.C. (\$250.00) and B.C.I.T. (\$200.00)

1973-74

K.H. Meadow	President
E.I. Mackie	Vice-President
R.E. Wall	Secretary
D.D. Kisselbach	Treasurer
A.S. Lewis	Governor
W.M. McDonald	Governor
S.I. Jakob	Governor

1973-74

Past president (1961-62), Dave Leaney, brought honour to the chapter by being elected a Fellow of ASHRAE. This award is for outstanding technical accomplishment.

The joint ASHRAE/MCABC Christmas at the Gizeh Temple was well attended and, as usual, a complete success.

A joint meeting with Specification Writers Association of Canada was held in January. 162 members and guests attended including 50, Specification Writers.

The Chapter presented a Symposium "Efficient Use of Energy in Commercial Buildings" at the Bayshore Inn, April 18, 1974.

The 50/50 draw had become a regular feature at our dinner meetings. Each member and guest was requested to contribute \$1.00. When the ticket was drawn, the winner received 50% of the total collected -- the remaining 50% went to ASHRAE Research Canada.

Society President Rod Kirkwood payed a visit to the Chapter in April, 1974.

1974-75

E.I. Mackie	President
R.E. Wall	Vice-President
D.D. Kisselbach	Secretary
A.S. Lewis	Treasurer
M.F. Sterling	Governor
J.I. Stewart	Governor
G.H. Pinch	Governor

1974-75

Region X CRC was held at the Hilton Hawaiian Village. Ian Mackie and Bob Wall were Delegate and Alternate respectively.

Dick Perry was elected to the office of Region X Chairman for a 3 year term commencing in July, 1975.

A Chapter Workshop on Heat Pumps organized by Howie Rice-Jones attracted 70 attendees.

Golf and Fishing again offered that special opportunity for "togetherness".

The Annual Christmas Party was held at the Russian Community Centre.

Chapter dues increased to \$15.00 from \$10.00 and dinner meeting cost rose to \$6.00 from \$5.00.

A.C. (Red) Martin passed away on April 14, 1975. Red was Chapter President in 1957-58, a Charter Member of the Chapter, the General Chairman of the Society Annual Meeting in 1960 in Vancouver and an untiring supporter of ASHRAE and the Chapter for many years.

The Chapter Workshop on "Heat Recovery Systems" was well attended.

1975-76

R.E. Wall	President
D.D. Kisselbach	Vice-President
A.S. Lewis	Secretary
H. Rice-Jones	Treasurer
C.W. Dierks	Governor
J.D. Kern	Governor
R.T. Martin	Governor

1975-76

Chapter membership was 307 members, 18 student members, and 17 applications being processed.

Student Night featured the introduction of 8 students from B.C.I.T. The students received their membership certificates.

The Region X CRC was held in Anaheim, California. Bob Wall was the B.C. Delegate and Dennis Kisselbach was Alternate.

1976-77

D.D. Kisselbach	President
A.S. Lewis	Vice-President
H. Rice-Jones	Secretary
G.H. Pinch	Treasurer
C.W. Dierks	Governor
J.D. Kern	Governor
R.T. Martin	Governor

1976-77

The Region X CRC was held in Vancouver co-incident with the Chapter's 25th anniversary in May, 1977.

Charlie Leek, Chapter Member and Chapter President (1953-54) and a very active and valuable Chapter member passed away.

The Chapter Research Fund goal was \$8,000.00.

As of May, 1977, the Chapter membership was 424, including 75 student members.

The Golf Tournament at Poco Valley Golf and Country Club, The Fishing Derby at Garden Bay, and the Christmas Party at the Russian Community Centre provided the usual "fun and games" for members, spouses and guests.

1977-78

A.S. Lewis	President
H. Rice-Jones	Vice-President
G.H. Pinch	Secretary
R.T. Martin	Treasurer
J.D. Kern	Governor
C.W. Lewis	Governor
G.C. Croft	Governor

1977-78

The Chapter exceeded it's goal of \$8,000.00 for ASHRAE Research by close to \$1,000.00 last year. We were second in Region X behind Puget Sound.

A Chapter Workshop on "Metric Measurement (SI)" was held in April.

Bob Martin became a member of the Region X Energy Conservation Committee.

The Chapter co-sponsored a Seminar on "Energy Conservation and Solar Energy" with AIBC and the Continuing Education Department at U.B.C.

The Region X CRC was in San Francisco with Howie Rice-Jones and George Pinch as B.C. Chapter Delegate and Alternate.

The Golf Tournament and Salmon Derby were well attended.

1978-79

H.G. Rice-Jones	President
G.H. Pinch	President-Elect
R.T. Martin	Vice-President
J.D. Kern	Secretary
G.C. Croft	Treasurer
C.W. Dierks	Governor
R.G. Cawker	Governor
G.J. Lamble	Governor

1978-79

Dick Perry was elected a Fellow of ASHRAE.

The Chapter Christmas Party was a great success at the Engineers Club.

The Golf Tournament at Beach Grove and the Salmon Derby at Pender Harbour were well attended.

Region X CRC in Seattle was attended by Delegate George Pinch and Alternate Bob Martin, and others.

To fall in line with Society procedure, a new executive position was established in the Chapter. President-Elect is an elected position and the holder automatically moves to Chapter President in the following year.

1979-80

G.H. Pinch	President
R.T. Martin	President-Elect
J.D. Kern	Vice-President
W.G. Euverman	Secretary
G.J. Lamble	Treasurer
R.G. Cawker	Governor
C.W. Dierks	Governor
R.A. Norcross	Governor

1979-80

Through Regional re-organization, effective July 1, 1979, the B.C. Chapter became part of the new Region XI which includes Alaska, British Columbia, Inland Empire (Spokane), Manitoba, Northern Alberta (Edmonton), Oregon, Puget Sound (Seattle), Regina, Saskatoon, and, Southern Alberta (Calgary). Although B.C. had been part of Region X for a number of years, this new Region XI became the first and only truly international region.

Chapter member & Past President Dick Perry was elected to the executive position of society Treasurer.

"Energy, Efficiency, and the Bottom Line -- Improving the Competitive Edge in Commercial Buildings". This Seminar was co-sponsored by ASHRAE (B.C.), BOMA, MEMPR, and U.B.C.

Special Events (Social) included the Christmas Party at the Engineers Club, a Skiing Party at Whistler, the Fishing Derby and the Golf Tournament.

Student involvement continued to be an important activity under the able direction of Alex Boome.

The Research Fund goal for the Chapter was set at \$10,600.00.

The Region XI CRC in Anchorage, Alaska was attended by our Chapter Delegate Bob Martin and Alternate Bill Euverman and a group of good followers.

Membership, as of May, 1980, was 389.

1980-81

R.T. Martin	President
J.D. Kern	President-Elect
W.G. Euverman	Vice-President
G.J. Lamble	Secretary
R.G. Cawker	Treasurer
R.A. Norcross	Governor
A.J. Boome	Governor
G.R. Hudson	Governor

1980-81

Life Member Certificates were presented to G.H. Birney, N.M. Foster, D.W. Thomson, and C. VanBoeyen.

Chapter membership was; 419 members, 97 students members, and 12 applications being processed.

The Golf Tournament at Beach Grove Golf Club, and the Fishing Derby at Pender Harbour were well attended.

The Chapter Presented a Two-day Seminar "Energy Efficient Building Operation" at the Sheraton Villa. Attendance was 95 including speakers.

"Marty" McDougal, Region XI Chairman, visited the Chapter.

The Christmas Party, organized by Gary Hudson, was a great success at the Engineers Club.

Our own Dick Perry was elected Society Vice President.

The ASHRAE/BC Hydro Seminar "Potential Uses of Computers for Design, Construction, and Operation of Buildings" attracted 95 attendees.

C.H. (Charlie) Turland received his 50 Year Member Certificate. Charlie has been an active member of ASHVE/ASHRAE in Winnipeg and Vancouver.

1980-81 Cont'd

The Region XI CRC in Edmonton was attended by B.C. Chapter Delegate J.D. Kern, Alternate W.G. Euverman and Committee Chairmen Ralph Robson (Energy), Ian Baxter (Research) and Alex Boome (Education).

Chapter President, Bob Martin was elected to the Council of the Association of Professional Engineers of B.C.

Student Night featured a student technical paper competition. Prizes of \$200.00, \$150.00 and \$100.00 were awarded for the three best papers. Three "consolation" prizes of \$25.00 each were also available.

1981-82

J.D. Kern	President
W.G. Euverman	President-Elect
G.J. Lamble	Vice-President
G.R. Hudson	Secretary
R.G. Cawker	Treasurer
P.D.K. Djwa	Governor
R.L. Robson	Governor
A.J. Boome	Governor

1981-82

The Chapter Energy Management Committee under Chairman Ralph Robson presented a two-day Seminar "Energy and Environment Management in Health Care Facilities - Are They Compatible?". Attendance was 58, and feedback was very positive.

The Chapter Golf Tournament was at Beach Grove Golf and Country Club.

In January, Chapter Membership was 425 members and 90 Student members.

The Region XI CRC in Coeur D'Alene, Idaho was well attended with Bill Euverman (delegate) and John Lamble (alternate) leading our group.

Jim Park was elected Chairman of Region XI, effective July 1982. Jim's election brought honour to the Chapter.

1982-83

W.G. Euverman	President
G.J. Lamble	President-Elect
R.G. Hudson	Vice-President
P.D.K. Djwa	Secretary
R.G. Cawker	Treasurer
I.B. Baxter	Governor
D.E. Carter	Governor
R.L. Robson	Governor

1982-83

This was the year of great accomplishment for our Chapter. Out of five Regional Chairs, B.C. members occupied three. They were, Jim Park - Regional Chairman, Dennis Kiselbach - Research Vice-Chairman, and, Alex Boome - Education Vice-Chairman.

Richard P. (Dick) Perry brought very great honour to the B.C. Chapter on his election to President of ASHRAE. Dick has been an active member of our Chapter for many years. After serving as Chapter Secretary and Vice-President he was elected Chapter President in 1965. Since then he has continued to serve the Chapter by being actively involved in committee work. Dick also served in a number of active capacities in Region XI before being elected Chairman of Region XI for a three year term commencing in 1975.

The Region XI CRC in Regina was attended by John Lamble (delegate), Dale Carter (alternate), and committee chairmen for education, energy, research, and membership.

The Golf Tournament at Beach Grove attracted 68 and the Fishing Derby at Pender Harbour was attended by 41.

The R. P. Perry Award was presented to the B.C. Chapter. The award goes to the best chapter in Region XI.

The Christmas Dinner Dance was held at the Engineers Club.

Chapter membership was 442 at the beginning of the fiscal year.

1983-84

G. J. Lamble	President
R.G. Hudson	President-Elect
P.D.K. Djwa	Vice-President
R.L. Robson	Secretary
D.E. Carter	Treasurer
G.D. White	Governor
R.W. Dean	Governor
A. Trainer	Governor

1983-84

Syd Narvey's Energy Management Committee presented a Seminar "Heating and Air-Conditioning for Small Buildings".

Work commenced on the possibility of forming a Vancouver Island Chapter to better serve the 43 ASHRAE members on the Island.

In response to many request from members, the B.C. Hydro Bulletin, H105A containing design temperature and degree day information was distributed to the members by way of an enclosure in the B.C. Totem.

Students from U.B.C., B.C.I.T., and Malaspina College, presented technical papers to compete for prizes of \$200.00, \$100.00, and \$50.00.

A Fellowship Evening with C.I.B.S. (Chartered Institute Building Services) was a very enjoyable event when Chapter Officers and Committee Chairmen and their spouses met with the U.K. group at the Vancouver Public Aquarium. Thank you, John Lamble!

A joint CRC - Region X and Region XI, was held in Portland, Oregon with Peter Djwa and Dale Carter leading the B.C. Chapter delegation.

1984-85

R.G. Hudson	President
P.D.K. Kjwa	President-Elect
R.L. Robson	Vice-President
D.E. Carter	Secretary
Z. El-Ramly	Treasurer
R.G. White	Governor
R.W. Dean	Governor
D. Trainer	Governor

1984-85

The Chapter purchased a Micro Computer System for the use of U.B.C. students.

The Region XI CRC in Winnipeg was well attended. Peter Djwa (delegate) and Ralph Robson (alternate) led the B.C. Chapter delegation.

The Vancouver Island Chapter held it's Inaugural Meeting in Victoria. Ralph Robson represented the B.C. Chapter and chartered a plane to transport twelve of our members to help the new Chapter celebrate. The B.C. Chapter presented a cheque for \$300.00 to the Vancouver Island Chapter to assist with "start-up" costs.

Pre-meeting technical workshops became a popular addition to Chapter activities.

The next item had a direct effect on the B.C. Chapter membership numbers which were 432 members and 138 students in January 1985.

The Vancouver Island Chapter received it's Charter on April 2, 1985. (This resulted in a loss of approximately 50 area assigned members of the B.C. Chapter). On the positive side, this event was enthusiastically supported by the mainland members.

1985-86

P.D.K. Djwa	President
R.L. Robson	President-Elect
D.E. Carter	Vice-President
Z. El-Ramly	Secretary
R.W. Dean	Treasurer
C.A. Malloy	Governor
R.G. Overland	Governor
R.H. Strong	Governor

1985-86

Chapter President Peter Djwa instructed his executive and committee chairmen to emphasize the technical content for all Chapter activities during his "reign". The responsible people responded. Even our one and only social event, a visit to, and tour of, the Vancouver Public Aquarium had it's technical side - the tour included a behind the scenes look at the very sophisticated pumping, water treatment, and temperature control systems that are required to provide life-support environments for sea creatures from around the world.

The ASHRAE Annual Meeting was held in Honolulu. Our Chapter was represented by Dick Perry, Jim Park, Alex Boome, Dennis Kiselbach, and Ian Mackie.

The Chapter Golf Tournament at Carnoustie and the Fishing Derby at Pender harbour were well attended.

Regional XI Chairman, Det Goepfert, and Region Vice-Chairman Lew Seagraves (membership) visited the Chapter in March.

As of April, we had 382 members and 116 student members.

The B.C.I.T. Student Branch received it's Charter on May 5th. George Pinch (Education Chairman) and Ron Graham (Student Advisor) are to be congratulated.

Three of our Chapter members were awarded 1st place Regional, and 2nd place International ASHRAE Energy Awards. They were Jack Meredith, Ken Sinclair, and Ian Rowland for Robson Square Complex.

1985-86 Cont'd

Cornelius (Cornie) VanBoeyen, Charter Member, past Chapter President (1955-56), and a very active Chapter member for many years, passed away on April 22, 1986 at age 79.

Region XI Chapters Regional Committee (CRC)
Vancouver, B.C. May 7 - 10, 1986

The hosting of the CRC was the major event of the year. Held at the Holiday Inn Harbourside, the program featured the best Technical Sessions, Workshops, Business Sessions and Social Events. There was golf, salmon fishing, guided tours of the city, and an EXPO Ball and Banquet.

The B.C. Chapter delegation was led by Ralph Robson (Delegate) and Dale Carter (Alternate).

Some even said it was, overall, a great success!

General Chairman, Gary Hudson and his well selected committee are to be congratulated.

Special visitors included Society's Executive Director-Frank Coda, Treasurer-Lou Flagg, President-Elect-Fred Kohloss, and Region XI Chairman-Det Goepfert.

1986-87

R.L. Robson	President
D.E. Carter	President-Elect
Z. El-Ramly	Vice-President
R.W. Dean	Secretary
E.S. Chessor	Treasurer
C.S. Malloy	Governor
R.G. Overland	Governor
R.H. Strong	Governor

1986-87

The Board of Governors passed a motion to ban smoking at all B.O.G. and Chapter meetings, including seminars and workshops.

The Chapter presented a full-day Seminar "Smoking Policy in Vancouver - Implications and Impacts", to support the City of Vancouver Health By-Law amendments dealing with sidestream smoke in buildings open to the public and in the workplace.

D.W. (Dan) Thomson, Charter Member, past Chapter President, and one of the main "building blocks" of the Chapter, passed away on September 10, 1986.

William F. (Bill) Chapman, ASHRAE Director-at-large, visited the Chapter and spoke on Benefits of Membership and the Presidential Theme "Developing Our Human Resources".

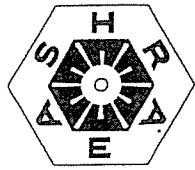
The Chapter joined hands with MCABC and CIPH for a major industry-wide Christmas Dinner-Dance at the Coach House. This event was enjoyed by 189 people.

Chapter member Ken McMillan received his Life Member Certificate.

The Chapter co-sponsored (with AIBC and BCEMTF) a Symposium "Building Performance and Indoor Environmental Quality".

The Chapter Golf Tournament was at Meadow Gardens Golf Club. The new clubhouse provided great food, and nearly every one of the 80 hackers, sandbaggers and the few golfers received prizes.

Technical subjects again dominated the Chapter meetings throughout the year.



American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Recognizes

the contributions to the Society
and to the process of technological advancement
for the public good
by the members of the

British Columbia Chapter

on the occasion of the
35th Anniversary
of the chapter's chartering.

May 13, 1987

Fredman A. Hohlross
President



1986-87 Cont'd

The Chapter co-sponsored a Symposium "Indoor Air Quality - Professional Responsibilities & Liabilities" with AIBC and BCEMTF.

IMPORTANT EVENT

May 13, 1987 was an "occasion"! We celebrated Charter Member's Night, Past President's Night, The Chapter's Annual Meeting, and, most important of all, the British Columbia Chapter's thirty-fifth (35th) Anniversary.

Distinguished guests were introduced by President Ralph Robson.

Rod Kirkwood	- Society Past-President
Det Goepfert	- Region XI Chairman
Cedric Trueman	- President, Vancouver Island Chapter
Ed and Betty Phillips	- Guest Speaker
Bob & Molly Hole	- Charter Member, Past-Chapter President
Isle Robson	- The driving force behind Ralph
Dick Perry	- Society President 1983-84, Chapter President 64-65
Dale and Joy Carter	- Incoming Chapter President.

Other distinguished guest included:

Charter Members; Bob Malcolm, Sid Welsh and Jean, Fraser Wiggins, and Bob Hole and Molly.

Past Presidents: Sid Welsh, Elliot Smith, Fraser Wiggins, Bob Hole, Jack Bean, Dick Perry, Bob Malcolm, Don Strang, Dennis Kiselbach, George Pinch, Don Kern, Bill Euverman, John Lamble, Gary Hudson and Peter Djwa.

Entertainment after dinner was provided by Choy and Buddy from the Phillipines - a lively guitar and vocal presentation.

Ed Phillips, former ASHRAE member and former President of Trane Canada, gave a colorful talk "Soft Option Syndrome" (taking the easy way out).

To top off the evening, Det Goepfert installed the Chapter Officers for the coming year (1987-88), and Ralph Robson presented the Charter and Gavel to President Dale Carter.

We have now officially come to the end of the first thirty-five exciting British Columbia Chapter years.

Acknowledgments

K.H. (Ken) Meadow, and, R.G. (Bob) Cawker

These two gentlemen were British Columbia Chapter Historians in previous years, and they provided most of the archival material that made production of this History possible.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1987-1988

Elected Board

Chapter President
President-Elect
Vice-President
Treasurer
Secretary
Past President
Governor
Governor
Governor

Dale E. Carter
Zak El-Ramly
Roger W. Dean
Alex J. Boome
Ronald H. Strong
Ralph L. Robson
Chris S. Malloy
Robert G. Overland
David A. Patterson

Committee Chairs

Attendance
CRC
Education
Energy / Technical
Gov't Affairs
Membership Promotion
Newsletter
Programs
Publicity
Refrigeration
Research Promotion
Roster / Mailing List
Special Events

Walter D. Prescott
Ralph L. Robson
Elia M. Sterling
Toby K. Lau
George H. Pinch
Gary E. Way
Robert G. Overland
Roger W. Dean
Peter D.K. Djwa
Ronald H. Strong
Richard P. Perry
Gary E. Way
Peter J. Gibbs

Prepared: April 1998

Gary Way, Historian

Year In Review - Highlights

We lost 2 influential members of our Chapter this year. **Jim Park**, a past Chapter President and Regional Chairman, passed away in October. Jim was active in ASHRAE for many years, and was a Director of ASHRAE Research Canada at the time of his death. Our other loss was **Charlie Turland**, a Charter Member of our Chapter and a 50+ year member of ASHRAE. Charlie was 90 when he passed away in February.

Our meetings were mainly held at Sui Lang Kung Seafood Restaurant, in Vancouver. Our topics included a discussion on professional liabilities, office buildings of the future, co-generation, lighting concepts vs HVAC, and the Luge track for the Calgary Olympics. (**Bob Overland** wondered how they get the Zamboni up the luge run.) We only had one tour this year, and that was to the Triumph Building at UBC.

As computers started to play an increasing role in our daily business lives, we sponsored a 1 day seminar on Computer Aided Building Design, chaired by **Toby Lau** who was our Energy & Technical Chairman.

The CRC as held in Calgary this year.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1988-1989

Elected Board

Chapter President
President-Elect
Vice-President
Treasurer
Secretary
Past President
Governor
Governor
Governor

Zak El-Ramly
Ronald H. Strong
Alex J. Boome
Elia M. Sterling
David A. Patterson
Dale E. Carter
Toby K. Lau
Chris S. Malloy
Gary E. Way

Committee Chairs

Attendance
CRC
Education
Energy / Technical
Gov't Affairs
Membership Promotion
Newsletter
Programs
Publicity
Refrigeration
Research Promotion
Roster / Mailing List
Special Events

Lorna G. Cloutier
Dale E. Carter
Ralph L. Robson
Toby K. Lau
George H. Pinch
Gary E. Way
Robert G. Overland
Alex J. Boome
Walter D. Prescott
Ronald H. Strong
Richard P. Perry
Gary E. Way
Dan M. Julien

Prepared: April 1998
Gary Way, Historian

Year In Review - Highlights

The year started with a very well attended meeting at the Vancouver Trade & Convention Centre. Our speaker was Rick Hulbert, who spoke on the Pacific Place project. This meeting was probably the largest turnout that we have ever had for an ASHRAE meeting, with nearly 250 people in attendance.

In our March meeting, we learned about BC Hydro's new Power Smart program, a \$225 million program to encourage customers to use electricity wisely. (And it is still going strong.) Other meetings consisted of air quality in Alberta schools, the Boundary Road development, CFC issues (it was new back then), the Vancouver Art Gallery. Our site tour was at the new Greater Vancouver Incinerator, in Burnaby.

The CRC was held in Seattle this year, and included a tour of the Boeing plant.

The big event for the Chapter was the Society Annual Meeting, which was held in June at the Trade & Convention Centre. The event was a resounding success, and the efforts of many Chapter volunteers made the guests and Society officers feel very welcome. We received many congratulatory comments for a job well done. A special thanks should go to Chairman **Dale Carter**, with **Gary Hudson** and **Dennis Kiselbach** as Vice-Chairmen.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1989-1990

Elected Board

Chapter President	Ronald H. Strong
President-Elect	Alex J. Boome
Vice-President	Elia M. Sterling
Treasurer	Chris S. Malloy
Secretary	Gary E. Way
Past President	Zak El-Ramly
Governor	Lorna G. Cloutier
Governor	Toby K. Lau
Governor	Ken W. Newbert

Committee Chairs

Attendance	Lorna G. Cloutier
CRC	Alex J. Boome
Education	Peter T. Sung
Energy / Technical	Toby K. Lau
Gov't Affairs	James N. Keen
Membership Promotion	Gary E. Way
Newsletter	Godfrey H.J. Nash
Programs	Elia M. Sterling
Publicity	Ken W. Newbert
Refrigeration	Ronald H. Strong
Research Promotion	George H. Pinch
Roster / Mailing List	Gary E. Way
Special Events	Gary R. Hudson

Prepared: April 1998

Gary Way, Historian

Year In Review - Highlights

After 5 years of publishing a very successful Chapter newsletter, the Totem, Bob Overland decided to step down as editor. Bob had received the J. Donald Kroeker Award as one of the top newsletters in the Region, for each of those 5 years. Bob was succeeded by (future President) Godfrey Nash.

Ian Mackie was promoted to the grade of Fellow.

The Chapter and the refrigeration industry lost a well respected member, Dixon Palmer, in April 1990, just shy of his 91st birthday.

Most of the meetings were held at O'Doul's Hotel, however, we did have a special meeting and a couple of field trips. Our special meeting was at the Vancouver Trade & Convention Centre, where we learned about the new Coal Harbour Development Waterfront Project, by Marathon Realty. This was based upon a very successful similar meeting the previous year. Our tours consisted of another well attended brewery, this time Granville Island Brewery, and a spouse's night that consisted of a Murder Mystery Dinner at Brock House Restaurant. (Who would believe that Toby Lau was the villain?)

Our meeting place changed to O'Doul's Hotel on Robson St., and this year consisted of topics such as; commissioning buildings, CFC issues, earth energy heat pumps (now referred to as ground source heat pumps?), and residential ventilation. We also had our students present talks on various topics on Student Night.

We held 2 successful seminars, one on Seismic Restraints, and the other one on Firestopping and Smoke Control. Total attendance for the 2 seminars was over 400 people.

The CRC was held in Hawaii, in May 1990. This was a joint CRC between Region X and XI, a tradition which is planned for every 5 years. Our Chapter was well represented with 9 members attending on either a Chapter or Regional level.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1990-1991

Elected Board

Chapter President	Alex J. Boome
President-Elect	Elia M. Sterling
Vice-President	Chris S. Malloy
Treasurer	Gary E. Way
Secretary	Toby K. Lau
Past President	Ronald H. Strong
Governor	Lorna G. Cloutier
Governor	Godfrey H.J. Nash
Governor	Kam H. Hon

Committee Chairs

Attendance	Lorna G. Cloutier
CRC	Elia M. Sterling
Education	Peter T. Sung
Energy / Technical	Toby K. Lau
Gov't Affairs	James N. Keen
Historian	Ralph L. Robson
Membership Promotion	Gary E. Way
Newsletter	Godfrey H.J. Nash
Programs	Chris S. Malloy
Publicity	Godfrey H.J. Nash
Refrigeration	Ronald H. Strong
Research Promotion	Chris S. Malloy
Roster / Mailing List	Gary E. Way
Special Events	James W. Land

Prepared: April 1998

Gary Way, Historian

Year In Review - Highlights

A dreaded new acronym entered the Canadian vocabulary in 1990, namely 'GST'. Our September meeting featured a speaker from Revenue Canada, to tell us what impact it will have on our industry, and for the average HVAC person. This was the year of taxes, as we also had another meeting with a speaker from the Fraser Institute telling us where our money goes.

Our technical evenings featured a tour of Molson Brewery, which, as expected drew large turnout (something about brewery tours). We also had speakers on ventilation, VAV systems, the B.C. Government's energy policy, earthquake preparedness, and BC Hydro's Power Smart program. Our Spouse's Night was held at the Prow Restaurant and Imax Theater. Region XI Chairman **Don Holte** visited the Chapter in April. This was also the month that we toured a brewery (any coincidence?).

Along with the Electrical Contractors Ass'n of BC, we co-sponsored a seminar on seismic restrain design guidelines for electrical systems, which set the stage for our own seismic seminar on mechanical systems (see 1992-93). We did hold our own seminar on "Managing a Successful Design Practice in the 90's". This seminar addressed some of the things we faced as we entered the computer age.

The CRC was held in Saskatoon. Our Chapter was well represented, not only at the Chapter level, but also at the Regional level. **Dale Carter** (Membership), **Ralph Robson** (Energy & Technical), and **Ron Strong** (Refrigeration), were all serving as regional Vice-Chairmen at the CRC.

We lost 2 members who passed away too quickly. **Frank Hotti**, at age 42, and **Ken McConnell** at age 72. Ken was the original editor of the Chapter newsletter, and was active in the Chapter for many years.

President **Alex Boome**'s last column in the Totem made a (retrospective) interesting comment about the speed of computers. He compared his new 386 to his old AT, which cut the speed of drawing a valve from 29.5 seconds to 2.5 seconds. Today's computers draw it before you can start timing it.

This year ended with our usual Golf Tournament as well as a dinner cruise aboard the Malibu Princess.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1991-1992

Elected Board

Chapter President	Elia M. Sterling
President-Elect	Chris S. Malloy
Vice-President	Gary E. Way
Treasurer	Toby K. Lau
Secretary	Godfrey H.J. Nash
Past President	Alex J. Boome
Governor	Lorna G. Cloutier
Governor	G. Bruce Munro
Governor	Peter T. Sung

Committee Chairs

Attendance	Lorna G. Cloutier
CRC Delegate	Chris S. Malloy
CRC Alternate	Gary E. Way
Education	Robert N. Flipse
Energy / Technical	Gifford Jung
Gov't Affairs	James N. Keen
Historian	Ralph L. Robson
Membership Promotion	Peter T. Sung
Newsletter	Michael F. Berton
Programs	Gary E. Way
Publicity	Godfrey H.J. Nash
Refrigeration	L.A. (Tim) Hutchison
Research Promotion	Chris S. Malloy
Roster / Mailing List	Peter T. Sung
Special Events	James W. Land

Prepared: April 1998

Gary Way, Historian

Year In Review - Highlights

This year seemed to mark the start of many discussions and changes in the use of refrigerants and refrigeration technology. The CFC issue came to the forefront, and the Provincial and Federal governments brought forward many rules and regulations on the use and disposal of new and existing refrigerants. In June we held a 1 day seminar on CFC alternatives. (This was originally scheduled as a dinner meeting topic, but it grew so large and important that we decided to change it to a seminar).

This year marked the Chapter's 40th anniversary, and we were honoured to have a visit by Society President-Elect **Dick Charles** and Region XI Chairman **Ralph Mattison** to our February anniversary meeting. Past President **Fraser Wiggins** gave a talk about the history of the Chapter.

Our meeting topics included the Vancouver Island natural gas pipeline, the C-2000 program, cogeneration, and insulation. We also had a presentation on fuel cells from Ballard Power (oh, if we had bought shares then), and learned about the new Boiler & Pressure Vessel act. A tour of the Forintek building fell through, however we did have a well attended tour of the Dynapro Technology building.

A special social event was held at Maz & Me's dinner theater, which provided lots of food and laughter.

The City of Vancouver introduced a new commercial building energy bylaw, based on the ASHRAE/IES 90.1 standard. This prompted a large demand on copies of the manual and software, so the Chapter ordered a large quantity (at discounted prices) and sold them to those in the design community. The bylaw issue also prompted several seminars on the use and understanding of ASHRAE 90.1; the Chapter being one of them.

The CRC was held in Victoria, and being so close we were well represented and given a gracious welcome by our young and successful 'sister' Chapter.

The February Totem newsletter reported that over 37 Chapter members were seen at the ASHRAE Winter Meeting in Anaheim CA. This must have been a record turnout for the Chapter.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1992-1993

Elected Board

Chapter President	Chris S. Malloy
President-Elect	Gary E. Way
Vice-President	Toby K. Lau
Treasurer	Godfrey H.J. Nash
Secretary	Peter T. Sung
Past President	Elia M. Sterling
Governor	Robert N. Flipse
Governor	James W. Land
Governor	Paul E. Marmion
Governor	G. Bruce Munro

Committee Chairs

Attendance	Trevor J. Allen
CRC Delegate	Gary E. Way
CRC Alternate	Toby K. Lau
Education	Robert N. Flipse
Energy / Technical	David A. Patterson
Gov't Affairs	James N. Keen
Historian	Ralph L. Robson
Membership Promotion	Jonathan A. French
Newsletter	Michael F. Berton
Programs	Toby K. Lau
Publicity	Godfrey H.J. Nash
Refrigeration	L.A. (Tim) Hutchison
Research Promotion	Chris S. Malloy
Roster / Mailing List	Jonathan A. French
Special Events	James W. Land

Prepared: April 1998

Gary Way, Historian

Year In Review - Highlights

The September meeting featured a talk on the proposed new Library Square Complex for the City of Vancouver. This was a competition between various architectural and engineering firms. (See updates on this topic in later years). Other meetings included a joint meeting with ASPE on emergency preparedness for the home and office, a panel discussion on CFC issues, a tour of Vancouver General Hospital Laurel Pavilion (and their huge boiler rooms), and a meeting on the proposed new Canadian Energy Code. Our spouse's night was held at the Vancouver Planetarium. Meetings were generally held at O'Doul's Hotel, except for tours and the ASPE joint meeting which was held at the Biltmore.

We held a very successful seminar on the Guidelines for Restraint of Mechanical Systems, co-sponsored by SMACNA-BC and MCA-BC. 88 people attended the 1 day seminar, and we were asked to repeat it for the Vancouver Island Chapter.

Region XI Chairman, **Ralph Mattison** visited our Chapter and spoke about the upcoming ASHRAE Centennial.

The CRC was held in Anchorage this year (complete with an earthquake). Our Chapter was well represented, and we put forward 3 motions as well as some names for Regional Awards, and won some awards for our Chapter.

The seed was planted this year for the BC Chapter Trade Show, initiated by a request by HRAI to jointly co-host this event. (See subsequent years).



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1993-1994

Elected Board

Chapter President	Gary E. Way
President-Elect	Toby K. Lau
Vice-President	Godfrey H.J. Nash
Treasurer	G. Bruce Munro
Secretary	Peter T. Sung
Past President	Chris S. Malloy
Governor	Michael F. Berton
Governor	Robert N. Flipse
Governor	L.A. (Tim) Hutchison
Governor	John Martin

Committee Chairs

Attendance	Trevor J. Allen
CRC Delegate	Gary E. Way
CRC Alternate	Godfrey H.J. Nash
Education	William M. Tucker
Government Activities	James N. Keen
Historian	Ralph L. Robson
Membership Promotion	Jonathan A. French
Newsletter	Michael F. Berton
Programs	Godfrey H.J. Nash
Publicity	Godfrey H.J. Nash
Refrigeration	L.A. (Tim) Hutchison
Research Promotion	Chris S. Malloy
Roster / Mailing List	Jonathan A. French
Special Events	Michael A. Fahlman
T.E.G.A.	Rene Abou-Rached

Prepared: April 1998

Gary Way, Historian

Year In Review - Highlights

Our Totem Newsletter got a new facelift this year, thanks to our editor **Mike Berton**. We still maintained the totem pole style logo, but we stylized it and made it more "90's" looking. Unfortunately Mike quit his position as editor, because he left the HVAC industry for the world of Finance. **Graham Henderson** took over as editor.

Controversy reigned heavily over several books and written articles that stated that the CFC issue was a hoax, promoted by self interest groups who had a lot to gain from the sale and development of new refrigerants. The issue seems to have died a natural death, as science has proven the harmful effects of CFC's.

Heart problems seemed to plague the Chapter, as 2 members suffered mild heart attacks, and another 2 had bypass surgery. This explains why **Gary Way** was the CRC Delegate, instead of Toby Lau.

We had 12 members who were busy at Society level, on task groups, committees, etc. Eight of these members are past Chapter presidents, showing that volunteers often continue working, even behind the scenes.

This was the year that we started the task of trying to update our Chapter Bylaws, as they were long overdue for update. The process ended up taking nearly 3 years to complete.

While we often start the year with a tour, this year we started with a panel discussion, based on the question "Are we building up to a standard or Down to a Price?" This created a lot of controversy and generated lots of interest and discussion, even if the answer was never truly resolved. Some of our topics included CFC issue updates, B.C. Energy policy, Infiltration, Geothermal Heating and Cooling, and University of Northern British Columbia. Our technical tour was at the new B.C. Hydro Building in Burnaby, and our spouse's night consisted of a tour of Science World, and an Imax show. At this meeting we had 2 special guests from Region XI; Chairman **Ralph Mattison**, and Vice Chairman - Refrigeration, **Dave Gardner**.

We held 6 technical workshops before the meetings.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1994-1995

Elected Board

Chapter President	Toby K. Lau
President-Elect	Godfrey H.J. Nash
Vice-President	Peter T. Sung
Treasurer	Robert N. Flipse
Secretary	G. Bruce Munro
Past President	Gary E. Way
Governor	Edward S. Chessor
Governor	Ralph B. Gibson
Governor	L.A. (Tim) Hutchison
Governor	William M. Tucker

Committee Chairs

Attendance	Trevor J. Allen
Centennial Activity	Gary E. Way
CRC Delegate	Godfrey H.J. Nash
CRC Alternate	Peter T. Sung
Education	William M. Tucker
Government Activities	Peter K. Honke
Historian	Ralph L. Robson
Membership Promotion	Gary E. Way
Newsletter	Graham N. Henderson
Programs	Peter T. Sung
Publicity	Wilson K.C. Cheng
Refrigeration	L.A. (Tim) Hutchison
Research Promotion	Chris S. Malloy
Roster / Mailing List	Gary E. Way
Special Events	Peter T. Sung
Technical / Education	Tamara Badkerhanian

Prepared: April 1998

Gary Way, Historian

Year In Review - Highlights

This year marked the first bi-annual ASHRAE Trade Show, at the Italian Cultural Centre. This was well attended and a very successful event, thanks mainly to the devotion of the Trade Show Committee chaired by **Tim Hutchison**. The event will be staged on alternate years, between the BC and Vancouver Island Chapters.

Our meetings started with a tour at the Central Heat Distribution building. Other meetings featured a talk on the new Vancouver International Airport, the history of refrigeration, the future of CAD, and the Commercial Arbitration Centre. We also learned about new changes to the Boiler & Pressure Vessel Act, and proposed changes to ASHRAE Standard 62, Ventilation & IAQ. We had several workshops throughout the year, including air system design, plate & frame heat exchangers, radiant hot water heating, as well as 4 workshops at the Trade Show. Our Spouse's Night featured a dinner and show at a performance of "Forever Plaid".

We held another seminar on Seismic Restraints in October, which was well attended by over 80 people.

1994-95 marked the 100th Anniversary of ASHRAE and its predecessors organizations. Our May meeting featured a display of memorabilia for the Chapter with some plans, books, and design aids from days gone by. Our Chapter Roster got a new make-over this year, with a gold coloured cover in honour of the centennial.

We started faxing the membership prior to meeting nights, with a form for them to return to the attendance chairman. This has turned out to be a very easy process, and seems to have good acceptance by all.

The CRC was held in San Jose, and was a joint one with Region X and XI.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1995-1996

Elected Board

Chapter President	Godfrey H.J. Nash
President-Elect	Peter T. Sung
Vice-President	G. Bruce Munro
Treasurer	L.A. (Tim) Hutchison
Secretary	Robert N. Flipse
Past President	Toby K. Lau
Governor	Edward S. Chessor
Governor	Ralph B. Gibson
Governor	Brian A. O'Donnell
Governor	William M. Tucker

Committee Chairs

Attendance	Trevor J. Allen
Centennial Activity	Gary E. Way
CRC Delegate	Peter T. Sung
CRC Alternate	G. Bruce Munro
Chapter Section	Edward S. Chessor
Historian	Ralph L. Robson
Membership Promotion	Gary E. Way
National Engineer's Week	Brian A. O'Donnell
Newsletter	Graham N. Henderson
Programs	G. Bruce Munro
Publicity	Brian A. O'Donnell
Refrigeration	L.A. (Tim) Hutchison
Research Promotion	Toby K. Lau
Roster / Mailing List	Gary E. Way
Special Events	John R. Clancy
Student Activities	Rod Yeoh
Technical / Education	William M. Tucker

Prepared: April 1998

Gary Way, Historian

Year In Review - Highlights

The year started on a very sad note with the passing of **J.D. (Don) Kern**, in July. Don was a past president of the Chapter, and very active and supportive of ASHRAE over the many years that he was a member. Don became a Life Member and a Fellow of ASHRAE. (Editors note: I had the pleasure of starting my career by working for Don, and joined ASHRAE with Don's encouragement). **Jack Bean** wrote a very nice tribute to Don in the September Totem.

Our monthly meetings in had 2 grand tours of the city's 2 newest attractions, the Vancouver Library, and GM Place. We relocated our regular meeting place to the Italian Cultural Centre, in Vancouver. It appears that this is a convenient location, has plenty of free parking, and the rates are reasonable. Other meeting topics included presentations on thermal ice storage at Northlands Park, GVRD wastewater & supply water treatment, cogeneration, and an update on the B.C. Energy Code. Spouse's Night included a trip up Grouse Mountain for a dinner and show.

Past Society and Chapter President, **Richard Perry** was honoured with the Andrew T. Boggs Service Award at the summer meeting, for his outstanding contribution to the Society.

The Chapter co-sponsored 2 seminars, one on Ground Source Heat Pumps with BC Hydro, and another on Building Performance with AEE.

The CRC was held on Couer d'Laine Idaho.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1996-1997

Elected Board

Chapter President	Peter T. Sung
President-Elect	G. Bruce Munro
Vice-President	Robert N. Flipse
Treasurer	Brian A. O'Donnell
Secretary	L.A. (Tim) Hutchison
Past President	Godfrey H.J. Nash
Governor	Edward S. Chessor
Governor	Rod Yeoh
Governor	Dan E. MacKay

Committee Chairs

Attendance	Trevor J. Allen
CRC Delegate	G. Bruce Munro
CRC Alternate	Robert N. Flipse
Chapter Section	Edward S. Chessor
Historian	Edward S. Chessor
Membership Promotion	Gary E. Way
National Engineer's Week	Rod Yeoh
Newsletter	John E. Jutras
Programs	Robert N. Flipse
Publicity	John E. Jutras
Refrigeration	Eric C. Bradley
Research Promotion	Godfrey H.J. Nash
Roster / Mailing List	Gary E. Way
Special Events	Norm Grusnick
Student Activities	Rod Yeoh
Technical / Education	Dan E. MacKay

Year In Review - Highlights

Prepared: April 1998

Gary Way, Historian

After 3 long years, we finally received approval of the update to the Chapter Bylaws. This had been a seesaw 'battle' between the Chapter and Society over some of the wording in our bylaws which we wanted revised. In the end, a compromise was reached, however we did provide Society with some food for thought for other Chapters.

April marked our second annual Trade Show at the Italian Cultural Centre. This was even bigger than the first time, with more exhibitors and more attendees. However the lack of attendance from the design community was still a concern, and one that will create much discussion before the next trade show.

The Italian Cultural Centre was home to all our meetings, except for the field trips. Our meeting topics included Transition to Alternate Refrigerants, Internet and ASHRAE, Seismic Update - 1995 Building Code. We had 3 tours this year, to the new Vancouver International Airport, to BCIT for Student Night, and to BC Hothouse for Refrigeration Night. We also had a meeting in conjunction with the Trade Show, and our very special guest speaker was Society President-Elect, **Don Holte**.

Our efforts to create a Section for the members in the Interior / Okanagan area of B.C. were realized when we the Southern Interior Section held its inaugural meeting in September. 12 members were at the inaugural meeting, as well as several Chapter Members who were on hand to welcome the new Section. **Walter Prescott** was the inaugural chairman.

Blair McCarry received the ASHRAE Symposium Paper award from Society, for his paper on Underfloor Air Distribution Systems.

The CRC was held in Regina.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1997-1998

Elected Board

Chapter President	G. Bruce Munro
President-Elect	Robert N. Flipse
Vice-President	L.A. (Tim) Hutchison
Treasurer	Rod Yeoh
Secretary	Brian A. O'Donnell
Past President	Peter T. Sung
Governor	Eric C. Bradley
Governor	Edward S. Chessor
Governor	Dan E. MacKay

Committee Chairs

Attendance	John R. Clancy
CRC Delegate	Robert N. Flipse
CRC Alternate	Eric C. Bradley
Chapter Section	Edward S. Chessor
Government Activities	Toby K. Lau
Historian	Gary E. Way
Membership Promotion	Kim A. LaBreche
National Engineer's Week	Lian S. Gu
Newsletter	John E. Jutras
Programs	L.A. (Tim) Hutchison
Publicity	John E. Jutras
Refrigeration	Eric C. Bradley
Research Promotion	Douglas K. Spratt
Roster / Mailing List	Kim A. LaBreche
Special Events	Peter T. Sung
Student Activities	Lian S. Gu
Technical / Education	Dan E. MacKay

Prepared: April 1998

Gary Way, Historian

Year In Review - Highlights

Bob Cooper received his 50 year membership certificate. (It was actually about 2 years late). Bob is still active in the industry, and has written several books on HVAC applications. Editor's Note: I had the pleasure of interviewing Bob for an article in the Totem a couple of years ago. He tells some interesting stories, such as the fact that thermostatic control was just being introduced for residential heating when Bob entered the business.

Several members achieved Life Member status. As the Chapter gets older so do many of it's members. Last year the average age in our Chapter was approx. 49, with an average membership service of 14.6 years.

Our meetings were held at our home base of the Italian Cultural Centre, except for the 3 tours. Home based meetings consisted of talks on Commissioning, Whole Building Design, Green Building Challenge and the new Energy Code. Our tours consisted of a visit to the Canadian Airlines Operation Centre, Mario's Gellati Ice Cream Plant (yes for Refrigeration Night), and a tour of Granville Island Brewery (for Student's Night). Our spouse's night consisted of an evening of wine tasting and dinner. Those that attended enjoyed the evening, however the turnout was disappointing.

Two BC consulting design firms won recognition and awards from Society for their design work on local buildings. Keen Engineering was recognized for the Vancouver Public Library, and Prism Engineering for energy upgrades at the Canadian Airlines Operation Centre. Both of these projects were part of Chapter tours in recent years.

The CRC was held in Portland Oregon.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1998-1999

Elected Board

Chapter President	Robert N. Flipse
President-Elect	L.A. (Tim) Hutchison
Vice-President	Brian A. O'Donnell
Treasurer	Eric C. Bradley
Secretary	Kim A. LaBreche
Past President	G. Bruce Munro
Governor	Rod Yeoh
Governor	Edward S. Chessor
Governor	Norm Grusnick

Committee Chairs

Attendance	John R. Clancy
Bylaws	Gary E. Way
CRC Delegate	L.A. (Tim) Hutchison
CRC Alternate	Brian A. O'Donnell
Chapter Section	Edward S. Chessor
Government Activities	Toby K. Lau
Historian	Gary E. Way
Honours & Awards	Edward S. Chessor
Membership Promotion	Kim A. LaBreche
National Engineer's Week	Lian S. Gu
Newsletter	Peter Horwood
Programs	Brian A. O'Donnell
Publicity	Peter Horwood
Refrigeration	Eric C. Bradley
Research Promotion	Robert N. Flipse
Roster / Mailing List	Kim A. LaBreche
Special Events	Peter T. Sung
Student Activities	Lian S. Gu
TEGA	Dan E. MacKay
Trade Show	L.A. (Tim) Hutchison

Prepared: April 2005

Gary Way, Historian

Year In Review - Highlights

This year marked another very successful Trade Show at the Italian Cultural Centre. The theme of the show was "Into the Next Millennium". Trade Show organizer and Chairman **Tim Hutchison** put on another sold out show that allowed our members to meet and see the exhibitors' products on display. We also had several technical seminars available, and incorporated our show with the April monthly meeting. (Guest speaker was Region XI Chairman **Robert McDowell**). Although well attended, and highly praised by both exhibitors and attendees, it was generally felt that there was still not enough participation from the engineering community.

Our meetings included sessions on the "Builders Lien Act", "Centre for Molecular Medicine", "Boiler & Pressure Vessel Regulations", and tours of Burnaby Eight Rinks Complex and the E-COMM Centre. Spouses' Night was a visit to a comedy theatre restaurant.

Membership Chair **Kim LaBreche** set some new standards for the Chapter with 27 new Members and 97 new Student Members.

The CRC was held in Winnipeg. Next year (2000) it will be held in Vancouver, and will be a joint CRC for Regions X and XI.

The annual Golf Tournament was held at Swan-e-Set Golf & Country Club.

We were saddened by the loss of Past President (1966) **Reg Racine**, and **James Keen**, the founder of Keen Engineering. We also lost members **William Niblett** and **Patrick Chan**.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 1999-2000

Elected Board

Chapter President	Tim Hutchison
President-Elect	Brian O'Donnell
Vice-President	Eric Bradley
Treasurer	Kim LaBreche
Secretary	Rod Yeoh
Past President	Robert Flipse
Governor	Edward Chessor
Governor	Norm Grusnick
Governor	Lian Gu

Committee Chairs

Attendance	Trevor Lindwall
CRC Delegate	Brian O'Donnell
CRC Alternate	Eric Bradley
Chapter Section	Edward Chessor
Government Activities	Toby Lau
Historian	Gary Way
Honours & Awards	Edward Chessor
Meeting Notices	Gary Way
Membership Promotion	Kim LaBreche
National Engineer's Week	Lian Gu
Newsletter	Peter Horwood
Programs	Eric Bradley
Publicity	Peter Horwood
Refrigeration	Eric Bradley
Research Promotion	Robert Flipse
Roster / Mailing List	Kim LaBreche
Special Events	Norm Grusnick
Student Activities	Lian Gu

Prepared: April 2005

Gary Way, Historian

Year In Review - Highlights

At our first meeting of the 1999-2000 fiscal year we were honored by a visit from Society Past President **Richard Charles**, who spoke about "Indoor Air Quality" and "Standard 62". Our next meeting we had another Society Past President named Richard as our guest speaker. This was our own **Richard Perry**, who spoke about "Green Buildings - Possible or Impossible?" Other guest speakers and topics included "Thermo Fluid Science" (a tour at UBC), "Life Long Learning - Your Role and APEGBC's Role", a tour of the Dairywold Plant in Burnaby. We also had 2 non-technical talks, including one on "Presentation Techniques", and a golf professional for Spouse's Night.

The golf tournament was held at Swan-e-Set, with a virtual sellout.

The highlight of the year was the 2000 Chapter's Regional Conference, which was held in Vancouver at the Wall Centre Hotel. This was a joint CRC, with both Region X and Region XI participating. Delegates and Committee Chairs from all Chapters in both Regions, plus several Society guests attended the numerous Chapter sessions and social activities. **Rob Flipse** was the General Chair of the CRC. The overall ratings and opinions of Vancouver seemed to indicate that this was one of the best CRC's that many of the delegates had ever attended. A special thanks to all the various volunteers who made the CRC such a success.

We were saddened by the passing of 2 senior members of the Chapter. **William (Bill) Keenan** was a Charter Member of this Chapter, served various capacities on the Board of Governors. Bill taught numerous students the various aspects of HVAC fundamentals and practices (including the writer). We also lost **Donald MacKay**, who was a Member in Calgary and Vancouver. Don was one of the founders of Crowther MacKay & Associates, which later became Reid Crowther & Partners.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 2000-2001

Elected Board

Chapter President	Brian O'Donnell
President-Elect	Eric Bradley
Vice-President	Kim LaBreche
Treasurer	Rod Yeoh
Secretary	Norm Grusnick
Past President	Tim Hutchison
Governor	Edward Chessor
Governor	Peter Horwood
Governor	Trevor Lindwall

Committee Chairs

Attendance	Trevor Lindwall
CRC Delegate	Eric Bradley
CRC Alternate	Kim LaBreche
Chapter Section	Edward Chessor
Government Activities	Toby Lau
Historian	Gary Way
Honours & Awards	Edward Chessor
Meeting Notices	Gary Way
Membership Promotion	Peter Horwood
Newsletter	Aaron Woods
Programs	Kim LaBreche
Publicity	Aaron Woods
Refrigeration	Wayne Borrowman
Research Promotion	Tim Hutchison
Roster / Mailing List	Peter Horwood
Special Events	Norm Grusnick
Student Activities	Laura Creech
TEGA	Norm Grusnick
Trade Show	Tim Hutchison

Prepared: April 2005

Gary Way, Historian

Year In Review - Highlights

This year featured 3 meetings that were site tours, and included visits to the Hotel Vancouver (recent retrofit and controls upgrade), the new BC Gas Operations Centre in Surrey (raised floor plenum heating), and the ever popular tour of Molson's Brewery (refrigeration and tasting).

We were also honored to have back to back visits from Society President **James Wolfe**, followed by a visit from Society President-Elect **Bill Coad**. Bill's visit was to a Chapter meeting that was held in conjunction with another very successful ASHRAE BC Chapter Trade Show, which was once again chaired by **Tim Hutchison**.

Our Spouse's Night was a dinner theatre outing, and was unfortunately, not very well attended.

Other meetings included a review of the CBIP (Gov't of Canada) commercial energy program, and a meeting about "The Future of HVAC". (As long as there is energy, there will be HVAC).

The Chapter Historian, **Gary Way**, wrote an article about the history of the Chapter, which was published in the Totem (Chapter Newsletter). (It is also posted on the Chapter website). We also tried publishing some mini-history articles in the Totem, and we published about 3 such articles. However gathering the information from various companies was like trying to pluck hen's teeth, so the idea was abandoned. It may be worth trying again some day.

On a sad note, we lost one of our industry's leaders in June 2000. **Dave Leaney** passed away after battling cancer for a number of years. Dave was a Charter Member and served as President in 1961, and earned the distinction of the grade of Fellow. Dave will always be remembered for his work in the industry and his numerous contributions to ASHRAE.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 2001-2002

Elected Board

Chapter President	Eric Bradley
President-Elect	Kim LaBreche
Vice-President	Rod Yeoh
Treasurer	Norm Grusnick
Secretary	Peter Horwood
Past President	Brian O'Donnell
Governor	Wayne Borrowman
Governor	Trevor Lindwall
Governor	Bob Mackie

Committee Chairs

Attendance	Charlie Sabeau
CRC Delegate	Kim LaBreche
CRC Alternate	Rod Yeoh
Chapter Section	Edward Chessor
Government Activities	Toby Lau
Historian	Gary Way
Honours & Awards	Rob Flipse
Meeting Notices	Gary Way
Membership Promotion	Peter Horwood
Newsletter	Keith Jordan
Programs	Rod Yeoh
Publicity	Peter Horwood
Refrigeration	Wayne Borrowman
Research Promotion	Brian O'Donnell
Special Events	Eric Bradley
Student Activities	Doug Harwood
TEGA	Norm Grusnick

Prepared: April 2005

Gary Way, Historian

Year In Review - Highlights

March 2002 was a very special evening for the British Columbia Chapter, as we celebrated our **50th anniversary** as a Chapter. In addition to our Past Presidents, we also invited Charter Members and many former ASHRAE Chapter members who have retired or moved away. We also had visits from Region XI Chairman **Doug Dunford** and Society Vice-President **Lee Burgett**. Our guest speaker was well known local historian and author **Chuck Cook**. A celebration like this only comes around once every 50 years, and the turnout and camaraderie made the effort well worthwhile.

Other meetings this year included tours of Surrey Hospital (Morgue) and Canada Place to view their new seawater cooling system. Meeting talks included "Ground Source Heat Pumps", "Water Quality for Greater Vancouver Regional District", "Ventilation for Multi-Story Buildings", and "Heat Recovery from Refrigeration Systems". Spouses' Night featured a musical play named "Dames at Sea".

Two of our Members were elevated to the grade of Fellow. **Ron Strong** & **Blair McCarry** received their awards at the 50th Anniversary meeting.

Bob Cooper was presented with a 50 year membership certificate and **Bob Cawker** was presented with a special award for his long service as the Chapter Accountant..

The golf tournament was held at Morgan Creek.

The chapter entered the 21st century of member communications, by changing notification from fax notices to email messages. While it has many drawbacks, it has proven to be the least intrusive, and fastest and easiest method to communicate to our membership. We also changed the distribution of the Totem newsletter, so that it is now sent via email or viewable at our website. The savings to the Chapter in postage alone is considerable, allowing us to use those funds for other activities such as ASHRAE research and student grants.



*American Society of
Heating, Refrigerating and Air-Conditioning Engineers,
Inc.*

Recognizes

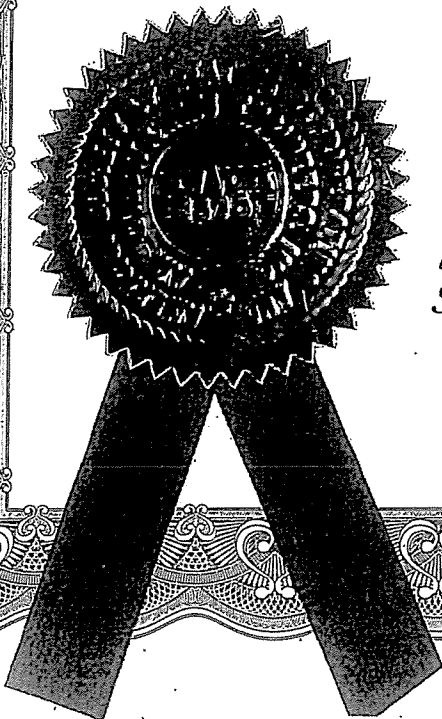
*the contributions to the Society
and to the process of technological advancement
for the public good
by the members of the*

British Columbia Chapter

on the occasion of the

*Fiftieth Anniversary
of the chapter's chartering*

Chartered: January 27, 1952



Secretary

President



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 2002-2003

Elected Board

Chapter President	Rod Yeoh
President-Elect	Norm Grusnick
Vice-President	Peter Horwood
Treasurer	Bob Mackie
Secretary	Edward Chessor
Past President	Eric Bradley
Governor	Wayne Borrowman
Governor	Chris Collett
Governor	

Committee Chairs

Attendance	Charlie Sabeau
CRC Delegate	Norm Grusnick
CRC Alternate	Peter Horwood
Chapter Section	Edward Chessor
Government Activities	Toby Lau
Historian	Gary Way
Honours & Awards	Robert Flipse
Meeting Notices	Gary Way
Membership Promotion	Keith McDonnell
Newsletter	Keith Jordan
Programs	Peter Horwood
Refrigeration	Wayne Borrowman
Research Promotion	Eric Bradley
Roster / Mailing List	Jason White
Special Events	Norm Grusnick
Student Activities	Jon Bowes
TEGA	Chris Collett

Prepared: April 2005

Gary Way, Historian

Year In Review - Highlights

The year got off to a jolted start as **Kim LaBreche** (incoming Chapter President) announced that she was stepping down and leaving the HVAC industry. She had an opportunity to return to the career that she had trained for, which is Accounting. So that made for some quick scrambling to fill Board positions, and made **Rod Yeoh** a Chapter President one year earlier than he expected. However Rod stepped up to the plate and did an admirable job of leading the Chapter.

The Chapter co-sponsored, with SNACNA-BC, a day long seminar on Duct Construction Standard. This was very well attended with over 125 people registered.

Several meetings were held in the Okanagan for the Interior Section, which seems like it is finally starting to get off the ground. **Ed Chessor** is spearheading the efforts locally, along with several members from the Kamloops/Kelowna area.

Meetings this year included a tour of the Bombardier Vehicle Assembly Plant (Sky Train cars), and speaker topics included: "Heat Recovery Technologies", "Glass Fiber Insulation", "Condensing Boiler Technology", and "8 Steps to Proper Humidification".

Several articles were published in the Totem, regarding the a fairly new (to BC) energy/green standard known as LEED Certification. Green Building Technology was a big part of our Chapter meeting topics and issues this year, which is fitting, as Chapter President **Rod Yeoh** has championed the cause of green buildings for some time. April was another succesful Trade Show with Society President **Don Colliver** attending. At CRC **Norm Grusnick** won the Regional **Winston Award** for outstanding Chapter programs. **Ken Cooper** a life member passed away this year



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 2003-2004

Elected Board

Chapter President	Norm Grusnick
President-Elect	Peter Horwood
Vice-President	Bob Mackie
Treasurer	Edward Chessor
Secretary	Wayne Borrowman
Past President	Rod Yeoh
Governor	Burhan Bagran
Governor	Chris Collett
Governor	Keith McDonnell

Committee Chairs

Attendance	Charlie Sabeau
CRC Delegate	Peter Horwood
CRC Alternate	Bob Mackie
Chapter Section	Edward Chessor
Government Activities	Toby Lau
Historian	Gary Way
Honours & Awards	Robert Flipse
Meeting Notices	Gary Way
Membership Promotion	Jason White
Newsletter	Keith Jordan
Programs	Bob Mackie
Refrigeration	Wayne Borrowman
Research Promotion	Rod Yeoh
Roster / Mailing List	Keith McDonnell
Special Events	Eric Bradley
Student Activities	Jon Bowes
TEGA	Chris Collett

Prepared: April 2005

Gary Way, Historian

Year In Review - Highlights

The year started with a tour of the CanAgro facility, which uses methane from the Delta landfill in a co-gen plant. We also had a lively panel discussion on "What Has the HVAC Industry Done For Me." This led to some interesting observations and comments. Another panel discussion discussed "Ethics, Legality, Codes and Specifications." Other, more technically oriented topics included "Hospital Air Issues", "Residential Multi-Family High Rise Energy Efficiency", "Open Protocols", and "Investment Returns on Green Buildings".

There have been several employment positions advertised in recent issues of the Totem Newsletter. This probably reflects on the improved economy, and construction boom that we are experiencing. How long it will last remains to be seen, but we will enjoy it while we can.

The golf tournament was held at Morgan Creek this year.

The Chapter lost one of its most ardent supporters in April 2004. **Ralph Robson** passed away after a lengthy illness. Ralph could easily have been nicknamed Mr. ASHRAE, as he devoted numerous hours to ASHRAE. He was a Chapter President (1986) and compiled the original history of the Chapter. He was also a Regional Vice Chair of TEGA and worked on various committees at Society. Chapter won two Regional Technology Awards for Heritage Mountain School and the Vancouver Works Yard. A tremendous refrigeration tour of Neptune Foods ended the programs for the year. Another sad note we lost Mickey Drake this year.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 2004-2005

Elected Board

Chapter President	Peter Horwood
President-Elect	Bob Mackie
Vice-President	Edward Chessor
Treasurer	Wayne Borrowman
Secretary	Chris Collett
Past President	Norm Grusnick
Governor	Ivan Holdo
Governor	Norm Grusnick
Governor	Eric Bradley

Committee Chairs

Attendance	Charlie Sabeau
CRC Delegate	Bob Mackie
CRC Alternate	Edward Chessor
Chapter Section	Edward Chessor
Government Activities	Toby Lau
Historian	Gary Way
Honours & Awards	Robert Flipse
Meeting Notices	Gary Way
Membership Promotion	Charlotte Ross
Newsletter	Keith Jordan
Programs	Edward Chessor
Refrigeration	Wayne Borrowman
Research Promotion	Norm Grusnick
Roster / Mailing List	Keith McDonnell
Special Events	Norm Grusnick
Student Activities	Audrey Quay
TEGA	Chris Collett
Website	Robert Mackie

Prepared: April 2005

Gary Way, Historian

Year In Review - Highlights

Another great start to the year featured Distinguished Lecturer **Julian de Bullet** with a very polished presentation on Centrifugal Chillers. Our October meeting ASHRAE Fellow **Blair McCarry** spoke on the Quiet Mechanical Room and Systems for the Surrey City Centre project. November Mould and Fungus took centre stage in their effects on ventilation systems. November ASHRAE also honoured **REFRIGERATION** as it has been 100 years of Refrigeration.

After Christmas break our January meeting featured Society President **Ron Vallort**. He was also planning to give a luncheon talk to several engineers but bad weather and flight delays caused a cancellation of this luncheon. During the evening Ron presented a 50 year certificate to **John Hoyle** and a Life Member certificate to **Dale Pitts**.

March we were honored to have a visit from Region XI DRC **Bill Dean**, this was combined with our tour of the Vancouver Works Yard a LEED Gold project and winner of last years Regional Technology Award.

It seems that everybody is extremely busy, so busy in fact that we were unable to find a volunteer to organize and chair the semi-annual Trade Show. Tim Hutchison, who previously chaired it, is now out of the HVAC industry (although still an active member). So the Board decided to postpone the event until next year. April featured a presentation on Pool design and May we toured a grocery store and its refrigeration systems. The CRC was in Hawaii and the BC Chapter received the Dick Perry Award for outstanding chapter. The annual golf tournament again chaired by **Norm Grusnick** was again sold out and all attendees had a great time.

At the ASHRAE Annual meeting in Denver **Dale Carter** was awarded the Distinguished Service Award.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year:2005-2006

Elected Board

Chapter President	Bob Mackie
President-Elect	Ed Chessor
Vice-President	Wayne Borrowman
Treasurer	Chris Collett
Secretary	Charlotte Ross
Past President	Peter Horwood
Governor	Eric Bradley
Governor	Charlie Sabeau
Governor	Ivan Holdo

Committee Chairs

Attendance	Victor Raju
CRC Delegate	Ed Chessor
CRC Alternate	Wayne Borrowman
Chapter Section	Ed Chessor
Government Activities	Tob Lau
Historian	Gary Way
Honours & Awards	Rob Flipse
Meeting Notices	Keith Jordan
Membership Promotion	Steve Montagano
Newsletter	Keith Jordan
Programs	Wayne Borrowman
Refrigeration	Wayne Borrowman
Research Promotion	Peter Horwood
Roster / Mailing List	Lisa Willis
Special Events	Norm Grusnick
Student Activities	Omid Manouchehri
CTTC	Chris Collett
Website	Keith Jordan

Prepared January 2011

Year In Review - Highlights

Norm Grusnick, Chapter Historian

Bob Mackie's presidential theme "Get Involved" set the stage to get out more involvement from Chapter members. The Dinner Meeting program set out by Wayne Borrowman and his committee continues a tradition of excellent dinner meetings. The year kicked off with a tour of the "Life Sciences Building" at UBC. This project won the Regional Technology Award last year for MCW Consultants, **Sam Louie** and **Mike Boyle**. They are applying for LEED Gold. Membership RVC Kevin Marple visited our chapter.

Jim Garrett from Taco Pumps spoke on Pump Load Matching in October as well as holding a workshop.

Distinguished Lecturer **Brian Monk** visited in November speaking about "Energy Savings by Integrating a Total Filtration Strategy into Building HVAC Systems".

The second half of the ASHRAE year began as usual with the January Past Presidents night. Our special guest was Society Vice President **Ron Jarnigan** speaking on "Energy Design Guides for Small Buildings". Students dominated in February at Students Night and on the evening topic was the Government of Canada position on Green House Gas issues.

March brought students and their presentations, and membership night. The evening previewed the 2010 Winter Olympics with VANOC-VP Steve Matheson giving us a games venue progress report. April was a joint meeting with RSES and a tour of the Zero-loc Insulated Panel Manufacturing Plant.

The delayed Trade Show finally happened in May of this year with over 60 exhibitors. The dinner meeting speaker was **Eli Howard III** the SMACNA director of Technical Services with the topic "Going Green with SMACNA". The CRC was held in Victoria this year and the year finished off with a great day of golf at Swan-e-set Country Club.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 2006-2007

Elected Board

Chapter President	Ed Chessor
President-Elect	Wayne Borrowman
Vice-President	Chris Collett
Treasurer	Les Pereira
Secretary	Charlie Sabeau
Past President	Bob Mackie
Governor	Kam Gill
Governor	Norm Grusnick
Governor	Eric Bradley

Committee Chairs

Attendance	Victor Raju
CRC Delegate	Wayne Borrowman
CRC Alternate	Chris Collett
Chapter Section	Ed Chessor
Government Activities	Toby Lau
Historian	Peter Horwood
Honours & Awards	Rob Flipse
Meeting Notices	Lisa Willis
Newsletter	Kieth Jordan
Programs	Chris Collett
Refrigeration	Jamie Miguel
Research Promotion	Bob Mackie
Roster / Mailing List	Lisa Willis
Special Events	Norm Grusnick
Student Activities	Joseph Cheung
CTTC	Godfrey Nash
Website	Wade Gomer

Prepared January 2011

Year In Review - Highlights

Norm Grusnick, Chapter Historian

We started the year with a New Society President -**Terry Townsend**- who really understands that climate change is happening, energy markets are changing, and ASHRAE has a big role to play in that change.

CIRS- Centre for Interactive Research on Sustainability was the topic for September. **Stuart Hood** and **Catherine Taylor-Hell** of Stantec Consulting gave an excellent presentation on this living lab for efficient envelope technologies. October we had **Tom Hartman** from The Hartman Company in Texas advocating a change from the proportional, integral, derivative (PID) controls to Relational Controls.

Tim Hutchison and **Walter Prescott** organized another Interior Section meeting in Kamloops in October.

Distinguished Lecturer **Brian Monk** spoke to a large crowd on "Swimming Pool Dehumidification and IAQ Issues".

After the holidays **Godfrey Nash** enlightened us on the issues involved in "Retrofitting for Condensing Boilers". Mike Schell from Airtest Technologies was our February guest speaker-"Fresh Air Ventilation Strategies and Economiser Ventilation". March was a tour of the Thunderbird Winter Sports Centre- Two Ice sheets to be used for Sledge Hockey during the Winter Paralympics.

Distinguished Lecturer **Dennis Stanke** from Trane gave an update on ASHRAE Standard 62. May finished with a tour of BCIT Centre for the Advancement of Green Roof Technology and ended with our annual Golf Tournament. CRC this year was hosted by the Alaska Chapter and was the first "CRC at Sea" -a Carnival Cruise from Vancouver to Alaska and Back.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 2007-2008

Elected Board

Chapter President	Wayne Borrowman
President-Elect	Chris Collett
Vice-President	Charlie Sabeau
Treasurer	Les Pereira
Secretary	Roberto Costa
Past President	Ed Chessor
Governor	Eric Bradley
Governor	Rob Flipse
Governor	Lisa Willis

Committee Chairs

Attendance	Jamie Miguel
CRC Delegate	Chris Collett
CRC Alternate	Charlie Sabeau
Chapter Section	Ed Chessor
Bylaws	Gary Way
Historian	Peter Horwood
Honours & Awards	Rob Flipse
Meeting Notices	Lisa Willis
Membership Promotion	Joseph Cheung
Newsletter	Lisa Willis
Programs	Charlie Sabeau
Refrigeration	Jamie Miguel
Research Promotion	Ed Chessor
Membership Data Base/E-mail	Lisa Willis
Special Events	Norm Grusnick
Student Activities	Godfrey Nash
CTTC	Chris Collett
Website	Wade Gomer

Prepared January 2011

Year In Review - Highlights

Norm Grusnick, Chapter Historian

We started the year off with a speaker from "Down Under" - **Duncan Chalmers** a Mining expert from Australia, University of South Wales spoke on Mine Ventilation. October DRC **Traci Hanegan** visited and we had our meeting in the shop of Viaduct Sheet Metal and from there went on to tour the Kwantlen University Campus next door. November **Ken Loudermilk** of Trox USA spoke on chilled beams. January, **Andrew Pape-Salmon** from The Ministry of Energy, Mines, Petroleum Resources spoke on the provincial initiative to adopt ASHRAE Standard 90.1 - 2004.

The Vancouver 2010 Winter Games now just two years away. Attendance at our dinner meetings continues to be strong. In February we held a joint meeting with ASPE (American Society of Plumbing Engineers) on mixing valves in hot water systems.

In March we were fortunate to have another Society Presidential Visit - **Kent Peterson** gave his Presidential speech "Greater Efficiency Today Blue Skies Tomorrow". This was also a Past Presidents Luncheon.

April - Refrigeration Night- we had a presentation on the Whistler Sliding Centre by **Eric Bradley** and **Wayne Dilk**. This venue will host the Bobsled, Luge and Skelton Events. May - Students Night- had our students presenting their projects. The CRC was hosted by the Northern Alberta Chapter and held at the West Edmonton Mall.

The Golf Tournament again organized by **Norm Grusnick** and his committee moved to Westwood Plateau and as always a good time was had by all the members and guests. The June Society Annual meeting was held in Salt Lake City Utah.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2008-2009

Elected Board

Chapter President	Chris Collett
President-Elect	Charlie Sabeau
Vice-President	Les Pereira
Treasurer	Roberto Costa
Secretary	Mihaela Spulber
Past President	Wayne Borrowman
Governor	Rob Flipse
Governor	Eric Bradley
Governor	Lisa Willis

Committee Chairs

Attendance	Jamie Miguel
CRC Delegate	Charlie Sabeau
CRC Alternate	Les Pereira
Chapter Section	Walter Prescott
Bylaws	Gary Way
Historian	Norm Grusnick
Honours & Awards	Rob Flipse
Membership Promotion	Joseph Cheung
Newsletter	Chris Collett
Programs	Les Pereira
Refrigeration	Jamie Miguel
Research Promotion	Wayne Borrowman
Special Events	Norm Grusnick
Student Activities	Godfrey Nash
CTTC	Charlotte Ross
Website	Chris Collett

Prepared January 2011

Norm Grusnick, Historian

Year In Review - Highlights

Chris Collett was an outstanding President. His theme "Value to Members" began early as he had all Board members over to his house for a barbeque and planning session. September as we often do was a tour - The BCIT Green Roof Technology Centre presented by **Maureen Connolly**. October was one for the record books 135 members and guests attended to hear Distinguished Lecturer **Julian de Bullet** speak about Variable Refrigerant Flow Technology. Dr. Ray Cole spoke to us on "Net Zero" in March. The "Road to Carbon Neutrality" was presented by **Jennifer Sanguinetti** of Stantec Consulting. Prior to this meeting our own Dick Perry gave us a talk on the new ASHRAE headquarters building in Atlanta. We submitted a proposal to have the Annual ASHRAE summer meeting held in Vancouver at a future date.

Past Presidents luncheon in January we had an informative presentation "Air Filtration and MERV ratings". Tour of the new Olympic Speed Skating Oval in February attracted almost 200 guests. We held several ASHRAE ALI 90.1 day long seminars this year with great success. April was Student Night with a small job fair. May was a combined ASPE meeting. **Michael Thomas** presented many options and uses for Water Source Heat Pumps, also swore in the new Board and presented hardware from the CRC.

On to CRC we received the Dick Perry Award for outstanding chapter. **Norm Grusnick** was presented Regional and Chapter Service Awards. **Jamie Miguel** the L.O. Crooks Refrigeration Award, **Chris Collett** the Donald Kroeker Newsletter award. Regional Technology Award for Abbotsford Regional Hospital. Kam Hon and Bob Yoneda both passed away this year. **Norm Grusnick** received the **Top Dog Award** at the ASHRAE summer meeting as the best Research -RVC in the Society this year. The year ended again with a great day of golf at Westwood Plateau.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year: 2009-2010

Elected Board

Chapter President	Charlie Sabean
President-Elect	Les Pereira
Vice-President	Roberto Costa
Treasurer	Mihaela Spulber
Secretary	Kim Rosval
Past President	Chris Collett
Governor	Rob Flipse
Governor	Eric Bradley
Governor	Tariq Amlani

Committee Chairs

Attendance	Jeff Hocquard
CRC Delegate	Les Pereira
CRC Alternate	Chris Collett
Chapter Section	Walter Prescott
Government Activities	Toby Lau
Historian	Norm Grusnick
Honours & Awards	Rob Flipse
YEA	Tariq Amlani
Membership Promotion	Joseph Cheung
Newsletter	Chris Collett
Programs	Roberto Costa
Refrigeration	Jamie Miguel
Research Promotion	Chris Collett
Roster / Mailing List	Chris Collett
Special Events	Norm Grusnick
Student Activities	Kyle Reese
CTTC	Charlotte Ross
Website	ooiman

Year In Review - Highlights

Prepared January 2011
Norm Grusnick, Historian

We started off September with a very large group touring the new Vancouver Convention Centre Expansion. The mechanical contract for Fred Welsh limited was 55 million dollars and lasted over 32 months. **Robert Abbenhuis** of Stantec Engineering gave us an overview. In late September the Interior Section held a Trade Show in Kamloops "The Green Advantage". **Tim Hutchison** and **Walter Prescott** did an outstanding job.

October we had a vendor EMONA Sales host and sponsor a tour/presentation of a Boiler Room retrofit at the Croatian Cultural Centre, Student Activities RVC **Doug LeCren** also attended this meeting. **Tariq Amlani** started a YEA group this year. Distinguished Lecturer **Paul Piper** from Venmar gave a great presentation "Meeting and exceeding high performance standards with air to air recovery systems".

January luncheon was held at the Vancouver Convention Centre. Society President **Gordon Holness** was our guest speaker - "Sustaining our Future by Rebuilding our Past". Highlighted many of our chapters strong Research Donors. February we had no meeting as we paused to take in the Olympic Games.

March we heard about upcoming initiatives from the Canadian Green Building Council. April **Art Doramajian** of Munters Corporation spoke on "Desiccant Dehumidification". In May we learned about CO2 as a refrigerant in Heat Pumps, was also student night. At CRC the Chapter won several Technology awards by Cobalt Engineering for the Olympic Village and DEC Design for three other projects. The Students at UBC won a Technology award for their submission. **Tim Hutchison** a Chapter Past President and organizer of many trade shows passed away this year. **Chris Collet** our Research Chair had a chapter record breaking year collecting \$23,240.00 for ASHRAE Research. The year ended with our traditional Golf Tournament at Westwood Plateau.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2010-2011

Elected Board

Chapter President
President-Elect
Vice-President
Treasurer
Secretary
Past President
Governor
Governor
Governor

Les Pereira
Chris Collett
Mihaela Spulber
Kim Rosval
Stephen Kooim'an
Charlie Sabean
Rob Flipse
Eric Bradley
Tariq Amlani

Committee Chairs

Attendance
CRC Delegate
CRC Alternate
Chapter Section
Government Activities
Historian
Honours & Awards
YEA
Membership Promotion
Newsletter
Programs
Refrigeration
Research Promotion
Roster / Mailing List
Special Events
Student Activities
CTTC
Website

Jeff Hocquard
Chris Collett
Mihaela Spulber
Walter Prescott
Toby Lau
Norm Grusnick
Rob Flipse
Tariq Amlani
Camille Soer
Chris Collett
Mihaela Spulber
Daniel Sniatowski
Charlie Sabean
Tariq Amlani
Norm Grusnick
Kyle Reese
Charlotte Ross/Ian Journey
Stephen Kooiman

Prepared July 2011

Norm Grusnick, Historian

Year In Review - Highlights

The Chapter year started off early. During the summer Tariq Amlani organized the Chapter's first ever "YEA" Social. September again started off with a Tour - "The Olympic Village" an award winning -LEED Platinum project. Goran Ostojic of Cobalt Engineering gave us a great overview. In October Jeff Weston gave us a great presentation on the Thermanex System and challenged a lot of our assumptions. The ASHRAE Chapter had a booth at the BC Hydro Power Smart Forum. Our November meeting was also a great success and included both a workshop on Vibration Isolation by Tiberio Spulber, and a dinner meeting presentation about HVAC Related Acoustics by Douglas Whicker. The January luncheon and past presidents event was salvaged. Distinguished Lecturer Kent Peterson was delayed due to snow, so his pre prepared presentation on Standard 189 was done over the ASHRAE website. The ASHRAE Winter Meeting was close to us this year being in Las Vegas. This allowed over 70 ASHRAE members and associates to attend. Our own Dick Perry was honored with the prestigious F. Paul Anderson Award for outstanding ASHRAE achievements.

February was Refrigeration Night with Eric Bradley and Wayne Borrowman outlining Life Cycle Costing of Refrigeration Systems. Grant Udershute passed away this year. March was a lively discussion on Building Commissioning. Vancouver celebrates its 125th birthday.

More refrigeration in April with a tour of the Molson Brewery. May highlighted student presentations, new Board sworn in and a presentation on BIM-Revit.

CRC in Portland saw the chapter win six Technology awards for a variety of project categories. Also Chris Collett won the ASHRAE Research Top Dog Award.

May also had a joint half day presentation with SMACNA on Seismic Restraint, Duct Construction and Duct leakage. It was attended by over 85 design professionals.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2011-2012

Elected Board

Chapter President	Chris Collett
President-Elect	Mihaela Spulber
Vice-President	Kim Rosval
Treasurer	Stephen Kooiman
Secretary	Ian Journey
Past President	Les Pereira
Governor	Eric Bradley
Governor	Rob Flipse
Governor	Tariq Amlani

Committee Chairs

Attendance	Jeff Hocquard
CRC Delegate	Mihaela Spulber
CRC Alternate	Kim Rosval
Chapter Section	Walter Prescott
Government Activities	Norm Grusnick
Historian	Norm Grusnick
Honours & Awards	Rob Flipse
YEA	Tariq Amlani
Membership Promotion	Camille Soer
Newsletter	Charlie Sabeau
Programs	Kim Rosval
Refrigeration	Daniel Sniatowski
Research Promotion	Les Pereira
Roster / Mailing List	Chris Collett
Special Events	Norm Grusnick
Student Activities	Kyle Reese
CTTC	Charlotte Ross
Website	Stephen Kooiman

Year In Review - Highlights

Prepared August 2012
Norm Grusnick, Historian

The Chapter year started off with a barbeque at Chris Colletts' home to start planning the year. A very important year as it is the chapter's 60th Anniversary. September again started off with a tour - The Delta Controls Manufacturing Facility in Surrey. In October Distinguished Lecturer Dennis Knight gave a overview of BIM-Integrated Building Design. the November meeting had speaker Alan Niles give a practical application overview of Commercial Ground Loop Systems. January was a time of great celebration - our 60th anniversary. Society President Jarnagin, DRC Erich Binder and 27 past Chapter Presidents were all in attendance. February meeting featured Distinguished Lecturer Tim McGinn speaking on European Technologies. Also this month we lost life Member Cliff Cox. March meeting featured member Mark Lawton speaking about his Research Project on Building Envelope issues. April was refrigeration night and May we learned about the Smart Grid. The Chapter year ended again with a great golf tournament and a great CRC that was held in Winnipeg. Next year the BC Chapter hosts the CRC for Region XI.



*American Society of
Heating, Refrigerating and Air-Conditioning Engineers, Inc.*

*Recognizes
the contributions to the Society
and to the process of technological advancement
for the public good
by the members of the*

British Columbia Chapter

on the occasion of the

*60th Anniversary
of the chapter's chartering*

Chartered: January 27, 1952

Secretary

President



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2012-2013

Elected Board

Chapter President	Mihaela Spulber
President-Elect	Kim Rosval
Vice-President	Stephen Kooiman
Treasurer	Jeff Hocquard
Secretary	Randy Stuart
Past President	Chris Collett
Governor	Les Pereira
Governor	Eric Bradley
Governor	Rob Flipse

Committee Chairs

Attendance	Jeff Hocquard
CRC Delegate	Kim Rosval
CRC Alternate	Stephen Kooiman
Chapter Section	Walter Prescott
Government Activities	Les Pereira
Historian	Norm Grusnick
Honours & Awards	Rob Flipse
YEA	Jay Jagpal
Membership Promotion	Katharine Gdowski
Newsletter	Mihaela Spulber
Programs	Stephen Kooiman
Refrigeration	Daniel Sniatowski
Research Promotion	Chris Collett
Roster / Mailing List	Norm Grusnick/Chris Collett
Special Events	Norm Grusnick/Chris Collett
Student Activities	Branislav Cvijetinovic
CTTC	Charlotte Ross
Website	Chris Collett
CRC 2013	Chris Collett/Norm Grusnick

Prepared August 2013

Year In Review - Highlights

Norm Grusnick- Historian

Mihaela Spulber was President. The first woman President for our chapter with many more to follow in the future. As has been happening regularly we started the year off with a great tour of the Van Dusen Botanical Garden Visitor Centre. We received new Chapter Banner and Awards Banners with the new ASHRAE logo. Also in September the YEA group had a speed networking night. Long time life member "Jack" Bean sadly passed away this year. November Distinguished Lecturer Max Sherman 'Ventilation-The Once and Future King' entertained us all. The Chapter has implemented a new on-line registration process and on -line roster. January began with "Records Management, Retention and Cloud Computing" by Stuart Rennie. The Chapter has now set up LinkedIn and Facegroup groups. In February Anders Nielsen from Grundfos came all the way from Denmark for a very informative presentation "Pumps in HVAC Systems-What Really Matters". Dale Carter received an ESA Award and was elected as a Society Fellow. Tom Watson Society President visited us for our March Meeting "Broadening ASHRAE's Horizons". Was also attended by 23 Past Presidents. Refrigeration again enlightened us in April with Benoit Rodier from Cimco speaking on CO2 Refrigeration and it's Applications. In May Chris Collett and his committee helped us play host to a great Regional CRC meeting at the River Rock Resort. Our Chapter won several regional awards including Best Chapter. This years activities ended again with a sold out golf tournament. Jayson Bursell from UBC won the Frank M. Coda Scholarship. The UBC Student Design Team won the ASHRAE Society Student Design Competition at the Society Annual Meeting in Denver.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2013-2014

Elected Board

Chapter President
President-Elect
Vice-President
Treasurer
Secretary
Past President
Governor
Governor
Governor

Kim Rosval
Stephen Kooiman
Les Pereira
Randy Stuart
Jay Jagpal
Mihaela Spulber
Rob Flipse
Eric Bradley
Chris Collett

Committee Chairs

Attendance
CRC Delegate
CRC Alternate
Chapter Section
Government Activities (GGAC)
Historian
Honours & Awards
YEA
Membership Promotion
Newsletter
Programs
Refrigeration
Research Promotion
Roster / Mailing List
Special Events
Student Activities
CTTC
Website

Gavin McCallum
Stephen Kooiman
Randy Stuart
Not Active
Alex Blue
Norm Grusnick
Rob Flipse
Jay Jagpal
Katherine Czyz
Mihaela Spulber
Jeff Hocquard
Mark Szilard
Mihaela Spulber
Chris Collett
Norm Grusnick/Chris Collett
Branislav Cvijetinovic
Charlotte Ross
Chris Collett

Perpared August 2014

Year In Review - Highlights

Norm Grusnick- Historian

Kim Rosval was President this year, she did a great job and had a baby boy "Dylan" to finish off her term. Again we started off the year with a Great tour of B.C. Place along with SMACNA and MCA. Vancouver hosted the Society World IAQ 2013 Conference. October saw a workshop and dinner meeting presented by Bob Kline "Advanced VAV System Design and Energy Modelling with VAV Diffusers". November we were able to get a second tour/meeting with a Refrigeration Night at Hillcrest Community Centre the site of the 2010 Olympic Curling Venue. Kevin Marple Region XI DRC also visited for this meeting. October ASHRAE Journal featured an article on the Whistler Athletes Village Technology Award winning design by DEC Engineering. January was Past Presidents Night and the Presentation by Bill Bahnfleth Society President was cancelled due to bad weather conditions however we were fortunate to have Greg McCall Energy Specialist at the City of Vancouver discuss Vancouver's adoption of ASHRAE 90.1. February was Membership Night and Jay Eldridge spoke on "Fan Efficiency Requirements within ASHRAE Standard 90.1-2013". March Distinguished Lecturer Dr. Lily Wang presented "Acoustics that make the Grade-Improving Sound Performance in the Classroom". April 10 the Vancouver Island Chapter held a successful trade show attended by many from Vancouver. This moved our April meeting to the 16th when Jim Aswegan Chief Engineer at Titus presented "thermal Displacement Ventilation". May 8,9,10 the annual CRC was in Richland Washington. Final Dinner meeting of the year Distinguished Lecturer Verle Williams spoke about "Central Chiller Plants turn up Gold". The year ended again with our annual Golf Tournament. Tariq Amlani was recognized for his involvement in YEA-Young Engineers in ASHRAE. The Summer ASHRAE Meeting was held in Seattle and a Technology Award was won by AECOM for Okanagan Falls Treatment Plant Project. In May of this year ASHRAE Presidential member Dick Perry passed away.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2014-2015

Elected Board

Chapter President	Stephen Kooiman
President-Elect	Les Pereira
Vice-President	Randy Stuart
Treasurer	Jay Jagpal
Secretary	Baki Cvijetinovic
Past President	Kim Rosval
Governor	Eric Bradley
Governor	Rob Flipse
Governor	Chris Collett

Committee Chairs

Attendance	Gavin McCallum
CRC Delegate	Les Pereira
CRC Alternate	Randy Stuart
Chapter Section	Diego Mandelbaum
Government Activities	Alex Blue
Historian	Norm Grusnick
Honours & Awards	Rob Flipse
YEA	Cam McLeod
Membership Promotion	Alfredo Munoz
Newsletter	Mihaela Spulber
Programs	Randy Stuart
Refrigeration	Mark Szilard
Research Promotion	Kim Rosval
Roster / Mailing List	Chris Collett Norm Grusnick
Special Events	Norm Grusnick
Student Activities	Baki Cvijetinovic
CTTC	Norm Grusnick
Website	Chris Collett

Prepared August 2015

Year In Review - Highlights

Norm Grusnick, Historian

Stephen Kooiman was President this year. The year started on a great note with an evening at the Vancouver Aquarium, with spouses, guests and industry partners SMACNA-BC and MCABC. We had our own Dolphin show and The Integral group spoke about the mechanical upgrades. October we had a visit from Leslie Jonsson -Mazzetti Engineers in Seattle on "Living Building Challenge" standard and certification. November was Refrigeration Night and we had a tour of the Expanded Mechanical facilities at Rogers Arena and saw the inner workings of an NHL Arena. January Past Presidents Night with Society Past President Bill Bahnfleth on ASHRAE (beQ) Building Energy Quotient. February - Membership night speaker Harald Prell President Viessmann Manufacturing- 'Biomass Boiler System Principals of Design'. March meeting Todd Busch on Acoustical Engineering Design of Laboratories. April another Membership night with Daniel Boyton on 'Integrated Systems Commissioning of Fire and Mechanical Systems'. May ASHRAE Distinguished Lecturer James Tauby spoke on 'Seismic Restraint of Mechanical Systems'. As is tradition the year ended with another great Golf Tournament with 144 participants and another 20 for dinner. At the Society Summer meeting Norm Grusnick was presented with a (DSA) Distinguished Service Award. This summer sadly Peter Djwa Chapter President 1985-86 passed away. The CRC was held in Calgary.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2015-2016

Elected Board

Chapter President	Les Pereira
President-Elect	Randy Stuart
Vice-President	Jay Jagpal
Treasurer	Baki Cvijetinovic
Secretary	Gavin McCallum
Past President	Stephen Kooiman
Governor	Eric Bradley
Governor	Rob Flipse
Governor	Chris Collett

Committee Chairs

Attendance	Gavin McCallum
CRC Delegate	Les Pereira
CRC Alternate	Randy Stuart
Chapter Section	Diego Mandelbaum
Government Activities	Alex Blue
Historian	Norm Grusnick
Honours & Awards	Rob Flipse
YEA	Mike Kasuya
Membership Promotion	Alfredo Munoz
Newsletter	Zander Brosky
Programs	Jay Jagpal
Refrigeration	Hamid Azarnoush
Research Promotion	Stephen Kooiman
Roster / Mailing List	Chris Collett Norm Grusnick
Special Events	Norm Grusnick
Student Activities	Manny Daid
CTTC	Norm Grusnick
Website	Chris Collett

Prepared August 2016

Norm Grusnick, Historian

Year In Review - Highlights

Les Pereira was President again this year. The season kicked off with a Tour of Science World, with members of SMACNA-BC. Ken Newbert and his group from Integral gave us an overview of all the HVAC upgrades. The building was originally constructed for the Expo 86 Worlds fair. After several years of faltering Zander Brosky has resurrected the TOTEM as a quarterly newsletter. October Distinguished Lecturer Chris Mathis presented the latest on Standard 90.1. Ali Nezari of the Integral group gave us a presentation on Energy Modelling and why it is invaluable for clients and designers during the November meeting. January meeting Ron McLaughlin presented on "Energy Savings by Lowering Condensing Temperatures". February was Past Presidents Night and speaker/guest was Society President David Underwood. Mr. Underwood related a story of the historic Quebec Bridge Collapse and its importance to Canadian Engineers. President Underwood also presented his theme "Making Connection" which focuses on the first level of ASHRAE's Strategic plan. March featured Frank Stamatatos tracing the evolution of air filtration techniques.

April brought another great tour - Langley Events Centre- Refrigeration Night. This facility is home to the Vancouver Giants of the WHL. We had three presenters, The Contractor, The Engineer, The Vendor all outlining their role in the project. May meeting we had distinguished ASHRAE presenters Julia Keen and Joel Primeau enlighten us on Generation Y,X and Millennials and how this will affect our workplaces in the future.

May golf tournament was again a great success and we were joined by BC Lions Cheerleaders as grand prize was two seasons Tickets for next year. The CRC was held in Saskatoon.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2016-2017

Elected Board

Chapter President	Randy Stuart
President-Elect	Jay Jagpal
Vice-President	Baki Cvijetinovic
Treasurer	Gavin McCallum
Secretary	Jeff Hocquard
Past President	Les Pereira
Governor	Eric Bradley
Governor	Rob Flipse
Governor	Chris Collett

Committee Chairs

Attendance	Ali Zahedi
CRC Delegate	Jay Jagpal
CRC Alternate	Baki Cvijetinovic
Chapter Section	Diego Mandelbaum
Government Activities	Les Pereira
Historian	Norm Grusnick
Honours & Awards	Rob Flipse
YEA	Mike Kasuya
Membership Promotion	Mo Afshin
Newsletter	Derek Bartley
Programs	Baki Cvijetinovic
Refrigeration	Hamid Azarnoush
Research Promotion	Les Pereira
Roster / Mailing List	Chris Collett Norm Grusnick
Special Events	Norm Grusnick
Student Activities	Rhys Gamache
CTTC	Norm Grusnick
Website	Derek Bartley

Prepared August 2017

Norm Grusnick, Historian

Year In Review - Highlights

Randy Stuart was President this year. We started the year with a unique venue, The Deeley Motorcycle Museum. A great social function featuring many vintage and new motorcycles. The dinner topic was Cloud Computing, big data and building automation by Keith La Rose. October brought us Distinguished Lecturer Ron Wilkinson he explained the 'Commissioning process for Existing Buildings' and how to properly document your findings. November we switched to a lunch meeting downtown with Steve Clayman explaining to us what is new in codes and applications of Mechanical Insulation. January we had a joint meeting with IAQA Vancouver. Speaker was James Montgomery from RDH Building Science presenting the topic Energy Code Options for Existing Buildings. February was again Past Presidents Night with speakeréuest Society President Tim Wentz. Tim outlined his theme Adapt Today to Shape Tommorrow. March speaker Bill Baglot discussed VFD and ECMs and how they affect Pump Selection and Energy Savings. April brought another great tour of the Refrigeration Systems at Richmond Ice Centre. Eric Bradley gave a summary of the chiller upgrade and the tight schedule that had to be adhered to. May was Student Night. Students displayed their work and mingled with potential employers. The speaker was Professor Steven Rogak from UBC. His topic was Aerosols in Buildings. CRC was held in Puget Sound-Seattle this year. The final event of the year was a successful golf tournament with marginal weather.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2017-2018

Elected Board

Chapter President	Jay Jagpal
President-Elect	Baki Cvijetinovic
Vice-President	Gavin McCallum
Treasurer	Jeff Hocquard
Secretary	Rhy Gamache
Past President	Les Pereira
Governor	Peter Sung
Governor	Rob Flipse
Governor	Chris Collett

Committee Chairs

Attendance	Ali Zahedi
CRC Delegate	Baki Cvijetinovic
CRC Alternate	Gavin McCallum
Chapter Section	Diego Mandelbaum
Government Activities	Les Pereira
Historian	Norm Grusnick
Honours & Awards	Rob Flipse
YEA	Ali Zahedi
Membership Promotion	Mo Afshin
Newsletter	Derek Bartley
Programs	Gavin McCallum
Refrigeration	Hamid Azarnoush
Research Promotion	Randy Stuart
Roster / Mailing List	Chris Collett Norm Grusnick
Special Events	Norm Grusnick
Student Activities	Manny Daid
CTTC Awards	Norm Grusnick
Website	Derek Bartley

Prepared Aug-18

Year In Review - Highlights

Norm Grusnick, Historian

2017-18 Jay Jagpal was President this year. We started the year off with a great tour and social function with SMACNA-BC. We toured Central City Brewers in Surrey and learned of the many aspects of Beer making and Spirit distilling from Brewmaster Gary Lohin. We lost long time member and supporter Chris Wolfe to cancer. October Randy Zimmerman Distinguished Lecturer drew great crowd for "Sound Advise" we held a special lunch session downtown for about 90 engineers and then dinner presentation for another 80. November Bill Baglot discussed "Booster Pump Systems". January was another great turnout, 72 people came to listen to Thomas Orr presentation "Chilled Beams-from Concept to Commissioning". February we were visited by Jared Larson RVC Student Activities. He went to BCIT and UBC and visited and spoke to students and in evening addressed dinner meeting. Our Dinner speaker Barry Stephens answered many questions regarding Passive House design standards. March Interior branch held a meeting and tour of Okanagan College Facility. In Vancouver 70 people attended Pi Day meeting featuring Greg Cuniff on "Hydronics vs VAV vs VRF System Efficiencies and Comfort". April meeting had great attendance 78 people. Jim McKillip gave a great presentation on Grow Room Applications from plant dynamics to HVAC with a history on Grow operations. Meeting a week before 4/20. Greg Jernstrom YEA RVC paid us a visit for our meeting. This month we sadly lost Phil Rempel a lifelong mechanical engineer in our industry. May meeting the last of the year, Refrigeration/Student night. Introducing of new board. Students from BCIT displayed their projects. Alex Repski of Strong Consultants presented an interesting application for Refrigeration. Ground Freezing. -Its many applications in mining, tunnelling and construction. CRC was in Victoria and BC Chapter won Dick Perry Award as best Chapter. Also Dale Carter and Alex Boome were inducted into the Regional Hall of Fame. The year again ended with annual Golf Tournament this time to very good weather.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2018-2019

Elected Board

Chapter President	Baki Cvijetinovic
President-Elect	Gavin McCallum
Vice-President	Peter Sung
Treasurer	Rhys Gamache
Secretary	Mo Afshin
Past President	Jay Jagpal
Governor	Les Perrira
Governor	Eric Bradley
Governor	Chris Collett

Committee Chairs

Attendance	Terry Bowman
CRC Delegate	Gavin McCallum
CRC Alternate	Peter Sung
Government Activities	Les Pereira
Historian	Norm Grusnick
Honours & Awards	Norm Grusnick
YEA	Liam Hilder
Membership Promotion	Nick McWhitter
Sustainability	Randy Stuart
Programs	Gavin McCallum
Refrigeration	Rob Martin
Research Promotion	Jay Jagpal
Roster / Mailing List	Chris Collett Norm Grusnick
Special Events	Norm Grusnick
Student Activities	SunJun Yoo
CTTC Awards	Peter Sung
Website	Scott Shi

Year In Review - Highlights

Prepared Aug-19
Norm Grusnick, Historian

2018-19 Baki Cvijetinovic was President this year. We started the year off early with a Tour of new Emily Carr University. September was Student Night and presentation Energy Management Best Practices by John Molnar. October great night At BC Place an Evening with the Vancouver Whitecaps. In October we lost Long time ASHRAE member Ian Mackie. November Tony Scholl from Technical Safety BC presented Refrigeration night topic the Fernie Ammonia Incident. January David Hill from TECA BC provided an update on Part 9 of code Residential Ventilation. February was Past Presidents night and guest was Society President Sheila Hayter, Building our new Energy Future. March meeting "Understanding Canadian Codes and Standards" by Mannan Mohammed. Later in March we held a joint Technical Day of Seminars with SMACNA – Eli Howard and Mark Terzigini. April Distinguished Lecturer Pam Duffy presented Millennials Generation Differences in the Workforce. May CO2 Refrigeration and Heat Pumping presented by Greg Scrivener. May ended the year another great industry Golf Tournament.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2019-2020

Elected Board

Chapter President	Gavin McCallum
President-Elect	Rhys Gamache
Vice-President	Peter Sung
Treasurer	Mo Afshin
Secretary	Lindsey Resler
Past President	Jay Jagpal
Governor	Eric Bradley
Governor	Les Pereira
Governor	Chris Collett

Committee Chairs

Attendance	Terry Bowman
CRC Delegate	Peter Sung
CRC Alternate	Rhys Gamache
Chapter Section	Derek Bartley
Government Activities	Norm Mitchell
Historian	Norm Grusnick
Honours & Awards	Norm Grusnick
YEA	Dorothy Bootle
Membership Promotion	Nick McWhirter
Newsletter	Derek Bartley
Programs	Rhys Gamache
Refrigeration	Rob Martin
Research Promotion	Baki Cvijetinovic
Roster / Mailing List	Chris Collett
Special Events	Norm Grusnick/Peter Sung
Student Activities	SunJun Yoo
CTTC	Rhys Gamache
Website/ECC	Derek Bartley Scott Shi

Prepared Aug 2020

Year In Review - Highlights

2019-20 Gavin McCallum was President this year. The Board started off early and well with a summer planning meeting. The September meeting was Distinguished Lecturer Robert Bean "What would Drive the Sustainability Business- Energy or Indoor Environment". Great turn out 65 people and the venue was packed as the Prime Minister had a large Liberal Election Rally with Full Security, police dogs, undercover officers. Made for a unique dynamic. October meeting was a joint effort presenting a panel from ASHRAE, City of Vancouver, and Coastal Health- "Overview of Legionella and the City of Vancouver". Very informative and attended by over 100 guests. WE had a second meeting in October on Halloween. Past Presidents Luncheon meeting downtown with ASHRAE Society President Darryl Boyce. "Building for People Performance/Operational Excellence". November we had Distinguished Lecturer Dr. Stephanie Taylor present "Putting People First-Managing Indoor Human Health". Second half of the year started with a great tour of the SFU SE3P Engineering Labs in Surrey. A joint meeting with SMACNA and we had almost two hundred attendees. A very well catered event by SFU Catering. Kevin Shea of the AME Group and his staff gave a very informative presentation of the many high tech features in this 173,000 Sq. Ft. purpose built facility. February Distinguished Lecturer and Past ASHRAE President Sheila Hayter spoke on "Integrating Renewable Energy Systems into Buildings". March was our final in person meeting and function of the year as Covid-19 restrictions came into effect. March meeting was Membership Night and presenter Rob Kral presented on "Boiler Plume Abatement Systems". April and May meetings cancelled. Also our beloved Golf Tournament also had to be cancelled. In May Region XI held the first Society Virtual CRC. A learning curve for us all but the business of the region and society was dealt with.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year : 2020-2021

Elected Board

Chapter President	Rhys Gamache
President-Elect	Mo Afshin
	Vice Pres
Treasurer	Lindsey Resler
Secretary	Nick McWhirter
Past President	Gavin McCallum
Governor	Les Pereira
Governor	Peter Sung
Governor	Eric Bradley
Governor	Chris Collett

Committee Chairs

Attendance	Terry Bowman
CRC Delegate	Mo Afshin
CRC Alternate	Lindsey Resler
Chapter Section	Derel Bartley
Government Activities	Jay Jagpal
Historian	Norm Grusnick
Honours & Awards	Norm Grusnick
YEA	Dorothy Bootle
Membership Promotion	Ali Zahedi
Newsletter	Derek Bartley
Programs	Mo Afshin
Refrigeration	Rob Martin
Research Promotion	Gavin McCallum
Roster / Mailing List	Chris Collett
Special Events	Norm Grusnick
Student Act/ Women in Ash	Angela Bastain
CTTC	Randy Stuart/Albert Lin
Website	Derek Bartley

Year In Review - Highlights

Prepared Aug 2021

2020-21 Rhys Gamache was President. We started to embrace Zoom and Teams meetings to reach our members. The September meeting was trying for in person but reverted to virtual. Kyle Hasenkox current Chair of TC 9.7 Educational Facilities spoke on Aerosol Mitigation in Schools and Recreation Facilities. WE missed October. November Stephen Kooiman and Elnaz Bozorgzadeh from Prism Engineering presented "Climate Vulnerability Risk Assessment". December we virtually welcomed Chris Willemssen from Q-Pac systems and reviewed the evolution of ECM motors and it was Membership Promotion Month. In January Distinguished Lecturer Karine Leblanc spoke about personal growth and how to become more successful. February Distinguished Lecturer Dr. Stephanie Taylor presented "Making Buildings Healthier". Mar 4 we had a YEA event. Later in March Society President Chuck Gullledge presented his theme "The ASHRAE Digital Lighthouse and Industry 4.0". April Hamid Azarnoush updated us on "Regulatory Requirements for Refrigeration Systems". In May Mick Schwedler covered common chilled water system mistakes. Covid again cancelled May Golf. Final meeting in June David Kandel from Belimo spoke on "Faulty assumptions about Hydronic performance". This year we had our second Virtual CRC to conduct the regional business.



ASHRAE - British Columbia Chapter

CHAPTER HISTORY

Chapter Year 2021-2022

Elected Board

Chapter President	Mo Afshin
President-Elect/Vice President	Lindsey Resler
Treasurer	Nick McWhirter
Secretary	Ali Zahedi
Past President	Rhys Gamache
Governor	Eric Bradley
Governor	Les Pereira
Governor	Norm Grusnick
Governor	Peter Sung

Committee Chairs

Attendance	
CRC Delegate	Lindsey Resler
CRC Alternate	Nick McWhirter
Chapter Section	Angela Bastain
Government Activities	Les Pereira
Historian	Norm Grusnick
Honours & Awards	Norm Grusnick
YEA	Dorothy Bootle
Membership Promotion	Holy Denby
Website/Communication	Eric Hebbard
Programs	Lindsey Resler
Refrigeration	Rob Martin
Research Promotion	Rhys Gamache
Roster / Mailing List	Chris Collett
Special Events	Norm Grusnick
Student Activities	Angela Bastain
CTTC Awards	Randy Stuart

Prepared August 2022

2021-22 Mo Afshin was President and we continued Covid Protocol with Virtual meetings. July Distinguished Lecturer Brian Monk presented "IAQ and Cognitive Functioning in Healthy Buildings". In September we were able to squeeze in our Golf Tournament and meeting Covid rules. Late September Paul Pieper presentation "Air to Air Energy Recovery for Superior indoor Environments in a Covid context". October YEA and Student Bowling Social. Later October still virtual Erin McConahey presented "Cutting Carbon and Circular Diet, Total Net Zero Consciousness". Mid November CIPHEX- West Trade Show ASHRAE Chapter had an information booth. November Michael Glassco presented "Indoor Air Quality Awareness and Best Practices for Commercial Real Estate. Dec 7 year end social at the Rec Room showing Vaccination cards to enter. Mid December Mr. Dan Lowen "Improving Building Efficiency and Health with Accurate Data." Long time ASHRAE member and past Chapter President George Pinch passed away. February Dr. Theresa Weston presented "ASHRAE Standard 90.2-2018 and the Path to High Performance Residential Buildings". March Tyler Bryant presented "B.C.'s Lower Carbon Future". April a Social Event at the Dublin Crossing. Also in April finally back in Person Meetings Society President Mick Schwedler visited our Chapter spoke on "Building Decarbonization". In June we wound up the year at Westwood Plateau with a great year end Golf Tournament.