

Manitoba Chapter History Update

1991-1998



American Society of Heating, Refrigeration and
Air Conditioning Engineers Inc.

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CHAPTER 1 - MANITOBA CHAPTER HISTORY

The Manitoba Chapter was formed on September 25, 1935, with a petition signed by ten Charter members. The Chapter is the second oldest in Canada, after Toronto. John Steele was the first Chapter President, serving in 1935-36.

A number of traditions that have been established by the Manitoba Chapter are as follows:

- *Chapter Banner*, purchased in 1965, carries badges representing awards the Chapter has earned over the years.
- *Chapter Bell*, presented to Manitoba Chapter by Harold F. Randall, December 1, 1956, used to preside over Chapter dinner meetings.
- *Buffalo Tales*, first reference in 1972.
- *Field Trips* includes Winnipeg International Airport (1964), City Hall & Civic Centre (1965), AECL Pinawa (1966), Labatt's Brewery (1967, 1977), Conviron Ltd.(1985,1989), Legislative Building (1977,1995) and Toronto Dominion Centre (1990).
- *John Ross Curling Tournament*, first held among Prairie Chapters in March 1963. Only Manitoba win was in 1969 by George Currie, Bob Bird, Gerry Kendall and Ron Seepish.

The Chapter hosted four Chapters Regional Conferences (CRC) throughout it's history. As part of Region II consisting at that of the Canadian Chapters, the Manitoba Chapter hosted the following CRCs:

- 1965 at the International Inn with visit from J.E.Dube, Society President.
- 1970 at the Fort Garry Hotel with visit from W.G.Hole, Society President
- 1977 at the Holiday Inn with visit from Bruno Marabito, President Elect

On July 1, 1979, the Manitoba Chapter was realigned to Region XI, comprising of Chapters in the western provinces and north-west USA. Manitoba Chapter hosted a Region XI CRC in 1985 at the Holiday Inn Downtown, with visit from D. Bahnfleth, Society President Elect.

The Manitoba Chapter has seen many changes over the years:

- 30's&40's saw rapid changes in industry with one pipe steam systems, gravity flow hot water, cast iron air furnaces, coal stokers, circulation pumps and automatic temperature controls. Founded in 1935 with 10 members, meetings were held at Hotel Fort Garry.
 - In 50's, Chapter became of age with post-war boom, consulting firms being established. Steel furnaces, air conditioning, gas fired boilers, copper fin tube radiation were some of the new technologies. In 1950, there were 35 members.
 - In 60's, the Chapter saw the Closing of Winnipeg Central Heating Plant requiring residences to install their own systems. Upcoming technologies were copper tube boilers and water
-

heaters, VAV control, packaged air conditioners and centrifugal chillers. In 1962/63, Saskatchewan Chapter was formed with the result of Manitoba losing assigned members.

- In 70's, energy crisis was the strong factor in the industry. Natural gas embargo was placed on new construction, resulting in the use of electric heat. Technologies developed were solar collectors & systems, heat pumps, heat recovery. In 77/78, the Chapter membership was at 129.
 - In 80's, there was strong emphasis on building management systems, environment, ozone depletion. New technologies included plate & frame heat exchangers, variable frequency drive, ground source heat pumps. Chapter held it's 50th anniversary in conjunction with Region XI CRC on May 9th, 1985. In 1989, Chapter relocated it's dinner meeting to current location of Viscount Gort.
 - In 90's, there is stronger emphasis on total building system design, commissioning and CFC phase out. Highlights include river boat cruises and Leg tour. Chapter membership peaked to 104 in 1996.
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ASHRAE MANITOBA CHAPTER PAST PRESIDENTS

YEAR	NAME	YEAR	NAME
1935	John (Jack) B. Steele	1967	Kenneth B. Watson
1936	John (Jack) B. Steele	1968	Kenneth L. Coad
1937	D. Fraser Michie II	1969	Gordon G. Mitchell
1938	William Worton	1970	Herbert C. Sage
1939	George C. Davis	1971	Frank Burshtein
1940	Paul L. Charles	1972	Norman R. Blaine/ Ronald T. Seepish
1941	Richard L.C. Kent	1973	Bruce P. Menlove
1942	Ivan McDonald	1974	D. William Easton
1943	Frank L. Chester	1975	Hymen Dashevsky
1944	Einar Anderson	1976	Brian A. Faurshou
1945	Fred T. Ball	1977	Edward J. Faraci
1946	Robert E. Moore	1978	David E. Cross
1947	Douglas S. Swain	1979	Leslie F. Howard
1948	James R. Stephenson Sr.	1980	Thomas E. Patteson
1949	A. William Moss	1981	David B. McKibbon
1950	Charles M. Fleming	1982	Kenneth L. MacCharles
1951	John F. Bertram	1983	David R. McNeil
1952	William J. Atkinson	1984	Jerry L. Fugate
1953	Arthur K. Piercy	1985	Robert McDowall
1954	Gordon T. Christie	1986	Neil J. Childs
1955	George C. Davis	1987	Murray F. Walker
1956	Andrew H. Millar	1988	Brian C. Roberts
1957	Russell M. Fraser	1989	Dieter Bartel
1958	Douglas S. Swain	1990	Dan E. MacKay
1959	W. Lloyd Algie/ Nels B. Jorgensen	1991	Ken Webb
1960	Hugh R. Skinner	1992	Tim McGinn
1961	Al Leiterman	1993	Don Snider
1962	Kenneth J. McCartney	1994	Bert Phillips
1963	Robert R. Beattie	1995	Bill DeGagne
1964	David J. Wooley	1996	Jim McEwan
1965	Gordon R. Fownes	1997	Robert Bisson
1966	Jack W. Stephens	1998	Wayne Carpenter

CHAPTER 2 - CHAPTER HISTORY UPDATE 1935-1990

One of the objectives as part of the Chapter History update is to fill in past history write-ups as required. Leadership recall interviews and excerpts from the Buffalo Tales are means in which this update can be achieved.

PRESIDENTIAL PROFILE - Dave Wooley ASHRAE Manitoba Chapter President, 1964-65

(Prepared by Dieter Bartel , April 1995)

Dave Wooley was born in Winnipeg and was raised around Simcoe Street in the west end of town. He went to General Wolfe Elementary School and Daniel McIntyre High School, from which he graduated in 1931. After working for Coast Lumber during the thirties, Dave entered the Canadian Army in 1940 and spent the next five years overseas. During his stay in Europe, he spent his leave days attending courses at the University of Cambridge, schools in Paris and Copenhagen, taking courses such as farming, co-operatives and history.

In 1946, Dave returned to Winnipeg and settled down on Valour Road where he still resides. Dave went straight to work for Winnipeg Supply on the design and installation of boiler refractories and stokers. After one year of working there, he went to Estavan, Saskatchewan, and became a manager in one of the last underground lignite coal mines in the area. Returning to Winnipeg Supply in 1950, Dave started working in their Heating Division and was involved with design and engineering of combustion equipment, eventually going through the transformation from coal to oil to natural gas. Dave took many technical courses during the fifties and sixties, among which were “Iron Fireman” stoker courses, Chrysler air conditioning and Rheem water heaters.

Dave was involved as a “Heating Engineer” in the 1955 “reorganization” of Winnipeg Supply and saw the company expand beyond the provincial borders and sell coal and heating equipment under the name of Northwest Wholesale.

Just around the time that natural gas was becoming available in the prairie provinces and the upper Midwest states, Dave was called upon for his expertise with conversion burners and was asked to give several seminars to heating contractors, both south of the border and in the prairie provinces, during the late 1950's and early 1960's.

ASHVE looked interesting enough to Dave to have him join in the mid-fifties and kept his interest as he became very active in the local Chapter. He served as Treasurer and Program Chairman in 1960, Secretary from 1961 to 1963, and Vice-President in 1963. Serving as the Manitoba Chapter President the next year for Dave was especially rewarding. Not only did

he enjoy the privilege of serving as President, the Chapter also hosted the Region II Chapters Regional Conference, during which Dave and the entire Chapter felt a real sense of accomplishment and showed others attending Chapters how friendly Manitobans really are. Dave remained active in the Chapter for a number of years after his term as President.

Dave retired from Winnipeg Supply in 1978. His wife Ethel passed away in 1990. His two daughters have remained in Winnipeg. Dave keeps busy nowadays volunteering for shut-in work.

PRESIDENTIAL PROFILE - Jack W. Stephens

ASHRAE Manitoba Chapter President, 1966-67

(Prepared by Dieter Bartel , 1995)

Jack Stephens was born in Winnipeg and graduated from Daniel McIntyre High School. He worked for Vulcan Iron Works as a tracer and draughtsman for two years.

Leaving Vulcan Iron Works, he took a position with Motor Coach Industries Farm Division for three years, designing various products.

Jack eventually entered in the design of heating systems while engaged with Care Brothers Western, designing many large heating and air conditioning systems for Winnipeg architects before mechanical engineers established themselves in Manitoba.

Jack purchased Airmaster Sales Limited, organizing and expanding it from an agency to a manufacturing organization and sold his interest in the company in 1976.

Jack and his wife Siv now spend their time living in Winnipeg and Grand Beach during the summer and Florida in the winter. They have two daughters who are now married and live in Winnipeg. He has been involved in athletics all his lief. Playing for a short time with the Winnipeg Blue Bombers and also playing with the Winnipeg Paulins basketball team. Jack still enjoys golf at the Elmhurt Golf and Country Club and tennis at the Kildonan Tennis Club.

OBITUARY - Douglas S. Swain, P. Eng. (exert from December 92 Buffalo Tales)
ASHRAE Chapter President 1947, 1958

Doug Swain was born in Winnipeg in 1914. He spent his school days here and then went to the University of Manitoba to study electrical engineering. After graduation and getting his P. Eng., Doug joined the Trane Company in Toronto in 1937. Later he moved back to Winnipeg and became the Trane branch manager in 1960. He had great engineering talent and enjoyed problem solving which was much appreciated by his numerous customers. After retiring from Trane in 1980, Doug continued to practice engineering with MBH Mechanical Consultants for another ten years.

Doug had a very active personal life which also reflected his engineering love with model live steam locomotives. He enjoyed music and was an active member of the barbershoppers and for ten years produced the Sweet Adelines annual concert.

Doug was a thoughtful and encouraging parent and engineer who is missed by all those who knew him.

CHAPTER 3 - MANITOBA CHAPTER 60TH ANNIVERSARY

December 95 Buffalo Tales write-up

On November 9th, ASHRAE President Richard Hayter came to Winnipeg to celebrate the 60th anniversary of the Manitoba Chapter of ASHRAE. President Hayter attended a luncheon at the University of Manitoba Faculty Club to promote our organization and industry. The Head Mechanical Engineering - Dr. Hassan Solomon, Dr. Grant Sims, and Rudy Schilling were in attendance from the University, and Robert McDowall and Bill DeGagne represented our ASHRAE Chapter. Interestingly, Dr. Solomon and President Hayter received their Ph.D.'s from the same University.

President Hayter, Robert and Bill toured the new Virology Centre. A marvel to our field of engineering with different containment zones and diverse containment zones and diverse client requirements. President Hayter noticed that there was no containment between the most critical area and the City of Winnipeg, where the Hepa filters are changed.

Sixty others including fifteen Past Chapter Presidents and three from other Chapters joined Dr. Hayter for the Chapter dinner meeting. At that meeting, Bruce Menlove (President 1973/74) was presented with a Life Member certificate; David Cross (President 1973/74) was toasted for receiving the Association of Professional Engineers of Manitoba Outstanding service Award and Robert McDowall received a certificate of Appreciation for his work in ASHRAE Region XI.

Dr. Hater noted that Manitoba has a long association with ASHRAE. In 1909, Manitoban Charles Kirk was an ASHRAE member. 1964/65 President David Wooley noted that Chapter founders began meeting as early as 1928. Manitoba is the second oldest Chapter in Canada.

In his keynote speech, President Hayter shared his vision of the leadership role ASHRAE will play in the future of our industry. ASHRAE will continue as a grassroots organization and as foremost authoritative source of technical information, standards, education and opportunities for professional growth for those involved in the arts and sciences of heating, refrigerating, air conditioning, ventilation and related human factors.

Participation in ASHRAE at any level provides abundant opportunities for networking. The synergy that occurs during networking can stimulate new ideas and solutions and help expand a client base. Networking can help individuals identify complimentary skills and knowledge in others and important information sources which may be useful now or in the future. However the networking has to begin before any benefits can flow.

A copy of coffee table history book "Manitoba 125" and our 1957 membership roll were presented to President Hayter. The membership roll was forwarded to Emily Walker, Society Librarian, as Manitoba's contribution to the ASHRAE Library.

CHAPTER 4 - 1999 REGION XI CHAPTER REGIONAL CONFERENCE

The 1999 Region XI CRC is being held May 13th through May 15th at The Lombard, Winnipeg.

The CRC Planning Committee are:

CRC Chair:	Dieter Bartel
CRC Vice Chair:	Jim McEwan
Director and Regional Chair:	Robert McDowall
CRC Secretary:	John Guenther
Ex-efficio:	Dave McKibbin
Finance:	Garth Evans
Accommodations/ Hotel Arrangements:	Jim McEwan & Joyce Sim
Crisis Management:	Bert Phillips
Workshops Co-ordinator:	Murray Walker
Companion Activities:	George Kurowski & Armand Lafreniere
Reception and Registration:	Rob Sigurdson
Hospitality:	Scott Friesen
Technical Seminar:	Robert Bisson
Publications/Advertising:	Brian Webb
Golf Tournament:	Wayne Carpenter
Entertainment:	Jason Sorby

CHAPTER 5 - 1991 - 1998 CHAPTER HISTORY

1991 - 92

President	Kenneth L. Webb, Red River Community College
Pres. Elect	Tim McGinn, Scouten Mitchell Sigurdson
Vice President	John Clancy, Engineered Air
Secretary	Dieter Bartel, Centra Gas
Treasurer	Garth McKenzie, Scouten Mitchell Sigurdson
Governors	Bill Degagne, Manitoba Education Dave McNeil, Wholesale Heating Supplies Robert Bisson, Scouten Mitchell Sigurdson
Past President	Dan E. MacKay, Johnson Controls Ltd.

HIGHLIGHTS

Committee Chairman were:

Education	Ken Webb
Program	Tim McGinn
Membership Promotion	John Clancy
Research Promotion	Dan MacKay
Attendance	Garth MacKenzie
Energy & Technical Activities	Robert Bisson
Refrigeration	Don Snider
Historian	Neil Childs
Special Events	Jean Chaput
Hotel/Accommodations	Dave McNeil
Roster	Roy Thorsteinson
Newsletter Editor	Robert McDowall
Government Affairs	Alex Burachynsky

The meeting location was moved to the Birchwood Inn from the Viscount Gort. The dinner meeting format was changed this year to include: 17:00 - 17:30 Technical Session, 17:00 - 18:00 Social Hour, 18:00 - 18:45 Dinner, 18:55 - 19:25 Presentation

Annual membership dues were set at \$120, including seven meals, \$30 for basic membership without meals. Meal costs were \$20, including taxes and gratuity. There were 79 local members, including nine new members. The number of area assigned members was 179.

The October 10th Chapter dinner meeting was designated as Past Presidents Night. The presentation featured Tom Akerstream, Manager of Program Development, and Mike Dudar, Section head of Industrial Energy Management, Manitoba Hydro. They explained

the Manitoba Power Smart Program and the plans for the future. The goal of the financial incentive program is to lower the hydro demand and consumption, benefitting the Province of Manitoba as a whole.

The November 14th technical session featured Dennis Nikkel, Manager of Occupational Hygiene Policy, Workplace Health & Safety, Manitoba Department of Labour, on Local Exhaust Systems, Design Considerations. Dennis covered hood design, toxicity of contaminants, environment conditions around local exhaust, breathing zone conditions, hood capture velocities and transport velocity decisions.

The after dinner guest speaker was Ken Holland, P. Eng., Chairman & CEO Cartier International, who talked about Total Quality Management and how it can be effectively applied to any size and type of organization.

On that night, the Chapter also received a visit from Ralph Robson, Regional Vice Chairman, Energy & Technical Affairs. Ralph joined A.S.H.V.E. and the Manitoba Chapter as an Affiliate in 1953 when he was working for Lukes Heating, 347 Princess Street, until 1956 when he moved to Vancouver. He became Vancouver Chapter President in 1986 and Historian in 1987, publishing the Chapter history. He is now retired.

The fourth and fifth of a series of the joint ASHRAE and Canadian Construction Research Board half day seminars on "Indoor Environment and the Quality of Life" were held on November 22nd at the Conference Room, Canadian Institute of Industrial Technology. The topics were "Controls" and "Noise and Acoustics".

The December 12th meeting featured a panel discussion on Gas Deregulation in the Manitoba Marketplace. The panelists were Jean Chaput, Centra Gas, Greg Ruf, Great West Energy Ltd. and David Waldman, The Conserver Group. They discussed the implications of the diverse forms of gas purchase agreements on nation wide energy consumption and costs, the benefits and risks in signing agreements and what options are available.

After the panel discussion, fourteen participants stayed for the cribbage tournament, resulting in three winners with equal points: Don Cummings, Ken Webb and Robert Bisson.

The January 16th meeting was designated as Refrigeration night. The technical speaker was Miran Strizic, Cimco Lock Refrigeration on "Ammonia as a Refrigerant - It's Advantages and Applications". The use of ammonia will become more attractive with the CFC phaseout.

The after dinner speaker was Jerry Spiegel, Director General, Planning & Innovation Division, Manitoba Environment, who spoke on the draft regulations of the "Ozone Substance Depletion Act". The implementation date was set for June 30, 1992. Anyone who

purchases or handles CFCs will have to be trained in the HRAI Code of Practice. An attempt will be made to track the distribution of CFCs.

The audience at the February 13th meeting was addressed by John Frye, Superintendent of Plans Examination, City of Winnipeg, who discussed various topics related to Building Codes. These included proposed amendments to Bylaw 4304/86 Residential Building Fire Safety Bylaw, fire pump and standpipe design considerations and proposed City Mechanical Construction Permit Schedule structure and fees.

Ralph Mattison, Region XI DRC, visited the Chapter at the March 12th dinner meeting. The guest speaker that night was Walter W. Kwan, P.Eng., President of Geokwan Environmental Ltd., who presented "Environmental Site Assessment & Volatile Vapour Management". Topics covered were why and when an environmental assessment should be conducted, what is involved in an environmental assessment and how to perform one.

Perry Allen, Red River Community College instructor, presented changes to the Gas Code, CAN B1-49 Part 1 & 2, at the April 16th dinner meeting. Revisions affect the sizing of gas lines in many applications. There is provision for a less expensive tubing supply system for residential applications.

Tim McGinn, Delegate, and Don Snider, Alternate attended the Region XI CRC in Victoria, British Columbia between May 6th and 9th, 1992. Other attendees were Robert McDowall, Joyce Sim, Dieter Bartel and Les Howard. Robert McDowall was elected as Regional Vice President for Education and Neil Childs was appointed Regional Historian. The Chapter also won the coveted "Most Miles Award" as our Chapter had the most people traveling the furthest.

The Chapter Annual Meeting was held on May 27th on the Paddlewheel Queen. The new Board of Governors was announced.

In March, Robert Bisson took over the position of Treasurer as Garth McKenzie moved to Engineered Air in Calgary. Neil Childs completed the Manitoba Chapter History 1935-1990.

The Manitoba Chapter Constitution and Bylaws were reviewed by a committee consisting of Robert McDowall, Dieter Bartel, Bill DeGagne and Neil Childs. The revised copies were signed by President Ken Webb and returned to Atlanta.

A significant industry development in June 1991 was the merger of mechanical engineering firms K & D Engineering with Scouten Mitchell Sigurdson & Associates.

PRESIDENTIAL PROFILE - Ken Webb, P.Eng.

Ken was born and raised in Winnipeg before leaving to study engineering at Royal Roads Military College in Victoria and the Royal Military College in Kingston. He received his Bachelor of Chemical Engineering in 1977 and his Masters of Engineering in energy studies at the University of Canterbury in Christchurch, New Zealand in 1979. In 1980, he returned to Winnipeg where he served as a Design Consultant and Project Manager with the Department of National Defense.

After ten years with the Armed Forces, Ken joined the Energy Management Division of Manitoba Energy & Mines in 1983. In 1984, he became the Manager of Energy Programs for the commercial and industrial sector of the Province. In 1988, he joined the Department of Highways as the Operations Manager for the Mechanical Equipment Division. In 1990, Ken became the Dean of Technology at Red River Community College and in 1992 he became the Vice President Academic.

Ken is a member of the Association of Professional Engineers of Manitoba and is actively involved in task forces, technical societies and community groups.

Ken joined ASHRAE in 1981 as an Associate Member, advancing to member in 1986. He acted as Education Chairman in 1988, Vice-President in 1989, President-Elect in 1990 and Chapter President in 1991, and Research Promotion Chair in 1992.

Ken currently lives in Winnipeg with his wife Barbara, and children Megan, Dillon and Anders. In the quieter moments, he likes to play hockey, attend live theater and fight with his computer.

1992 - 93

President	Tim McGinn, Scouten Mitchell Sigurdson
Pres. Elect	Don Snider, Coldstream Products of Canada
Vice President	John Clancy, Engineered Air
Secretary	Cheryl McGinn,, Honeywell
Treasurer	Robert Bisson, Scouten Mitchell Sigurdson
Governors	Bert Phillips, Unies Ltd. James Stewart, Scouten Mitchell Sigurdson Bill DeGagne, Manitoba Education Dieter Bartel, Centra Gas Dave McNeil, Wholesale Heating
Past President	Kenneth L. Webb, Department of Highways

HIGHLIGHTS

Committee Chairman were:

Education	John Clancy
Program	Bert Phillips & James Stewart
Membership Promotion	Joyce Sim
Research Promotion	Ken Webb
Attendance	Bill DeGagne
Energy & Technical Activities	Don Snider
Refrigeration	Howard Porritt/ Harry Mah
Historian	Dieter Bartel
Special Events	Les Howard
Hotel/Accommodations	Les Howard
Newsletter/Roster	Robert McDowall
Government Affairs	David Waldman

Meeting location was changed back to the Viscount Gort Hotel, with annual full membership dues at \$120, including meals. Basic membership dues were \$50, which included one meal. Meal costs were \$20, including taxes and gratuity

There were 78 local members, including 13 new members. The number of area assigned members was 163.

The October 15th meeting, presenting featured R. A. Anderson, Ozone Depleting Substances Regulation Coordinator, Manitoba Environment. Bill covered the Ozone Depleting Substances Act which came into effect on July 1st, 1992. The presentation included an update on the Manitoba Environment 4R approach and position on training, service, recovery and enforcement.

The December 10th meeting was designated as Past Presidents Night. The dinner program featured a panel discussion on "Building Commissioning". The experts panel consisted of moderator David Waldman, P.Eng., The Conserver Group, Robert Bisson, P.Eng., Scouten Mitchell Sigurdson, James Derksen, Derksen Plumbing & Heating, Mechanical Contractors Association, Dr. John Frye, P.Eng., Superintendent of Plans Examination, City of Winnipeg, and Leon Prucyk, Manitoba Telephones System, Property Management. The discussions covered whole building commissioning: what should it cover, who should do it and who should control it.

The Cribbage tournament, organized by Les Howard, was won by Joe Smithson, Scouten Mitchell Sigurdson.

The January 14th meeting attendees were addressed by Glen Cayer, Manitoba Hydro, who provided a "PowerSmart" Program update and the Commercial Retrofit Program, which was in it's design stage at that time.

The speaker for the February meeting was Richard Swyston, a mechanical engineering graduate and lawyer, practicing in the areas of commercial litigation, construction litigation and insolvency litigation with Wolch, Pinx, Tapper, Scurfield. Richard's topic was "Changes to the Bankruptcy Act" and spoke on unpaid supplier's rights under the new bankruptcy and insolvency act.

The technical session before the March dinner meeting featured Tim McGinn, Scouten Mitchell Sigurdson, who spoke on Facilities for Hazardous Goods. The 1990 Building Code requires all new facilities for storage and handling of hazardous goods to submit plans for approval with Fire Safety Plan.

Bert Phillips, Unies Ltd., spoke on "Freeze Control Strategies & Air to Air Energy Recovery Performance" after dinner. This presentation was based on the article published in the December 1992 issue of the ASHRAE Journal, as written by Bert Phillips, Ray Chant, ex-Chapter member Don Fisher and B Bradley. The article summarized the results of a computer analysis of defrosting methods for air to air heat exchangers in climates with five to eighteen degree days of heating.

The April 15th dinner meeting was designated as Refrigeration, Student and Membership night. The technical session before dinner featured Tom Newmark, Copeland Canada who spoke on the Conversion of R12 condensing units to R134a. After dinner, Trevor Frith, York International, presented how equipment manufacturers are handling the CFC issue. Ralph Mattison, Region XI Chairman, spoke to the Chapter.

The Region XI CRC, held in Anchorage, Alaska, May 13th to 15th, was attended by Don Snider, Delegate, and John Clancy, Alternate. Other attendees included Robert McDowall (R.V.C. Education), Neil Childs (Regional Historian) and Dieter Bartel. Some of the Manitoba highlights of the CRC was Dieter Bartel awarded the History Gold Ribbon and Manitoba presented six motions, of which five were passed.

The John Ross Trophy Bonspiel was held in Saskatoon on April 3rd and Dieter Bartel, Neil Childs, Derek Plouffe and Robert McDowall represented the Manitoba Chapter. The Saskatoon Chapter beat the Regina Chapter for the 1st place trophy.

The joint MCAM-ASHRAE golf tournament was held at the Quarry Oaks Golf & Country Club, Steinbach, on June 14th .

Howard Porritt resigned early in the year as Refrigeration Chair as he had relocated to the Trane Sales Office in Sudbury, Ontario. Fortunately in February, Harry Mah, ICES, had agreed to replace Howard for the remainder of the year.

Ben Rempel, a Chapter member, passed away on August 6, 1992. The Chapter donated \$50 to the Manitoba Heart & Lung Association and \$50 to ASHRAE Research in Ben's name.

PRESIDENTIAL PROFILE - Tim McGinn, P.Eng.

Tim was born in Regina in 1960 and graduated from Miller Comprehensive High School in 1978. Tim graduated in 1983 from the University of Saskatchewan's mechanical engineering program. He went back to the U of S in 1985 and graduated in 1986 with a second degree in electrical engineering.

Tim worked with his family's multi-disciplinary engineering firm in Regina (W.T. McGinn and Associates) until 1989 as a partner and mechanical/electrical design engineer. Moving to Winnipeg in 1988, Tim joined E.J. Faraci and Associates as a mechanical and electrical designer, starting an electrical group for the firm. In 1989, Tim joined K & D Engineering and again developed an electrical group within that firm in addition to providing mechanical design and project management expertise. K&D Engineering was merged with Scouten Mitchell Sigurdson and Associates in 1991. Tim joined the new firm as a Project Manager, Design Engineer and Associate, working on a wide range of projects including the Dauphin Recreation Complex, Thunder Bay Air Terminal Building and City of Winnipeg Public Works Amalgamated Office Building and Central Stores.

Tim moved to Calgary in 1995 and joined Reid Crowther and Partners in the capacity of Mechanical Division Manager and later Manager of Building Engineering and Partner. Tim continued to act as Project Manager and Designer on such projects as the Peter Lougheed Hospital Regeneration and the 6-year program to expand the Calgary International Airport Terminal Complex.

Tim joined ASHRAE in 1982 as a Student, 1984 as Associate and Full Member in 1988. While a member of the Regina Chapter, positions included Education, Secretary, Program and Treasurer. In Winnipeg, Tim served as chairman for Education, Membership, Program, Treasurer, Vice President, President, and Research Promotion. Tim has also been active at Society Level serving as RVC for Student Activities in 1994 to 1997, Vice Chairman of

Student Activities – 1998, Student Activities Committee Chairman – 1999 and on the Region XI Nominating Committee (1998/99). Tim has also been active in Society Technical Activities as member and Chairman of TC 10.2 – Automatic Icemaking Plants and Skating Rinks and member of the Task Group on Cold Climate Design. Tim is an active member of the Southern Alberta Chapter.

Tim is married to Cheryl, a mechanical engineer and active ASHRAE member, they have two children Madison and William.

1993 - 94

President	Don Snider, Coldstream Products of Canada
Pres. Elect	John Clancy, Engineered Air
Vice President	Bert Phillips, Unies Ltd.
Secretary	Garth Evans, Engineered Air
Treasurer	Ismael Sanchez, Scouten Mitchell Sigurdson
Governors	Robert McDowall, University of Manitoba Robert Bisson, Scouten Mitchell Sigurdson Ken Webb, Red River Community College
Past President	Tim McGinn, Scouten Mitchell Sigurdson

HIGHLIGHTS

Committee Chairman were:

Education	Bill DeGagne
Program	Bert Phillips & Robert Bisson
Membership Promotion	Joyce Sim
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Historian	Dieter Bartel
Special Events	Gary Bailey
Accommodations	Dave McNeil
Newsletter	Bert Phillips
Government Affairs	John Brighty

Meeting location was held at the Viscount Gort Hotel, with annual full membership dues at \$120, including meals. Basic membership dues were \$50, which included one meal. Meal costs were \$20, including taxes and gratuity.

There were 79 paid local members and 17 student members, including 12 new members. The number of area assigned members was 172. The average dinner meeting attendance was 45.

The October 14th dinner meeting was designated as Students, Past Presidents and Membership night. Robert McDowall was one of the speakers, presenting an update on ASHRAE Standard 62-89 Ventilation for Acceptable Indoor Air Quality and how it differs from the earlier version 62-1981. Bert Phillips presented the application of air-to-air heat recovery as an economical method of getting buildings designed to 62-1981 to meet 62-1989.

Prior to the November 18th dinner meeting, the Refrigeration Committee put on a CFC Management Update afternoon seminar attended by 45 people and featured the following speakers:

- Bob Anderson, Co-ordinator, Ozone Depleting Act, Manitoba Environment, discussed new revisions to the Act which rules against topping up systems without leak testing, and regulation of the sale of refrigeration components such as filter driers and compressors;
- Chris Szunyog, Inter City Products Corporation, discussed how his company's policies and strategies constantly evolve with the CFC issue;
- Bob Tarlton, Allied Chemicals Ltd., says alternate refrigerants have been developed for most refrigerants. With the success in developing replacements for R-12 and R-502, he warned that government regulators would now focus on R-22;
- Craig Owens, The Codville Co., discussed their specifications for the proper installation of refrigeration equipment and how they minimize the risk of refrigerant leaks. In older stores, a wait and see strategy was being used.

The after dinner speaker was Larry Proust, Branch Manager, Cimco Refrigeration, who presented a contractor's perspective of CFC replacement.

On December 16th, Don Figley, P.Eng., Ph.D., Director of the Science Building Division, Saskatchewan Research Council, presented An Engineering Approach to Indoor Air Quality. His presentation focused on major engineering concepts to be considered when developing designs or investigating buildings with air quality problems. A number of case studies of Indoor Air Quality investigations were presented.

The cribbage tournament, organized by Garry Bailey, had a record 20 participants. First place was shared by Dan Dejong, Don Snider and Jean Chaput.

On January 13th, 1994, Tom Tamblyn, P.Eng., President, Tescor, a Toronto based energy service company (ESCO) and president of the Canadian Association of Energy Service Companies (CAESCO) spoke on energy performance contracting and third party financing of energy management in facilities.

Garry Bolton, P.Eng., principal at Scouten Mitchell Sigurdson & Associates, was the speaker for the February 10th dinner meeting. His topic was "Smoke Dispersal in Gaming Areas". His presentation provided an overview of the design of the positive displacement ventilation systems used for the Club Regent and McPhillips Street Station projects.

A guided tour of the renovated Parks Canada Lab was featured at the March 10th meeting. George Currie, G.H. Currie & Associates, put on a short presentation describing the facility and its HVAC systems prior to the tour.

The theme for the April 14th dinner meeting was Noise Control and Vibration Isolation. For the technical session prior to the meeting, Kevin Shankowsky, KM Engineered Products, introduced Tony Mastriani, Factory representative of Kinetics Noise Control, Dublin, Ohio. Tony presented an overview of the ASHRAE Vibration Isolation Selection Guide and its advantages over other methods for selecting vibration isolation systems.

Filling in for Neil Popplewell, Peter Stumpf, University of Manitoba, presented the analysis and results of three case studies, completed by students of the Noise & Vibration course. These projects included aspects in pump and chiller vibration, mechanical room noise control and room acoustics.

The Region XI CRC was held in Edmonton, Alberta, and the Manitoba Chapter was represented by Bert Phillips, Delegate, and Bill DeGagne, Alternate. Other attendees included Ken Sarson (Membership), and Robert Bisson. Robert McDowall continued to serve as Regional Vice President for Education and Neil Childs has stayed on as Regional Historian.

The Chapter Annual Meeting was held on May 26th on the Paddlewheel Queen. The new Board of Governors and Committee Chairs were introduced.

The Manitoba Chapter experienced many changes throughout the year. A combination of job changes, transfers and relocations affected most committees and three of the Chapter officers' positions:

- Ismael Sanchez, Treasurer, returned to El Salvador in January 1994, after three years in Winnipeg. He went on to teach thermodynamics and fluid mechanics in Mechanical Engineering at Universidad Centroamericana, Jose Simeon Canas (UVCA) in San Salvador.
-

- John Clancy, President Elect and Technical, Energy & Government Activities Chair, was transferred to Vancouver.
- Don Snider , President, was started a new job with Engineered Air in Calgary on January 17th. Past President Tim McGinn assumed his duties at that time.

The Manitoba Chapter of the Energy Management Task Force (EMTF) in co-operation with the Building Owners and Managers Association (BOMA), University of Manitoba, Red River Community College, Centra Gas, Manitoba Hydro, and Winnipeg Hydro sponsored an Energy Efficiency in Buildings - Student Competition. Multi-disciplinary teams from University of Manitoba and Red River Community College undertook assessment of selected BOMA buildings, identified energy conservation opportunities and costs and made recommendations as to the most cost effective energy conservation options. Local ASHRAE members provided their assistance by serving as mentors and judges.

The Manitoba Chapter History was completed and was made available for sale in the fall of 1993.

Robert McDowall, P.Eng., MBA, accepted a position on ASHRAE SSPC62, the committee responsible for developing Standard 62, "Ventilation for Acceptable Air Quality". Robert was Canada's only representative on SSPC62.

PRESIDENTIAL PROFILE - Don Snider (Not Available)

1994 - 95

President	Bert Phillips, Unies Ltd.
Pres. Elect	Bill DeGagne, Manitoba Education
Vice President	Garth Evans, Engineered Air
Secretary	Reg Quiring, Conviron
Treasurer	Garth Evans, Engineered Air
Governors	Robert McDowall, University of Manitoba Ken Webb, Red River Community College Ray Sheng
Past President	Don Snider, Coldstream Products of Canada

HIGHLIGHTS

Committee Chairman were:

Education	Jim McEwan
Program	Robert Bisson
Membership Promotion	Ken Sarson
Research Promotion	Don Snider
Energy & Technical Activities	Bill DeGagne
Refrigeration	Jason Sorby
Historian	Dieter Bartel
Special Events	Gary Bailley
Accommodations	Dave McNeil
Newsletter	Wayne Carpenter
Government Affairs	John Brighty
Welcoming Committee	Dawn Brigham & Quentin MacCharles

Meeting location was held at the Viscount Gort Hotel, with annual full membership dues at \$130, including meals. Basic membership dues were \$60, which included one meal. Meal costs were \$25, including taxes and gratuity.

The Society area assigned membership was at 163 members, The local Chapter membership was 83 local chapter members, including 5 new members and 11 students members. Average dinner meeting attendance was at 47.

For the first dinner meeting on October 13th, 1994, Bert Phillips, P.Eng., Unies Ltd., presented the interaction between HVAC systems and building envelopes, reviewing factors that lead to interstitial moisture problems, including mechanical system design and operation, and discussed potential solutions.

The November 10th meeting was designated Refrigeration and Past Presidents Night. Seventeen ASHRAE Manitoba Past Presidents attended the meeting. The technical session before dinner featured Brian Webb, Envirothermics Inc., who presented "Design Considerations for Refrigeration & Air Conditioning in the 1990's". Selected topics included floating head pressure control, multiple fan cycling of condensors, and balanced port thermostatic expansion valves. Brian was a member of Technical Committees 8.4, 10.2 and 10.9 and was also past Regional Vice Chair of Refrigeration for Region XI.

For the after dinner presentation, Dave Gardner, P.E., the Regional Vice Chair for Refrigeration from Puget Sound, presented a short history of refrigeration from the first uses of ice to the current technology of pre-chilled martinis.

The December 15 meeting featured Harry Wiber, P. Eng., Principal of Hemisphere Engineering Inc., who presented an overview of the development of the Federal Laboratories under construction. He discussed the design considerations for the complex HVAC and control systems to achieve goals such as the levels of containment required within the building. Ron Sharpe talked about the control aspects of the project. Harry is a Past President for the Northern Alberta Chapter and a former member of the technical committee for Duct Design and Air Distribution.

The December meeting also featured the cribbage tournament with 20 participants. Robert Thain was the first place winner, Denton Vandersteen was awarded second place and Neil Childs with third place.

On January 12th, Harry Wiebe, Department of Labour, Office of the Fire Commissioner, presented the changes in the Manitoba Building Codes and how it would affect the building industry for the technical session. The after dinner speaker was Vijay Sankar, Foretell Technologies, who provided an overview and on-line demonstration of the Internet and how it could assist the users in accessing relevant information around the world. Searching for a relevant site, Vijay found a picture of an exploding Barb-Q which drew a good laugh from the crowd.

An ASHRAE Research raffle draw prize for a return plane ticket along with \$300 cash to attend the Chicago Winter ASHRAE meeting/ARI show was awarded on January 13th to Dale Cotterell of Refrigerative Supply.

February 16th was designated as Indoor Air Quality night. For the technical session, Robert McDowall, Assistant Director of Physical Plant, University of Manitoba, reviewed the proposed format for Standard 62 Ventilation for Acceptable Indoor Air Quality. Of particular interest was the expected change to a ventilation rate determined by both space and occupants and considerable more content on the design, operation and maintenance of mechanical systems. Robert was the sole Canadian member of the Standard Revision Committee.

The after dinner speaker featured John Elias, Senior Occupational Hygienist at the Department of Occupational Environmental Medicine, Health Sciences Centre, presented his experiences, advice and cautions of Indoor Air Quality from an occupational health perspective. His presentation focused on the large variations in people and how they react differently to IAQ issues.

On March 16th, Ken Klassen, Manitoba Energy & Mines, presented an update on the proposed National Energy Codes for Buildings and Houses. Ken was a member of the Standing Committee on Energy Conservation in Buildings, which is drafting the Energy

Codes. Ken was also the chair of the Manitoba Energy Code Task Group which was addressing how the Energy Codes were to be implemented in Manitoba.

Jim Shuturma, C.E.T., Service Manager at CML Northern Blower, was designated as the A.M.C.A. representative for the April 20th dinner meeting. He reviewed typical fan applications and losses due to system effect when proper installation practices are disregarded. Jim also spoke on how fans are tested and rated and what effect the system and its connections has on a fan's performance.

The annual meeting on May 18th was part of a special evening for members and significant others at the Legislative Building. The event celebrated the 100th anniversary of ASHRAE and also the Province of Manitoba's 125th anniversary. A representative of Travel Manitoba and Todd MicLash, Facility Manager of the Legislative Building, provided a tour of the building's main features. One of the highlights was the climb up a spiral staircase to the Golden Boy. The group then proceeded to the Winnipeg Art Gallery for a special dinner and announcement of the new Board of Governors.

Bill DeGagne, Delegate, and Jim McEwan, Alternate, represented the Chapter at the joint Region X and Region XI CRC, held in San Jose, California. Robert McDowall was the Region XI RVC Chapter Program, Dieter Bartel was RVC Membership and Neil Childs was Regional Historian.

This year, sponsors were obtained to help cover the costs of publishing the Buffalo Tales. The sponsors were Engineered Air (October), Envirothermics Inc. (November), Hussman (December), Hydron-Aire Ltd. (January), and Refrigerative Supply (February).

The Buffalo Tales also started two sections entitled "Player Moves", highlighting changes in members employment, and "First Round Picks", announcing the University of Manitoba and Red River Community College student members that will be or have recently graduated, and looking for employment in the industry.

PRESIDENTIAL PROFILE - Bert Phillips, P. Eng.

Bert was the second of six children raised on a family farm near Dauphin. After failing grade one, no one had academic ambitions for him, which helped make his school years a carefree time of life. In 1968, he graduated from high school, kissed his horse good-bye and headed off to university.

"In engineering, you'll never have to write another essay" were the words of wisdom that guided him to the correct career choice. In 1972 he graduated with a Bachelor of

Agricultural Engineering from the University of Manitoba and bought his first four motorcycles.

Not ready for a real job, he took a research position at the University making natural gas from pig manure. Next was a stint with Cuso in Nigeria; then two years as Town Engineer in Dauphin; a tour of Central America and the Caribbean on a Honda; back to the University to research renewable fuel sources, and; finally, six years after graduation, he settled at UNIES Ltd. where he has been involved contract research, technical writing and mechanical system design. He returned to school, part time, in 1979 and obtained an MBA in 1983.

Bert joined ASHRAE as a Member in 1984, began regularly attending the summer and winter society meetings in 1987. He has held various offices on several Technical and Standards Committees. He joined the Manitoba Chapter in 1990, served as Program Co-Chair in 1991 to 1993, Vice President in 1993-94, President in 1994-95, Chair of Research Promotion in 1995-96 and was editor of Buffalo Tales, the chapter newsletter for several years.

Bert joined ASHRAE for the learning but has found the contacts and friendships made through active participation in ASHRAE the greatest benefit.

1995 - 96

President	Bill DeGagne, Manitoba Education
Pres. Elect	Jim McEwan, G.H. Currie
Vice President	Robert Bisson, Manitoba Government Services
Secretary	Sharon Sankar, Foretell Technologies
Treasurer	Quentin MacCharles, Airmaster Sales Ltd.
Governors	Robert McDowall, University of Manitoba Denton Vandersteen, Manitoba Hydro Armand Lafreniere, Air Movement & Mechanical Services
Past President	Bert Phillips, Unies Ltd.

HIGHLIGHTS

Committee Chairman were:

Education	Jim McEwan
Program	Wayne Carpenter & Garth Evans
Membership Promotion	Dawn Brigham
Research Promotion	Bert Phillips
Technical, Energy & Government Activities	John Brighty
Refrigeration	Jason Sorby
Historian	Robert Bisson
Special Events	Brian Webb
Accommodations	Dave McNeil
Newsletter	Bert Phillips

Meeting location was held at the Viscount Gort Hotel, with annual full membership dues at \$130, including meals. Basic membership dues were \$60, which included one meal. Meal costs were \$20, including taxes and gratuity.

The Society area assigned membership was at 174 members, The local Chapter membership was 104 local chapter members, including 19 new members and 16 students members. Wayne Carpenter and Garth Evans, Program co-chairs, drew an average of 58 attendees at the dinner meetings.

The theme for the year, as set by Bill DeGagne, was "Change". The industry, organizations, training institutions, governments and associations are going through some major and rapid transformations. We must keep abreast of these transitions and keep them in focus and position ourselves in order to survive.

Ray Scouten, P.Eng., of Scouten Mitchell Sigurdson & Associates was the guest speaker for the October 12th dinner meeting. Ray, having been active as a design engineer in the Manitoba area for over 40 years, presented his wealth of experience in the Progress and Changes in the Manitoba HVAC Industry. Ray said that the biggest change has been in the methods and speed of communication.

On November 9th, Society President Richard Hayter, PhD., P.E., helped celebrate the Manitoba Chapter's 60th anniversary. President Hayter presented changes that the HVAC&R industry can expect in the future. See Chapter 3 for further details on the 60th anniversary.

On December 14th, Joe Lucas, M.C.W. Consultants Inc., presented the Energy Performance Contract project at the University of Manitoba. The challenge was to develop a successful and economically viable program involving 5 million square feet of space spread over three campuses. Peter Webinger won first prize at the cribbage tournament that night.

On January 11th 1996, Henry Bergman, Sales and Marketing Director of Tri-Med Environmental Research, Carmel, Indiana, presented "The Use of Ozone Treatment for the treatment and reduction of harmful airborne odours, gases and volatile organic compounds.

On February 15th, the Refrigeration seminar and night, organized by Jason Sorby and Brian Webb, had over 80 people attend. Selected topics in Ice Rink Design and Operation were presented:

- Jim Mensah, P.Eng., ASME Engineering Ltd., presented an overview of a typical rink mechanical system from the basic thermodynamic cycle to controls and layout. Jim also discussed heat recovery and how it had been implemented in designs.
- Barney Bjarnason, retired from Manitoba Hydro, has extensive experience in ice rink energy audits, demand billing and heat recovery. He reviewed Manitoba Hydro's billing methods and how heat recovery can reduce rink operating costs.
- Greg Jorgensen, P.Eng., Creation Engineering International, was involved in the design of the Swan Lake Recreation Centre. Greg discussed the modular heat pump units used for this design, the use of cold storage buffers under the ice sheets, winter free brine cooling and large versus modular ice plants.
- Denton Vandersteen, P.Eng., mechanical systems engineer with Manitoba Hydro, discussed arena energy consumption, focusing on the components that consume the largest amounts of electricity. Denton reviewed the Canadian Electrical Association's study to save electrical consumption in ice rinks.

The March 14th meeting featured two local members. Bert Phillips, P.Eng., of Unies Ltd., reviewed ideas and information from the ASHRAE Winter Meeting on the link between human health and carbon dioxide levels and on using CO₂ as a diagnostic tool in HVAC Systems.

Robert McDowall, P. Eng., University of Manitoba, discussed Standard and Code Writing Experience on ASHRAE Standard 62. The Standard 62, Ventilation for Acceptable Indoor Air Quality, will come out as Code language which severely limits scope in some ways but potentially adds more teeth to the requirements.

Luc Mandeville, put on a dynamic presentation on Direct Contact Water Heating in Buildings for the April 11th dinner meeting. Luc "pioneered" the use of direct contact water heating for the industrial and process markets, and presented the application of this technology for building heating.

The May Annual General Meeting and wind-up was held on May 16th at the Celebrations Dinner Theater, International Inn. The show was the "Impossible Mission".

This was the year that Research Promotion Chair Bert Phillips was designated as "Goal Buster", reaching a High Five above goal of \$6,066. Bert was also successful in securing a three year commitment from Manitoba Hydro to ASHRAE Research. One approach that Bert used was the recognition of donors through an insert in the Buffalo Tales.

A milestone was achieved for 25% of the graduating student members obtaining full time employment in the industry.

The Roster format was changed in 1996 to a professionally bound booklet. An Industry Roster with business card ads helped cover the printing costs.

Sponsors for the Buffalo Tales were Enersol Distributors (October), Midwest Engineering (November), Envirothermics Inc. (December), D.A. McLuckie Agencies Inc. (January), and Lennox Industries Inc. (April).

At the 1996 CRC in Coeur d'Alene, Idaho, hosted by Inland Empire, the Chapter nominated Neil Childs for the Regional Award of Merit and Robert McDowall for the Director and Regional Chair (DRC). Robert McDowall was the Region XI RVC Chapter Program, Bill DeGagne took over as RVC Membership and Neil Childs was Regional Historian & Historical Society Committee. Tim McGinn, a Manitoba Chapter past president, became RVC Education.

The history write-up of the Manitoba Legislative Building Mechanical Systems, prepared by Robert Bisson, earned a Gold Ribbon Award for History at the CRC.

Significant business initiatives were undertaken by Chapter members. Serban Radu started his own air balancing company called Airdronics. Garth Evans started his company Midwest Engineering, a manufacturers representative for mechanical and sheet metal products. Jim Mensah, P.Eng., started his own consulting business, ASME Engineering Ltd.

Tim and Cheryl McGinn were establishing themselves in Calgary. Tim was starting up Mechanical Division Manager with Reid Crowther and Cheryl was transferred with Honeywell Calgary Branch.

A number of Chapter members attended a retirement luncheon held on April 12th, for Jim Lear of MCW Consultants Ltd., after more than 20 years of service in the industry.

PRESIDENTIAL PROFILE - Bill DeGagne, P.Eng.

Bill was born in Winnipeg in 1949. After graduation from the University of Manitoba, Mechanical Engineering, in 1977, he moved to Edmonton, Alberta where he worked for Carrier Air Conditioning, the University of Alberta and the Federal Government Department of Public Works. His Edmonton career starting as Sales Engineer and progressing through Energy Analysis, to Mechanical Specialist for PWC.

PWC transferred him back to Winnipeg in 1983 as Project Engineer with the Energy Core Department. He then gained employment as Mechanical/Electrical Engineer with the Department of Education's Public Schools Finance Board between 1986 and 1996. After a one year period with MCW Consultants Ltd., he is now working part time for the Cangene Corporation and operating his own consulting firm, W.C. DeGagne, P. Eng. Consulting Engineer.

Bill has attended the Carrier Air Conditioning Design Course in Syracuse, N.Y.; the Johnson Controls Design Course in Milwaukee, WI; ASME Welding Course and AutoCad Training.

In 1978, Bill joined ASHRAE as an Affiliate Member, advancing to full Member. As well as serving as President in 1995-96, he has also filled the roles as Membership Promotion Chair, TEGA Chair, President Elect, and Region XI RVC Membership Promotion 1997 to 1999.

He lives in Winnipeg with his family of four children: Jean-Paul, Charlie, Maggie and Michael.

1996 - 97

President	Jim McEwan, Smith Carter Architects & Engineers
Pres. Elect	Robert Bisson, Manitoba Government Services
Vice President	Wayne Carpenter, Hydron-Aire Ltd.
Secretary	Sharon Sankar, Foretell Technologies
Treasurer	Quentin MacCharles, Airmaster Sales Ltd.
Governors	Robert McDowall, University of Manitoba Bill DeGagne, Manitoba Education Denton Vandersteen, Manitoba Hydro Dieter Bartel, Centra Gas
Past President	Bill DeGagne, Manitoba Education

HIGHLIGHTS

Committee Chairman were:

Student Activities	Gary Hornby
Program	Wayne Carpenter
Membership Promotion	Denton Vandersteen
Research Promotion	Brian Webb
Technical, Energy & Government Activities	Steve Reaburn
Refrigeration	Jason Sorby
Historian	Robert Bisson
Special Events	John Brighty
Accommodations	Dave McNeil
Newsletter	Bert Phillips

Meeting location was held at the Viscount Gort Hotel, with annual full membership dues at \$145, including meals. Basic membership dues were \$70, which included one meal. Meal costs were \$25, including taxes and gratuity. The Corporate Sponsorship was introduced, consisting of a block of seven guest tickets for dinner meetings plus a subscription to the Chapter newsletter for \$175.

There were 83 local chapter members plus 10 student members. The Chapter received 10 new members plus 7 Corporate Sponsors. The average dinner meeting attendance was at 49.

The annual ASHRAE/M.C.A.M. golf tournament was held on August 22nd at the Breezy Bend Golf Country Club. One hundred sixty golfers took part, raising over \$500 for ASHRAE Research. Organizers were Les Howard and Don Bruce.

Don McInroy, BBA, the Industry Product Manager for Security Chimneys International Ltd., presented "Chimney Design" at the October 10th dinner meeting. Don gave an informative talk on today's standards as they applied to "Industrial" chimney applications. Other topics of discussion were design layout and sizing.

The November 14th dinner meeting was designated as Past Presidents', Research Promotion and Students' night. Dave Terriff, M.B.A., P.Eng., Marketing Manager, Unisorb Canada Ltd. presented "Design Consideration for Air Purification Systems - Protecting Sensitive Electronic Equipment in Contaminated Environments". This presentation considered ISA Standards, contaminant identification, room pressurization considerations.

On December 12th, Jo-Anne McDowall, MBA, gave an entertaining presentation on communication skills, specially listening to what your clients say they want and then choosing the right communication techniques to tell them how you can meet their needs. Jo-Anne teaches Marketing at the University of Manitoba and works as a Proposal Development and Communication Specialist with MTS. The cribbage tournament, organized by John Brighty, followed the presentation.

On January 16th, 1997, Lance Laufer, Canadian Sales Manager for Climate Master, presented Water Source Heat Pumps applications. Lance is President of the Canadian Earth Energy Association and a trainer for the International Ground Source Heat Pump Association.

The Refrigeration seminar, held on February 13th, had 40 attendees and covered selected topics in dehumidification. Presenting were:

- Reinhold Kettler, P.Eng., President of Hudson Industrial Consulting and Chairman of Dectron Inc., Montreal, discussed the basics of mechanical dehumidification, ice rink dehumidification and condensation control and indoor pool design and dehumidification.
- Bob Roe, President of Sertech Air, Vancouver, discussed dessicant dehumidification and low temperature dehumidification.

For the after dinner talk, Brian Webb, President of Envirothermics Inc., gave an overview of topical refrigeration subjects illustrating how ASHRAE addresses these with funding and technical support at the Research and Development level.

On March 13th, Brian Monk, P.Eng., Vice President Marketing, Circul-Aire, presented Gas

Phase Air Filtration for compliance with Standard 62 using the IAQ procedure. It covered the requirements of using this procedure, the information required, and described several projects where this procedure was successfully applied.

The speaker for the April 10th dinner meeting was David Bright, Sales Manager for Thermogenics/Volcano Boilers, who spoke on the "Application & Design of Low Water Content Boilers".

The ASHRAE Manitoba Chapter, co-sponsored by the Manitoba Energy Management Task Force, organized a two day Controls Seminar and Trade Show on May 27th & 28th, 1997.

On the first day, the topics were more general in nature, with the sessions and presenters as follows:

- Robert McDowall, University of Manitoba presented an introductory session on HVAC Controls: How do they work from components to systems? What is now available, performance? Strategies for energy savings and good indoor air quality.
- Elmer Guest, Landis & Staefa, Ltd., presented an introductory session on DDC Controls: What are they and how do they work? What are their advantages? DDC Control strategies.
- Michael Ferley, Controls Engineer with the University of Manitoba, presented an owner's perspective of purchasing and operating the latest DDC technologies.

The second day was more involved, dealing with building automation systems, communication standards and DDC specifications.

- Grant Wichenko, P.Eng., Appin Associates, presented an introduction to Building Automation Systems. He touched on the BACnet and LonMark communication standards.
 - Gideon Shavit, Ph.D., Chief Engineering Fellow, Honeywell Home & Building Control, Arlington Heights, Illinois, presented "Open Systems for Building Automation and Control". Gideon spoke on the importance of Open Systems from a customer perspective, implications of emerging Standards such as BACnet, and future directions in Open System technology.
 - Terry Hoffman, Global Product Manager for Johnson Controls, Milwaukee, continued with Open Systems, presenting the LonMark communication protocol. Terry is a member of the LonMark Industry Advisory Council and Systems Integration Task Group.
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- Clair Jenkins, President of Alerton Technologies Inc., presented large scale implementation of BACnet such as the 450 Golden Gate BACnet demonstration project.
- Grant Wichenko returned to present the work of ASHRAE GPC 13P, a committee responsible for preparing a guideline specification for DDC systems. Grant is a member of this committee.

Six exhibitors had set up displays at the Trade Show, held on the second day: Alerton Technologies Inc., Control Systems Engineering (Delta Controls), Industrial Technology Centre, Johnson Controls, Landis & Staefa and the Energy Management Task Force.

The May 15th General Meeting and Wind-up was held at Planetarium, jointly with members from MCAM. Dinner has held at the Spaghetti Factory. The new Board of Governors and Committee Chairs were announced.

Sponsors for the Buffalo Tales were Venmar Ventilation Inc. (October), and Lennox Industries Inc. (November).

Spring flooding dampened preparation for Regina 1997 Region XI C.R.C. from May 7th to 10th, including dislocation of Membership Chair, Denton Vandersteen. The Chapter was represented by Robert Bisson (Delegate) and Wayne Carpenter (Alternate). Robert McDowall was the Region XI RVC Chapter Program; Bill DeGagne was RVC Membership and Neil Childs was Regional Historian

Neil Childs' retirement was held on September 12th at the Breezy bend Golf Course Country Club. Neil was employed by ITT Fluid Products Canada for 16 years as Area Manager for Manitoba, Saskatchewan and Northwestern Ontario.

Significant industry events included the merger of mechanical consulting firm G.H. Currie & Associates with Smith Carter Architects & Engineers.

PRESIDENTIAL PROFILE - James McEwan

Jim was born in St. Boniface in 1950. He graduated from Elmwood High School in 1968. After graduating from University of Manitoba with Bachelor of Arts in 1972, Jim went to obtain his Diploma in Mechanical Systems Drafting at the Red River Community College in 1974.

Jim joined G. H. Currie & Associates in June of 1974. as a junior draftsman. Over time, he developed into an HVAC systems designer for projects such as laboratories, schools, universities, offices, industrial, commercial and residential projects. In 1996, G. H. Currie & Associates merged with Smith Carter Architects & Engineers Inc. Jim continues to work as an HVAC designer for a variety of projects across Canada. In 1999, Jim became a principal in the firm.

In 1985, Jim joined ASHRAE as an associate member and became a full member in 1997. Serving as President in 1996-97, Jim also served as Student Activities Chair in 1993-94 and 1994-95, and Research Promotion Chair in 1997-98. Jim is also a member of M.A.N.C.E.T.T./C.T.T.A.M. since 1977.

Jim lives in Winnipeg with his wife, Judith, and daughter, Eleanor.

1997 - 98

President	Robert Bisson, Manitoba Government Services
Pres. Elect	Wayne Carpenter, Hydron-Aire Ltd.
Vice President	Jason Sorby, Envirothermics
Secretary	Sharon Sankar, Foretell Technologies
Treasurer	Quentin MacCharles, Airmaster Sales Ltd.
Governors	Armand Lafreniere, Air Movement & Mechanical Services Brian Webb, Envirothermics Dieter Bartel, Scouten Mitchell Sigurdson John Guenther, Nova 3 Engineering
Past President	Jim McEwan, Smith Carter Architects & Engineers

HIGHLIGHTS

Committee Chairman were:

Student Activities	Jason Sorby
Program	John Brighty & Micheal Lavich
Membership Promotion	Denton Vandersteen
Research Promotion	Jim McEwan
Technical, Energy & Government Activities	Steve Reaburn
Refrigeration	Damian Perron
Historian	Robert Bisson
Special Events	Peter Webinger
Accommodations	Dave McNeil
Newsletter	Bert Phillips

Meeting location was held at the Viscount Gort Hotel, with annual full membership dues at \$145, including meals. Basic membership dues were \$70, which included one meal. Meal costs were \$20 for members, \$25 for non-members, including taxes and gratuity. Corporate Sponsor introduction, consisting of a block of seven guest tickets for dinner meetings plus a subscription to the Chapter newsletter for \$175.

Society area assigned membership was at 187; there were 73 local chapter members and 16 student members. The Chapter received 19 new members. The average dinner meeting attendance was at 48.

The Chapter's financial position improved considerably with the success of the Control Seminar in May 1997. Funds raised were partially allocated to setting up bursaries and Research Promotion.

In August, the annual ASHRAE/MCAM Golf Tournament helped raise \$1,116.50 towards ASHRAE Research.

At the October 16th meeting, Robert McDowall, Director and Regional Chair Region XI, presented an update on Standard 62R - Ventilation on Acceptable Indoor Air Quality.

Grant Cherkas of Vipond Fire Protection presented automatic sprinkler protection and clean agent extinguishing systems. This was also Past Presidents night where 13 past presidents attended. Raju Paul, Region XI RVC Technical and Government Affairs, came in from Calgary to address the Chapter.

The December 11th meeting featured a presentation on Financial Planning by Dave Christianson, Principal of Macdonald, Shymko and Co. Ltd. David focused on the Financial Planning Process, how to select a financial planner, the latest in money and markets and financial education options.

Bill DeGagne, Region XI RVC Education, presented the benefits of membership. Past President Pins were presented to Bill DeGagne and Jim McEwan for their recent terms. Ed Turenne won the cribbage tournament, skunking his three opponents.

On January 15th, 1998, Ken Klassen of Manitoba Energy & Mines presented details and an update on the Model National Energy Code for Buildings (NECB). He also introduced a new Federal program which would help Canada take its first steps toward meeting the climate change commitments made in Kyoto, Japan. Funding of \$10 million per year has been allocated for design costs of new commercial and institutional buildings that are at least 25 percent more efficient than the requirements of the recently released NECB.

The February 12th meeting featured the Refrigeration Control Seminar with 60 attendees and a visit from Jim Haberman, Region XI RVC Refrigeration from Portland, Oregon. Peter Johnson, President of Indus Automation Inc., Winnipeg, presented various aspects related to refrigeration control for industrial and commercial refrigeration and air conditioning applications. He covered case studies such as the Fresh Water Institute at the University of Manitoba.

For the evening session, Jim Haberman presented an overview of the CFC issues and Standard 15, where it stands today and measures on how to deal with this issue.

The March 12th dinner meeting featured a tour of the Virology Lab. The tour leaders presented some of the design and operational implications of a world class laboratory.

At the April 15th meeting, Alf Dyck, P.Eng., Application Engineer at E.H. Price Limited, presented "Air Outlet Selection", with special attention paid to performance factors, selection guidelines, outlet description and applications. Alf is a corresponding member of ASHRAE's TC.5 "Room Air Distribution" committee and Chair of ARI "Air Control and Distribution Devices Section".

The General Meeting & Wind-up was held on May 21st, on the Paddlewheel Princess river boat. Jason Sorby handed out two bursaries to Chad Comeault and Jon Kell, students from Red River College. The new Board of Governors and Committee Chairs were introduced.

The John Ross Curling Bonspiel was held on April 4th, 1998, at Calgary. Dieter Bartel, Jim McEwan, Jim Shuturma and Robert McDowall represented the Manitoba Chapter.

Dieter Bartel selected as 99 Region XI CRC General Chair to be hosted in Winnipeg on May 13th to May 15th. The Lombard was selected as the hotel for hosting the CRC.

Jason Sorby, Student Activities Chair, was successful in setting up three bursaries for the University of Manitoba and Red River Community College students, with a total value of \$1,000.

The Manitoba Energy Management Task Force launched their second Student Competition entitled Energy Efficiency in Commercial Buildings. The Manitoba ASHRAE Chapter has offered a sponsorship of \$200. Members also participated as mentors, judges and co-sponsors.

The Region XI CRC was held in Portland, Oregon between May 14th and 16th. Wayne Carpenter was delegate and George Kurowski was alternate. Other Manitoba attendees were Robert McDowall (DRC), Bill DeGagne (RVC Membership), Dieter Bartel (99 CRC General Chair), Scott Friesen (Membership), Robert Bisson (Research Promotion). This was Robert McDowall's first CRC chairing as DRC.

PRESIDENTIAL PROFILE - Robert Bisson, P.Eng.

Robert was born in St. Boniface in 1960. He graduated from St. Boniface College in 1978 before attending the University of Manitoba. He graduated from U of M in 1983 with a Bachelor of Science Degree in Mechanical Engineering.

After graduation, Robert proceeded to Manitoba Energy & Mines for seven years, where he roamed the Manitoba countryside on the "Energy Bus", performing energy audits of industrial, commercial and institutional facilities. In 1991, he joined Scouten Mitchell Sigurdson as a Mechanical Engineer.

In 1994, Robert joined his present employer, Manitoba Government Services, Property Management, as Technical Engineering Officer, where he is responsible for looking after the mechanical systems in the government building portfolio.

Robert is a member of the Association of Professional Engineers of the Province of Manitoba and the Manitoba Energy Management Task Force.

Robert joined ASHRAE in 1988, upgraded to Member in February 1992. He was Technical & Energy Affairs Chair in 1989-91, Governor in 1989-1994, Treasurer in 1992, Program Chair in 1994-95, Vice President in 1995, President-Elect in 1996, Chapter President in 1997, Historian 1995-99 and Research Promotion Chair in 1998.

Robert has also acted as the Chairman for Technical seminar for the 1999 Region XI CRC, Winnipeg.

Robert is married to Linda and lives in St. Vital. They have two children. Robert's other interests include cycling, camping and skiing.
