

Christmas Message from Howard Ferguson

The message of "Peace on Earth and Goodwill to all Men" reflects the hopes and aspirations of people of diverse cultures and religions around the world. The Christmas season is a special time for many of us to reflect on some of these universal values and the increased interdependence of people who share our shrinking globe.

It is a source of satisfaction to realize that the practice of meteorology is not only increasing in importance on a global scale, but also has a solid and long tradition of international co-operation.

Recognition that progress in weather forecasting depended on the international exchange of data resulted in the creation of the International Meteorological Organization in the 1870's (IMO). It was a non-governmental body composed of directors of national meteorological services.

Following the creation of the United Nations in 1945, work commenced on replacing the IMO with an inter-governmental specialized agency of the UN. A seminal meeting to effect this change took place in Toronto just 40 years ago. Sessions of the Technical Commissions and six Regional Commissions adopted 400 resolutions including the establishing of a new World Meteorological Organization (WMO), which finally came into being in 1951.

Canada has been a strong supporter of the IMO and WMO over the years. Like all the other 160 member nations, we have derived more in benefits than we have contributed. Through the WMO's World Weather Watch program, including its extensive communications system, the AES receives a continuous flow of global data which form the basis of our weather analyses and forecasts.

The WMO has an equally important role in coordinating international research. For example, scientists in many countries are currently working on the World Climate Program.

Participating in international programs means we collectively learn more on a wide range of global issues through cost-sharing.

Among the key environmental issues, Canada has taken the lead in the struggle to preserve the stratospheric ozone layer which protects humanity from the harmful effects of ultra-violet rays from the sun. For over two decades AES has provided the home for WMO's world centre for the collection and publication of global ozone data. During the

same period AES scientists have carried out many practical experiments regarding ozone in the atmosphere and this research has been complemented by work at Canadian universities.

The scientific and regulatory expertise developed by our department enabled Canada to host a milestone diplomatic conference last September. Twenty-four countries signed the historic Montreal Protocol, signalling their intentions to reduce emissions of substances which deplete the ozone layer.



Staff members of AES who have had the opportunity to participate directly in WMO activities have found it a gratifying experience. Meteorological Services around the world share common interests in the science and its applications for the betterment of mankind. In all countries the provision of weather warnings and forecasts is seen as a vital public service, helping to prevent loss of life and property caused by tornadoes, hurricanes, floods, droughts and other severe weather events.

One can hope that the global cooperation exemplified by WMO and similar agencies can be extended to other fields of international cooperation and will in part lead to the realization of "Peace on Earth and Goodwill toward all Men."

I would like to wish all AES staff and their families a joyful holiday season and a happy and productive New Year.



AES to Take Leading Role in World Conference

Toronto will be the scene of the World Conference on "The Changing Atmosphere: Implications for Global Security", a major meeting of some 300 experts from around the world to be held between June 27 and 30, 1988.

Taking its cue from the recent United Nations report put out by the Brundtland Commission, the conference will attempt to examine humanity's "Common Future" in the face of such threats as climate change, ozone layer depletion and the destruction of lakes and forests by acid rain.

Based on the views of scientific experts concerning man-made changes in the global atmosphere, the conference will examine the socio-economic impacts of those changes in such sectors as energy development, water resource management and food production. Prospects for adapting to or mitigating these impacts will be evaluated and recommendations will be made for national and international action.

The meeting will be held at the Toronto Conference Centre and will be hosted by our Minister, the Hon. Tom McMillan, in association with several of his cabinet colleagues. The conference chairman will be Stephen Lewis, Canada's ambassador to the United Nations. AES is playing a lead role in organizing the event.

ADMA Howard Ferguson is conference director and the conference secretariat, located at AES Downsview is headed up by Gordon McKay, former Director of Climate Applications in the Canadian Climate Centre. Several AES staff have already been seconded to the secretariat on a full or part-time basis. Many others will have a role to play in organizing and participating in the conference.

In bringing together some of the world's leading decision-makers, economic planners and scientists from many disciplines, the conference promises to be one of the major departmental events of 1988.

AES Scientist Bears Olympic Flame

Doug Blakey, a computer scientist working with Central Services Directorate, AES Downsview, will be carrying the Olympic torch within the next few days. He was chosen out of six million Canadian applicants to carry the flame which began its journey in Athens, Greece in November.

Mr. Blakey, a running enthusiast, who runs 25 miles a week and often works out in the grounds near the AES building, will bear the torch for one kilometre on a stretch of highway near Welland, Ontario on December 22. He will be just one of 6,000 Canadian torchbearers.

As far as he knows, he is the only AES person to be chosen for this honor. "Unfortunately", says Doug "I probably won't make it to Calgary for the Olympics".

Three Met Techs Receive Suggestion Awards

Three AES employees have received Suggestion Award Certificates, congratulatory letters and cheques under the departmental Suggestion Award Program.

They are Wayne Davidson, currently serving as a weather observer at Resolute Bay N.W.T.; Adrian Van de Mosselaer who made his suggestion while serving in Alert N.W.T. (He is now working in AES Western Region) and Ian Lougheed, who made his suggestion while serving as OIC at Fort Nelson, B.C.

Joe Boll, director of the Finance and Administration Branch, AES Downsview has written to the three award winners, congratulating them and thanking them for participating in the award program.



It's crisp; brisk wind; low scudding cloud. The rain Has muddied underfoot the red-brown soil. About the DC3 the flight crew toil — They check, they load, confer, then check again Till, satisfied at last, allow us on. We rumble, roar, vibrate, then smoothly lift Whilst mid camp and the hamlet 'neath us drift — We turn o'er patterned pack and they are gone. See last year's berg still grounded in the Bay Then through the overcast and into sun — The fascinating journey has begun Atop the world where mortals seldom stray. The arctic isles, their snowy mantle shed, Stretch out to Mould four hundred miles ahead. Dr. Terry Jolly

Quebec Farmers' Forecasts a Success

In September 1987 AES Quebec Region, through its Weather News, passed on the following information to its weather offices and staff: As you know, last spring we started a new farm weather service. You are largely responsible for making it a prodigious success. In less than two months, 60% of them learned about the improved forecast and 55% were using it regularly.

A majority of farmers listen to you for weather information and more than 40 stations have agreed to broadcast the farm forecast one to four times daily at fixed time, all summer long.

We conducted a survey which resulted in the following interesting facts:

- farmers use the information contained in the farm weather forecasts to plan their daily activities;
- farmers are tuning in to radio stations which are known to broadcast farm weather at pre-determined times;
- farmers consider this information to be of greatest value when available between the hours of 6 and 8 a.m. and noon and 1 p.m.;
- 35 radio stations were polled and they all intend to broadcast the farm forecast again next summer;
- as a result of this service, participating stations received highly favorable comments from the farming community;
- more than half of them had the farm forecast sponsored.

The farm forecast ends on October 15. We already foresee improving it even more next summer in order to meet farmers expectations and answer your needs.

ZEPHYR

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The Hazards of Cold Weather Work

Exposure to extreme cold is one of the major occupational hazards in Canada, and every year a number of cold-related injuries are compensated.

Naturally, the risk of cold stress is most prevalent among outdoor workers, though it is also a hazard for workers in meat packing plants and food storage freezers.

The most serious effect of prolonged exposure to low temperatures is hypothermia where the internal body temperature drops below 35 degrees Celsius. This can lead to exhaustion, drowsiness, severe respiratory and heart failure, coma, and death.

Less serious but more common occupational hazards of cold weather are frostbite, frostnip, and immersion foot.

Frostbite is tissue damage caused by freezing. The skin first appears pale, dull and yellowish and has a prickly or itchy feeling. Then it turns red and swells. The result can be blistering, tissue death and, in severe cases, gangrene. Frostnip is the mildest form of injury from cold exposure, usually affecting the nose, cheeks, fingers, toes, hands or earlobes.

Immersion or trench foot is injury to the toes and skin of the foot due to skin tissue damage. This happens when the feet are exposed to wet conditions in nearly freezing temperatures. The feet first become cold, numb and swollen, then turn red and hot. Blisters, open sores, death of the affected tissue, and finally gangrene can develop as a result.

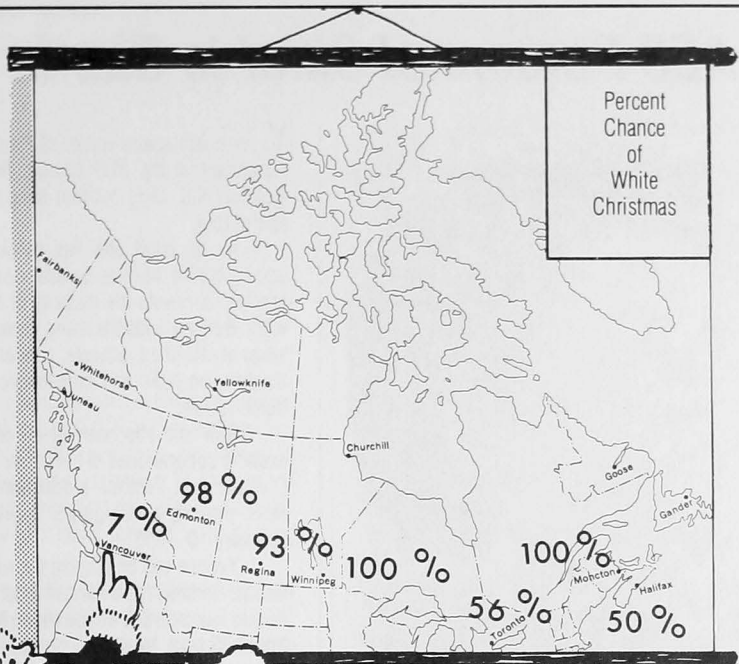
To some extent, our body protects itself when exposed to extremely low temperatures. The body shivers to generate internal heat and the blood vessels to the exposed parts constrict to avoid heat loss, but these natural defense mechanisms will only work up to a certain point.

Working safely in the cold is a matter of forethought and common sense. The best precaution against the cold is to dress properly. Wear warm, layered clothing, which includes a windproof outer garment. Take special care to protect the extremities such as hands and feet. Always wear gloves or mitts and, in extreme conditions, insulated boot, toques or lined hardhats. In addition, make sure all clothing and boots are loose fitting.

Alcohol and nicotine are known to increase susceptibility to cold injury. Older workers and those with circulatory problems are also at greater risk.

Remember, too, that the thermometer only tells part of the story. Always take into account the wind chill factor and the distance from a warm shelter on the jobsite.

From the Canadian Centre for Health and Occupational Safety newsletter.



At a ceremony in Ottawa in September deputy minister Geneviève Ste. Marie awarded AES Meteorological Liaison officer (Met L) Yvon Bernier a Certificate of Merit. The award was given for such reasons as "personal devotion and a sense of responsibility". Outlining Mr. Bernier's contribution in greater detail, Mme. Ste. Marie said that Met L was responsible for preparing appropriate responses to public criticisms of the Minister and the Department. The deputy minister added "Mr. Bernier worked hard to ensure that issues under AES responsibility would be viewed as a positive part of the achievements and image of the Minister and the Department. It was a remarkable contribution." In the picture, left to right are Mme. Ste. Marie; Gordon Shimizu, director general AES Central Services Directorate; Yvon Bernier; Pierre Martel, director general Policy, Planning and Assessment.

AES Personnel Chief to Star in Winter Olympics' Opera



Yvonne White

Yvonne White who works as Personnel Services supervisor at the AES Atlantic Region office in Bedford, N.S. sang her first song in public at the age of four.

As an adult she has pursued music and administrative work as parallel careers. Of course she has to devote the majority of her time to AES work. But she finds the many occasions when she sings at churches, schools, concert halls, musical theatres, on radio and on television a great emotional release.

Now she has been given one of the most exciting opportunities of her career — a part in the Olympic Arts Festival production of *Porgy and Bess* playing at Calgary's Jubilee Auditorium February 10 - 15.

Yvonne will be playing the role of Lily in the George Gershwin opera and in order to have enough time to rehearse she will be taking leave of absence from AES from January 18 on and will return to her job around February 22.

Despite her veteran experience — she has sung solo at concerts in the United States and in Scotland, has presented a CBC Heritage program on the history of Blacks in Nova Scotia, has

performed leading roles in the *Sound of Music* and many other musicals in Toronto, Halifax and elsewhere, Yvonne says she was thrilled to be chosen to play in *Porgy and Bess*. The talent search extended all over North America and her performance was rated the highest.

Yvonne studied voice at the Halifax Conservatory of music. She says she is the youngest of 13 children, has a sister Portia White who is internationally famous as a singer and has a brother who will perform in the chorus of *Porgy and Bess*. Her father was a Baptist Minister.

Yvonne was a former athletics instructor and a champion basketball player. Since straining her back, she has stuck to bowling as her main sport but she will be passionately interested in the Olympic events.

Among other appearances, Yvonne has played Queenie in *Showboat* at the Rebecca Cohn Centre, Halifax and she has featured in *The King and I* in this city's Neptune Theatre; in *Fiddler on the Roof* at the Toronto Free Theatre; in *Oliver* at the Kipawo Arts Centre, Wolfville, N.S. and in *Jesus Christ Superstar*, both at the Neptune Theatre and in Toronto.

AES Mensa Man Pursues Brainy Hobbies

For the past several years Phil Hughes has enjoyed his job as a weather briefer at the Victoria (B.C.) weather office. But what supplies added interest to his life is the fact that he is a member of Mensa, the international organization for people with high IQs.

Mr. Hughes is quick to point out that Mensa members do not make a big thing of their mental abilities; rather they use the organization as a social club on the grounds that brainy people enjoy each others' company and share many interests in common.

Hughes, is a resident of Sidney, B.C. and enjoys attending meetings of the Victoria branch of Mensa which has a membership of about 60. He does not regard himself as a typical member, however. "Many Mensa people enjoy puns and games. I hate puns, dislike games and have absolutely no interest in sports".

On the other hand Hughes has some out of the way hobbies. For example, he loves astronomy and has his own telescope. Even more he enjoys reading about outer space and the riddles of the universe. Another of Hughes' interests is the study

of time in all its aspects, philosophical, scientific, historical. He is a member of the International Society for the Study of Time. Other interests include science fiction, philosophy and experimenting with his home PC computer.

Phil Hughes admits that Mensa affiliation has little to do with his current job. But he recalls the time in 1980 when he undertook the stiff Mensa eligibility test. "I was with AES at the time and had served in some isolated stations such as Baker Lake, Churchill, and The Pas. I needed a boost and Mensa supplied this. In fact it changed my life." He adds that he has met a handful of AES Mensa members. In particular, he recalls Ken McCulloch because he was stationed in Alert and Eureka in the High Arctic and they shared similar experiences of serving in remote areas. Later Phil served on Pacific weather ships.

Hughes now enjoys life in the "balmy" climate of Vancouver Island. He admits when the weather is too favorable he tends to become mentally lethargic. In the bracing climate of the Far North he says he felt much more intellectually alert. As a Mensa man Phil should know!

Phil is modest about his own formal education. He spent two years at Simon Fraser University studying physics and philosophy. He jokes that his wife Ketty, non-Mensa, but with a full-fledged university degree, is the real brains of the family.



Phil Hughes



Lewis Poulin

In the photo, cycling enthusiast, Lewis Poulin of Experimental Studies Division Downsview, discovers the "ultimate destination". While bicycling from Thunder Bay to Sault Ste. Marie, he says, "I encountered Ozone Creek, just east of Nipigon. Instinctively I put on my sunglasses, applied suntan lotion number 15 all over my body, and smiled for the camera."



A DAY IN THE LIFE...

Personnel Officer



Ann Gunther

On certain days Ann Gunther feels a bit like Ann Landers. Sitting in her neat, unforbidding office in the heart of the AES Downsview Building, she gives advice to all comers: from newly hired staff to seasoned managers. She is a personnel officer and her official title is Head, Personnel Operations, Unit II, Human Resources Branch.

As part of her job Ann does everything from staffing positions to participating in studies on equal pay for work of equal value. Nevertheless, it is the need to be an instant problem solver or the ability to weather unexpected management crises that stand out in her mind as being most typical of the job.

"I think I've seen it all", says Ann who has been doing government personnel work for a dozen years. "Then some new twist occurs. You spend three weeks doing the paperwork to rehire a former employee. Then 48 hours before he's due to start, he tells you he's changed his mind and won't be coming in. But that's not the end. Three weeks later he re-applies for the same job all over again!"

Ann has another story about a selection board member who raised Cain to set up a staffing meeting to try and fill an office position in a hurry. After a heavy lunch and during the interviews, the individual fell asleep, interrupting the proceedings with loud snores.

Ann says one of the most stressful situations is trying to resolve interpersonal conflicts between supervisors and employees. She considers it a success when both sides are able to 'talk it out', either separately with her, or better still between themselves.

Ann has a tremendous cure for job stress however. She is a champion swimmer. One of the best swimmers in her age group in Canada she recently came second in two events in the Canadian Master's swimming competition held in Etobicoke, Ontario.

In order to keep in top condition, she swims six days a week at the YMCA, cycles and handles weights. Surprisingly, Ann has only been in competitive swimming for about 14 months. "I hadn't been in a swimming race since I was 14", she says. Now she looks forward to competing internationally.

One of the offshoots of her demanding new hobby is that it keeps her in fine trim for holding down her job. "You have to be able to change gears quickly in this position", she explains, "and keeping fit is a definite plus."

Despite its "one-stop-shopping-centre" atmosphere, Ann's job does have a very definite structured side.

Take Wednesdays, for example. Shortly after she has got to work, arranged a few papers on her desk and taken advantage of the nearness of the AES cafeteria to her office, she attends the regular Contract Review Committee. As its name implies, this group deals with the letting of contracts and ensures that they meet government regulations. The contract meeting may be followed by attendance at a job classification committee meeting. Here Ann takes note of or suggests classification requirements for new or revamped positions.

During the day Ann will likely have to attend or convene a couple of other meetings (she emphasizes that everything is done as a team in the 34-member branch). For instance she sits in as an observer on the Research Scientists' Review Committee. As a matter of course, she attends both formal and informal get togethers with the various unions.

Ann's encounters with both employees and management are often "issue related". By this she means they contain an element of controversy. She cites questions like smoking on the premises or the new pay-parking policy as good examples.

Another aspect of Ann's work is having to explain to many enquirers that promotional opportunities in many AES careers are not unlimited. As an antidote, she tries to show that the actual job an employee holds can be a source of great interest and satisfaction . . . or in some cases, perhaps a transfer could be worked out. In any case Ann is convinced there are and always will be a wide range of worthwhile, even fascinating jobs at AES. "I myself am intrigued by working for a scientific service. Even if there are certain changes in direction in the future, I can't imagine AES not being a prime source of good jobs and interesting careers."

Ann's interest in working for a scientific service may have been sparked by her earlier career as a computer analyst for Transport Canada. It certainly has been assisted by her possessing a Mathematics degree from Queen's University.

When Ann hears herself talking about new

opportunities opening up at AES, she sometimes feels like a super salesperson for the Service. At times she'll go even further and claim that there are exciting opportunities with the fully restructured personnel branch now reporting totally to AES. This allows them to know their "customers" better. As she puts it, personnel services will tend to become more personalized and individually tailored. The introduction of computers in AHRD will simply help the branch keep better records and operate more efficiently. In fact, adds Ann, "one-on-one contact between employees and human resource officers should greatly expand in the future."

Expressing such thoughts about her own and other people's jobs makes Ann feel good about her work and makes her occupation seem very rewarding. She can afford to smile as she arranges some flowers on her desk or adjusts one of her individualized wall prints.

But just at this very moment the phone rings, jolting her back to "reality". An employee is complaining that someone is standing on the toilet seat singing a song. These performances have been going on for days and apparently a whole group of other AES staff are about to "blow their minds".

"It's all in a day's work", shrugs Ann as she strides out to investigate.



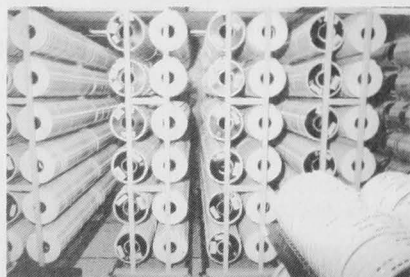
December 19, 1985: Strong winds gusting to 157 km/h struck Newfoundland's southwest coast. All forms of transportation were halted because of winds and blowing snow.



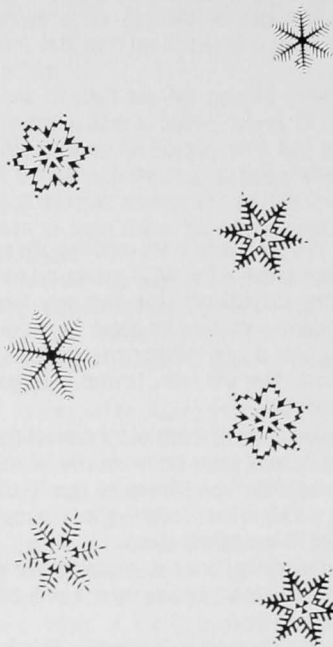
December 21, 1854: From his observatory on Ile Jesus 15 km west of Montréal, Dr. Smallwood recorded a "remarkable" temperature fall from -6.6° at noon on the 21st to -35.0° at 06 hr on the 22nd.



In the picture ADMA Howard Ferguson is seen preparing to throw the first pitch in the softball tournament between the Ontario Ministry of the Environment (MOE) and AES. The place was the Ross Lord Conservation Park beside the AES Downsview Headquarters building and the occasion was the United Way campaign Awareness Day on October 1. The MOE team won by 23 runs to 20. Total amount raised by AES in the United Way campaign in Metropolitan Toronto so far this year is \$37,500.00 which is 98% of the targeted amount.



What are they? These are some of the 9,999 tapes stored at the back of the AES Downsview computer room which contain the complete AES climate archives. Interestingly enough, the room where they are kept has a climatically controlled environment! Photo: Bill Kiely.



Dear Meteorologist:

Each year Environment Canada's weather service receives an average of 200,000 written requests for weather information. Some requests are amusing and others quite serious as to deal with health questions, security and safety, the environmental and commercial enterprise. All receive a thoughtful reply.

Here is a collection of letter fragments received by Environment Canada over the years:

- best weather for capturing beluga whales
- climate data to correlate temperature and beer consumption
- weather to prevent mayonnaise in preparation from falling
- wind chill temperature that would freeze the ears of cows
- weather and road conditions at Rankin Inlet
- from the RCMP, was the humidity sufficiently high to cause discomfort serious enough to trigger a murder?
- weather data to explain the death of the caribou herd
- weather conditions that would cause children's seizures
- weather on certain dates during the French Revolution
- ideal weather for Canadian snow geese to mate
- likely weather for an outdoor wedding ceremony
- Mexican tourists looking for summer snow skiing in southern Ontario
- ideal weather for testing new footwear for use on top of the water

Weather Myths — Popular But Wrong!

- Thunderstorms turn milk sour
- Salt water can't freeze
- Lightning never strikes in the same place twice
- A full moon brings frost
- Lightning can't strike indoors
- If you think winters are cold now, you should have been around when I was a kid
- If March comes in like a lion, it will go out like a lamb
- Sometimes it's too cold to snow
- Northern Lights make a noise
- Thunder can be just as dangerous as lightning
- Excessive heat causes lightning
- Rain before 7, clear before 11
- April showers

Historic Reunion of Meteorologists

For the first time in the history of AES, a reunion of a graduating class of meteorologists was held on the weekend of August 28-30, 1987. This marked the occasion of the 25th anniversary of Meteorological Officer Course No. 19 which produced 41 fledging AES forecasters in the spring of 1963. This was the largest graduating class to date and 23 are still working for AES! Three more departed AES to work for other federal government agencies. Others have pursued careers outside the federal bureaucracy. Altogether, 24 of the former graduates came to the reunion, most with their spouses and some even brought along their children. In addition, three former course instructors, Syd Buckler, Howard Ferguson and Rudy Treidl participated in this historic event with their wives.

Fitting to the occasion, the festivities took place in the historic setting of the picturesque 1000 Islands area on the St. Lawrence River at the Glen House resort near Gananoque, Ontario. This location was only 130 km. from RCAF Base Trenton, where the course graduated. Attendees came from as far away as Kelowna, B.C. and Lemont, Pennsylvania. One enthusiast, Dave Woodman, refusing to acknowledge his 25 years of toil with AES, rode his bicycle all the way from Montreal to the resort (260 km.).

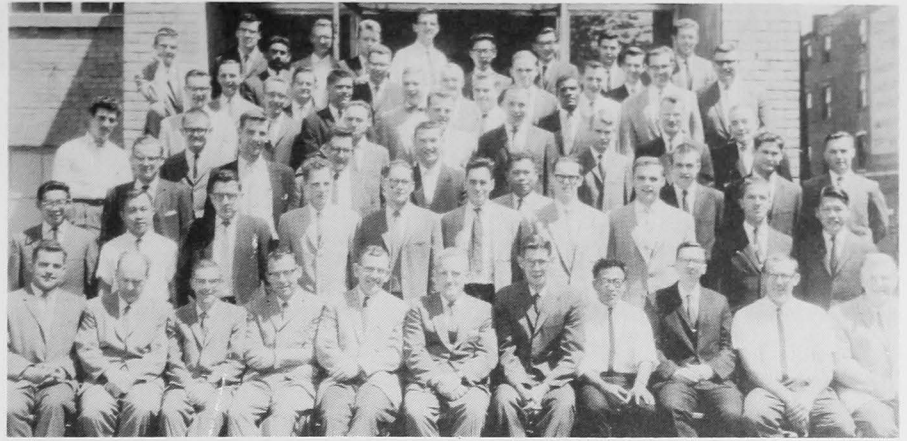
Festivities began in the pouring rain on Friday evening, August 28, with an icebreaker reception where participants were challenged to identify previous course mates without the aid of name tags. After a slow recovery the next morning and a miraculous improvement in the weather, the group set off on a scenic cruise of the 1000 Islands. The climax of the reunion followed in the evening with a banquet where Howard Ferguson presented 19 previous course members with their 25-year, long-service awards. Prior to the banquet, group photos, with and without spouses were taken on the grounds of the resort. Under gorgeous late-summer skies, the reunion wound down on Sunday with a riverside barbecue lunch. Thinking ahead to the future, two of those who attended suggested a retirement reunion in ten years time, to mark 35 years of loyal AES service!



December 24, 1879: Coldest day in Winnipeg's recorded weather history: -47.8° (113 yr).

CORRECTION

The article on Retirement by Syd Buckler in our last issue should have been attributed to *The Forecaster*, the publication of the Meteorological Group of the Professional Institute.



Here are the members of the Meteorological Officers Course No. 19 taken in September 1962.

First Row (Left to Right)

Ed Birch, Syd Buckler, Jim McCulloch, George McPherson, Rudy Triedl, Al Crocker, Howard Ferguson, Russ Yasui, Gordon Van Toen, Oleh Mycyk, Neil Meadows.

Second Row

John Nakamoto, J. C. Y. Fung, Dave Woodman, Ken Hales, Bill Marshall, Tom Rasmussen, Dave Burnett, Ken Daly, H. Michaud, G. N. Y. Marr.

Third Row

Don Rehberg, Bill Pugsley, Bernie Marois, John Elliott, C. E. Guinto, Norm McFarlane, Louis Legal, John Van Es, Elmore Lepischak.

Fourth Row

Scott Klipper, Alex Chisholm, L. C. Tessier, Barry Atkinson, John Kurdyla, Hugh McRuer, G. W. Bochvuskly.

Fifth Row

Dave Forbes, Bob Jones, Barry Wetter, Dan Reiter, Bill Fawcett, Doug Dixon, Leo Corcoran, Bill Thompson, I. H. Bansfield, Herb Glassel, Ralph Harvey.

Sixth Row

Alistair Fraser, Ahmud Ali, Mory Hirt, Don Shantz, Florian Borstmayer.

Seventh Row

Doug Couper, Bill Golding, Dave Clark, Jim Ploc, Tom Nishimura, Ken Oikawa, R. E. Chartrand, B. Poirier, Des O'Neill.

Here are members of the same course years later at their reunion in August 1987.



First Row (Kneeling, Left to Right)

Norm McFarlane, Elmore Lepischak, Bob Jones, Louis Legal, Bill Thompson, Syd Buckler, Mory Hirt.

Second Row

Don Shantz, Dave Woodman, Barry Atkinson, Barry Wetter, Don Rehberg, Hugh McRuer, Alex Chisholm.

Third Row

John Elliott, Alistair Fraser, Howard Ferguson, Dave Forbes, Tom Rasmussen, Rudy Triedl, Ken Daly, Des O'Neill.

Fourth Row

Oleh Mycyk, Neil Meadows, Bill Pugsley, Bernie Marois, Dave Couper.

STAFF CHANGES/CHANGEMENT DE PERSONNEL

Appointments/Promotions Nominations/Avancements

W. R. Hart (MT-6) Meteorologist/Météorologiste, Assistant to Sr. Advisor/Ass. au conseiller sup., LLO, Downsview, Ont.

R. LeCotey (EG-5) OIC/Responsable, WS2/SM2, Fort Smith, N.W.T./T.N.-O.

R. Rowson (EG-7) Shift Super./Surveillant de quart, Vancouver, B.C./C.-B.

K. Banks (EG-7) Shift Super./Surveillant de quart, Vancouver, B.C./C.-B.

G. Myers (EG-5) Supervisor/Chef de Service, SSD, Vancouver, B.C./C.-B.

C. Howell-Jones (CR-4) Clerk/Commis., PAED, Vancouver, B.C./C.-B.

J. Beaudet (CR-4) Clerk/Commis., QAEW, St-Laurent, Que./Qc

Y. Gervais (EG-6) Pres. Tech./Techn. en prés., WO4/BM4, Val d'Or, Que./Qc

M. Boies (ST-OCE-2) Office Equip. Operator/Préposée au matériel de bureau, QAEM-CMQ, St-Laurent, Que./Qc

C. Ro (PC-2) Physical Sciences/Sciences physiques, ARQM, Downsview, Ont.

M. Watt (EG-6) Sr. Research Technologist/Techn. sup. en recherche, ARQA, Downsview, Ont.

Transfers/Mutations

L. Fehr (EG-2) Met. Tech./Techn. en mét., WS3/SM3, Pincher Creek, Alta./Alb.

T. Hawkins (EG-1) Met. Tech./Techn. en mét., WS3/SM3, Fort Reliance, N.W.T./T.N.-O.

R. Lakeman (EG-4) U/A Tech./Techn. en aér., WS2/SM2, Inuvik, N.W.T./T.N.-O.

P. Petropoulos (EG-2) Met. Tech./Techn. en mét., WS3/SM3, Jasper, Alta./Alb.

S. Payment (EG-3) U/A Tech./Techn. en aér., WS2/SM2, Cambridge Bay, N.W.T./T.N.-O.

V. Quan (CS-2) Programmer/Programmeur, AWSC, Downsview, Ont.

M. Morgau (MT-3) Met. Dev. Level/Niv. perf. mét., PWC/TPC, Vancouver, B.C./C.-B.

E. Lord (MT-5) Meteorologist/Météorologiste, PWC/TPC, Vancouver, B.C./C.-B.

D. Morrison (EG-6) Weather Services Specialist/Spéc. service mét., Victoria, B.C./C.-B.

J. A. Shaw (EG-4) Met. Tech./Techn. en mét., Bedford, N.S./N.-É.

Merry Christmas



Happy New Year

W. T. Gash (EG-1) Met. Tech./Techn. en mét.,
W04/BM4, Gander, Nfld./T.-N.

C. Clark (EG-3) Met. Tech./Techn. en mét.,
W04/BM4, Gander, Nfld./T.-N.

D. Allard (EG-3) Met. Tech./Techn. en mét.,
W04/BM4, Gander, Nfld./T.-N.

**Temporary or Acting Positions/
Postes temporaires ou
intérimaires**

A. Langlais (EG-6) Pres. Tech./Techn. en prés.,
QAEW, Mirabel, Que./Qc

M. Loiseau (MT-5) Deputy Director/Sous-di-
recteur, ARQD, Downsview, Ont.

S. McNair (MT-6) Head, Networks & Surveys
Section/Chef, section réseaux et levés, ARQM,
Downsview, Ont.

W. G. Richards (MT-7) Chief/Chef, SSD, Bedford,
N.S./N.-É.

J. B. Merrick (MT-6) Meteorologist/Météoro-
logue, SSD, Bedford, N.S./N.-É.

A. N. Auclair (RES-2) Research Scientist/Cher-
cheur scientifique, CCAD, Downsview, Ont.

Departures/Départs

L. Létourneau ADMA, Downsview, Ont., to/au
CICS, Ottawa, Ont.

P. Clarabut Data Acquisition/Acquisition des
données, Vancouver, B.C./C.-B.

G. Jacob A/APPA, Hull, Que./Qc. to/à C & P
Planning/Planification C & P

M. Lamontagne QAEP, St-Laurent, Que./Qc to/à
Revenue Taxation/Revenu Impôt

**Leave of Absence/Congés
autorisés**

S. J. Milburn LLO/ADMA, Downsview, Ont.

Secondment/Détachements

B. Milo APDG, Hull, Que./Qc. to/à PAED — MOP

Retirements/Retraites

D. L'Hirondelle W04/BM4, Victoria, B.C./C.-B.,
Oct./oct. 1987

J. Michaud QAEM/CMQ, St-Laurent, Que./Qc
Oct./oct. 1987

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