

# *zephyr*

ATMOSPHERIC ENVIRONMENT SERVICE NEWSLETTER

January-February 1991

## AES Goes Green



*Downsview's "recycle Annie" in her Green office.*

If you haven't noticed, things are turning green around here. One day everything was peaceful and the next it seemed as if co-workers joined the garbage police. People glare if you don't use both sides of your paper, and heaven forbid, if you're still using little yellow stickies.

Green is here to stay. The **Go Green at Work** Campaign is part of Environment Canada's efforts to "Green the Department". With the launch of the Green Plan, it is important that other government departments, businesses, labour, non-governmental organizations, and the media be able to look to Environment Canada for leadership in demonstrating how environmentally sound a workplace can be.

While we take steps towards making our work places more environmentally sound, there are many procedures and practices that are already in place. For example, in Downsview, 5 1/2 metric tonnes per month of paper and 2 metric tons per month of cardboard as well as ink and toner cartridges from printers and photocopiers, lead acid batteries and aluminum pop cans are collected for recycling.

Downsview also collects solvents, acids and bases for safe disposal and in case of a spill, has the emergency response cart to ensure safe handling of chemical and other spills.

Downsview purchases only recycled paper, envelopes and other products

from DSS. ADMA's van and the AAM truck are being converted to cleaner and more efficient natural gas and in the cafeteria, 5 cents can be saved on a cup of coffee or tea when you bring your own mug. Also, 86 Downsview employees are polluting less by being involved in 34 carpools.

While these efforts are a step in the right direction, there are many more areas that need work. For example, while 5 1/2 metric tonnes of material is prepared for recycling every month, almost 2/3 is tainted because people are attempting to recycle unrecyclable products. Efforts are underway to educate. The Downsview Green Committee is hard at work trying to implement procedures and change ways of thinking.

**We want to hear what you're doing in your region or office. Sharing information and passing on ideas is all part of the greening process. Please send your brag sheet to Editor, Zephyr, AES, 4905 Dufferin St. Downsview M3H 5T4**



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Think recycling



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## Weather Information Becomes More Accessible

Weather information has become more accessible in some weather stations with the implementation of DND's Image Manager. The computer package, developed by AES's Neil Ibey, a CS on secondment to DND, ingests data from a variety of sources and allows weather personnel to recall and display satellite photos, radar images and weather charts on the display screen.

Previously, most of this information was available only in hard copy. With Image Manager, MTs and EGs can access the information on their screens in regular view, or by zooming, moving around the image, or even by colouring satellite images to enhance certain features. Special linkages allow for the actual monitoring of weather and the composing of weather warnings and forecasts. IM,

in operation since April 1990, is presently in use at approximately one dozen stations across Canada. Since it was developed internally with direct input from weather personnel, the system has to this point been readily accepted by users. Future updates could also be made with ease. A project is presently underway to assess IM's suitability for widespread use across AES.



*Neil Ibey, computer systems analyst at CFFC Trenton, demonstrates some of the capabilities of the system he developed to manage various meteorological products.*

## Project Stratus To Benefit Aviation Forecasters

Cloud cover and visibility play an important role in all aviation activities. The difficulty of producing computer-based cloud cover forecasts for a particular airport has always been a challenge for CMC as well as the regional forecast centres.

In 1989, DOE and various other investors including National Defence, Industry, Science and Technology Canada and Transport Canada invested \$1 million in research on Project STRATUS: an advisory system to diagnose and predict low clouds over airports.

The team working on the project is composed of personnel from Centre de recherche informatique de Montréal (CRIM), Météoglobe Canada and researchers from McGill University and the University of Québec (Montréal). They will work with meteorologist Denis Jacob of the Quebec Weather Centre to deliver the first prototype by summer 1991.

The STRATUS program will provide a realistic diagnosis of the cloud cover in any region where an airport is located. Also, it will simulate the

evolution of weather elements such as temperature, humidity, stability and turbulence and provide useful guidance for cloud cover and ceiling to an aviation forecaster.

All indications suggest Stratus will be a key asset for aviation forecasters. The program's designers (CRIM) are among the finalists in Prix Mica - the annual competition held by the Quebec electronics industry council.



## Executive Exchange Program Links Government and Business



*Ed Caldwell*

It was the opportunity to contribute to the "Canadian response" to climate change that brought Ed Caldwell to AES. As Energy Advisor to the Assistant Deputy Minister, Caldwell provides an industry perspective on energy issues and encourages improved communications with the energy sector.

Caldwell is part of the Business/Government Executive Exchange, a

program sponsored by the Prime Minister of Canada. The program promotes the sharing of knowledge and the opportunity to acquire a new understanding of the similarities and differences between government and business. Participants move temporarily into the other sector to gain better knowledge and appreciation of each other's problems, constraints and directions.

Caldwell initially felt apprehensive about how much he could contribute. He sees a different kind of culture within the government. "Both Esso and the Government are value-driven", he says, "but the values are different." Caldwell sees a lot of potential for employee frustration in the government since few guidelines are available to indicate what you've achieved.

He cites the Green Plan as an example, "...you have to make your own judgment of the extent to which you have produced a viable product. It's not cut and dried like drilling an oil well, yet it's a lot more important than drilling another oil well."

Caldwell recently finished a three year term in Malaysia, but comes to AES from Esso Resources in Calgary, as Manager, Environment Safety and Industrial Health. When his two year term is over in May 1992, he would like to take back to Esso a sense of how decisions are made and who is making those decisions. In the meantime, with AES, Caldwell hopes to use his knowledge of the oil industry to make a difference.

## Negotiating Team Established

A new team has been assembled in Ottawa; the team that will represent Environment Canada in a multi-departmental effort to take Canada through the negotiating process for an international agreement on Climate Change.

Doug Russell has been appointed to head-up the new office. Richard Kinley, formerly Chief of International Policy, CPG and Sid Embree formerly of the Institute for Research on Public Policy have assembled to manage DOE's participation in the negotiations. The Climate Change Convention Negotiations Office (AOCD) will formulate the negotiating positions and work, with a variety of non-government agencies as well as the provinces and territories, towards the development of national consensus around these positions. Preparation of Memoranda to Cabinet and participation in negotiating sessions will also be part of their responsibilities.



*Richard Kinley, Ghyslaine Potvin, Sid Embree and Doug Russell prepare for negotiations*

Acting on the recommendation of the Second World Climate Conference, the UN General Assembly passed a resolution to establish the negotiating process. Four sessions are planned leading up to the expected signing of the convention at the United Nations Conference on Environment and Development in Brazil, in 1992.

Representatives from External Affairs, Energy, Mines and Resources, Forestry Canada, the Department of Finance, industry and non-government organizations will participate on the Environment Canada team at the first negotiating session scheduled for February 4-14 in Washington.



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## Western Region: Fit For Fun

### Western Region Cycles For Cerebral Palsy

Cerebral Palsy was the cause as 16 Western Region cyclists took to their bicycles. For the third year, AES members of the "Broken Sprocket" biking team each tried to log as many kilometers as possible within a 25 minute period. On a stationary bike, the scenery is somewhat unvarying, but untrained legs feel the pain nonetheless. At speeds up to 90 km/hr the AES team managed to place in the top three. AES efforts brought over \$900 to the The Cerebral Palsy Association In Alberta. Great work Western Region! Team members included: Chad Hudson (son of Ed Hudson), Alex Fisher, Rob Honch, Sehra Van Balen, Glen Vickers, Ray Dunscombe (captain), John Alexander, Victor Thomas, Brian Paruk, John Bullas, Bill Thomson (VeloCity rider), Bruno Larochelle, Randy Peterson, Neil Parker, Curt Dixon (co-captain) and Wade Romanko.



*Team captain Ray Dunscombe in action while Laura Dixon tries to beat the heat by waving a piece of cardboard*

### Marathon Champions In Grande Prairie

Western Region is proud to boast of champion relay marathon runners Ken Haley and Brian Mottus, of Grande Prairie Weather Office. Ken and Brian were part of a four person relay team which participated in the 42 km Action Sportswear, Beaverlodge to Grande Prairie, Marathon. Ken completed the entire marathon and placed a respectful 6th of 16 marathoners. Brian and Ken's team won the event with a time of 3:09.43. A personal best for both runners.



### Central Services Salutes Achievements

In November, Citation of Excellence Awards were presented to CSD employees for their dedication and excellence. While those indicated below received actual awards, the Directorate as a whole was praised for continued high performance by DG Phil Aber.

#### Data Acquisition Systems Branch

Roger Van Cauwenberghe  
Bob Owen  
Bob Hall  
Bob Young  
Gerry Klein

#### Ice Branch

Jim Wood  
John Falkingham  
Zavie Miller  
Dave Henderson  
Bruce Ramsay  
Ray Walker

#### Computing and Telecommunications Branch

Gavin O'Hara  
Bob Plaseski  
Mike Minuk

### Thirty-four Years In Regina

We all know consistency is an important factor in weather observing and forecasting. None takes this to heart more keenly than John Mulvenna who has consistently reported to work at the Regina Weather Office for the last 34 years.

While researching precipitation amounts in Regina, Brian Routledge, CCAH, AES HQ noted the official airport observing site had changed location three times since 1937. John Mulvenna was a weather observer at the time of the 1960 relocation and is also on the current staff list.

John did work in Thunder Bay, Ontario for a four year period in the mid-sixties and has taken one or two vacations since. We salute the long service of John Mulvenna.



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## Climate Center Responds To The Green Plan With Restructuring

AES began to see the results of the Green Plan only a few days after its release, as the Canadian Climate Center announced a restructuring designed to help meet its new challenges.

With the release of the Green Plan, the CCC will be entering a new phase in its evolution. The climate change issue has become prominent in the last couple of years and the Green Plan contains a significant number of initiatives for the Climate Centre.

The tasks required would be difficult and in some cases impossible within the existing structure of the CCC, which has remained essentially unchanged since its inception some eleven years ago.

The majority of the 138 employees located in Downsview, Saskatoon and Ottawa will continue to do the same jobs under a new management structure. There will be a number of new activities added to respond to the Green Plan challenge. The clerical and administration staff especially, can look forward to some new opportunities and possibilities for

training and development.

The new CCC will consist of four operating branches reporting to the Director General; Climate Information, Climate Adaptation, Climate Research and Climate Response Strategies. In addition a new Climate Program Liaison and Planning Office will be established to ensure an effective linkage between the CCC and the other organizations involved in the Canadian Climate Program. It is expected that this new organization will be in place prior to April 1, 1991.

## Human vs. Earth

by C. Anker

The Birds are flying;  
The Sky is crying.

The Rivers are running;  
The Factories humming.

The Fish are jumping;  
The Garbage Trucks dumping.

The Animals are being forced to run;  
And the Humans are having fun.

Soon there will no longer be Cockroaches;  
And as that Day approaches.

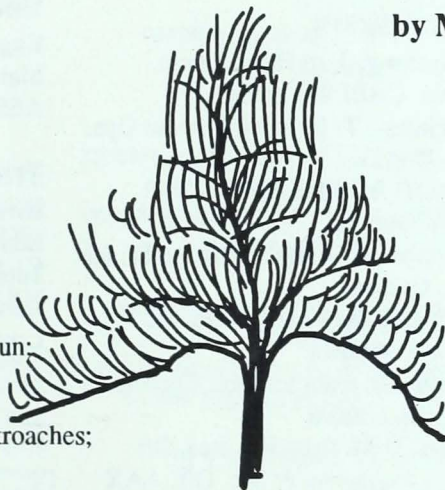
The Birds will be dying;  
The Sky will be frying.

Acid Rain will be drizzling;  
And the Vegetation sizzling.

The Fish will be floating;  
The Oil Tankers bloating.

The Rivers will dry up;  
Oh! Won't we please look up.

And Seriously start thinking;



About the Water we are drinking.

And about the Food we are eating;  
Created by the Land that we are beating.

How will we escape the Pollution we create?  
How will we be able to Resuscitate?

Oh please let us recycle our waste;  
In order to save our Lifecycle. Post Haste!

## The Paper Taper Caper

by Mike Duffy

The problem here we have with waste,  
Is papers dear on which is based,  
The way our minds have grown to think,  
A memo binds when signed in ink.

We need to change our point of view,  
And rearrange the way we do,  
Communications with our peers,  
Reports, summations, gazeteers.

We have to curb our antique ways,  
Of piling blurb on paper trays,  
And do it quick by our machines,  
So we don't lick the evergreens.

We must convince that wasteful styles,  
Like making prints of backed-up files,  
Or starting notes with lines that tell,  
The proper rites to print it well,  
Will quickly make the bush to clear,  
As we forsake our forests dear,

So please let's fix our work set up,  
And leave those sticks all pointing up.



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# On The Move...

## Appointment

**Caldwell, E.** to Energy Advisor  
ADMA

## Assignment

**Bourque, D.** from ACSD to Chief,  
APEC  
**Chagnon, L.** Mgr., Envir. Partners  
Fund, Winnipeg  
**Cotnoir, A.** from ACTPQ Cornwall  
to MT QAES St-Laurent  
**Danks, M.** from shift super. to Chief  
A/MAEO Bedford  
**Dubé, D.** from Duty Fore. Prairie Wx  
Centre to Ice Fore. Ottawa  
**Edisbury, D.** from ST-OCE, QAEM  
St-Laurent  
**Elie, M.** from QAEOI to Weather  
Insp., St-Laurent  
**Embree, S.** to AOCD Ottawa  
**Haché, L.** from Duty Fore. METOC  
Halifax to Ice Fore. Ottawa  
**Héroux, R.** to Instr. ACPTQ  
St-Laurent  
**Horne, K.** from EG Ont. Reg. to EG  
Downsview  
**Kinley, R.** from CPG to AOCD  
Ottawa  
**MacNeil, C.F.** from A/MAEO to  
Chief A/MAEW Bedford  
**Martine, T.** from Health & Welfare  
to Sec. AES CD Ottawa  
**Monette, J.** from ACSL to ADMA  
Downsview  
**Morissette, J.** from MT CMQ to MT  
QAES St-Laurent  
**Richards, W.** from MT to Chief A/  
MAES Bedford  
**Russell, D.** from A/APDG to AOCD  
**Veillette, L.** from Prog. CMC to  
Statistics Canada, Montreal

## Departure

**Hosein, H.** from Head, EG PIA Ont.  
**Mackinnon, S.** from EG Edmonton  
**McCallum, L.** from Head, EG PIA  
Ont.  
**Méthot, A.** from MT Toronto to MT  
QBC

## Lateral Transfer

**Isaacs, D.** from Ice Obs. Toronto to  
Ice Anal. Ottawa  
**Marchand, C.** from MT MAEN  
Gander to MT CMC

## Leave

**Jollet, C.** from QAEC St-Laurent to  
study leave  
**Provost, L.** from QAEMA St-Laurent  
to study leave

## New

**Lund, C.** to recep. clerk Edmonton  
**Sortland, L.** to MT Edmonton

## Passings

**Scarlett, J.H.** formerly Pacific Reg.  
27 years  
**Short, J.** formerly Data Acquis. Ont.  
Reg.

## Promotions

**Armstrong, J.** to Head, Comp.  
Comm. CAEI Winnipeg  
**Carrieres, T.** from Ice Fore. to Ops.  
Dev. Ottawa  
**Chen, T.** from Ice Fore. to Shift  
Super. Ottawa  
**Chénard, L.** from Ice Fore. to Sr. Ice  
Fore. Ottawa  
**Collins, J.** from Ice Anal. to Ice  
Observer Ottawa  
**Crosbie, D.** from Ice Obs. Toronto to  
Ice Anal. Ottawa  
**Davies, D.M.** from Fin. Res. Off.  
ACPA to Accom. & Sec. Off. AAX  
**Dicaire, C.** from Ice Fore. to Sr. Ice  
Fore. Ottawa  
**Gauthier, M. F.** from Ice Fore. to Sr.  
Ice Fore., Ottawa  
**Lavigne, G.L.** from CCAA to Jun.  
Life Cycle Mgr. ACSO  
**McRuer, H.** from Ice Fore. to Shift  
Super. Ottawa  
**Michaud, N.** from Capt. Germany to  
Shift Super. Ottawa  
**Morneau, G.** to MT QAES St-

Laurent

**Nicholas, G.** to Head, Appl. Dev.  
CAEI Winnipeg  
**Petropoulos, P.** from EG Jasper to  
EG Lethbridge  
**Ramsay, B.** from Ice Fore. to Head,  
DASB, Ice Ottawa  
**Robinson, D.** from EG Ft. Reliance  
NWT to EG Cambridge Bay  
**Treloar, N.** to Atmos. Proc. Spec.  
CAES Winnipeg

## Retirement

**Griffin, L.R.** OIC Pincher Creek  
**McDonald, EG** Edmonton  
**Panas, H.** Supt. Gen. Admin,  
Edmonton  
**Petrie, G.** CAEP Winnipeg  
**Saulnier, P.** CM Edmonton  
**Teshier, J.** EG Rocky Mountain  
House

## Secondment

**Eggenberger, J. P.** from Fleet Super.  
Maritime Reg. to Can. Coast Guard,  
AES Liaison Off. Ottawa

## Transfer

**Ewen H.** from EL Saskatoon to El  
Edmonton  
**Jutras, C.** to MT QAEM St-Laurent  
**Landry, C.** from MT CMQ St-  
Laurent to MT BFC Moose Jaw

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Editor: Leslie Buchanan-Jones