Sun shrinks home heating bills

by Mike Walker

"Why are you heating your house today? If it was designed with common sense, the sun would do it for you.

So said Gordon Howell, of the Alberta Research Council's Solar and Wind Energy Research Program Tuesday evening.

Howell was concluding a lecture on "Practical Solar Energy" sponsored by the Boreal Energy sponsored by the Boreal substances like brick, concrete His point was that solar energy is viable for home heating in Alberta right now.

He was not referring to the familiar "active" solar heating systems in many experimental projects. Howell is a proponent of "passive" solar heating, in which sunlight warms the house directly. The house is then prevented from radiating heat back outside.

In contrast, "active" systems require expensive solar collectors and extensive plumbing in each house. Howell claims passive heating can heat homes without the expensive technology of active heating. A passive system might cost much less than \$10,000 while an active

system could cost up to \$40,000.

He says the first concept in passive solar heating is restricting large glass areas to the south wall of the house. Roof overhangs should be designed to shut out the high summer sun but admit the lower winter sun.

Howell claims his second



and water absorb great amounts of stratification is an active of energy when the surrounding system passing through the solar air is warm and radiate heat when the air is cool. Properly passed through a rock bed (15 utilized, Howell says dense substances can store daytime heat Howell) so the rocks will absorb for release at night.

Howell says the sun's shortwave radiation is able to penetrate glass, but longer-wave re-radiated energy is less able to. Thus a "mass-wall" or floor made of concrete or masonry inside the house will store the sun's energy during the day.

Another option is to build a greenhouse on the south side of the house, separated from the house by a mass wall. This has the added benefit of providing a greenhhouse warmed at night by the mass wall that is warming the

Howell says, there are problems associated with passive solar heating, including the possibility of overheating and the more difficult problem of stratification. Because heat rises, the warm air is not circulated somehow, the air at the ceiling will be much warmer than that at the floor.

One solution to the problem

collectors. The heated air is tons is a good size, according to the heat in the same way as a mass wall would. When the heat is needed, air can be drawn through the rocks and, Howell suggests, used to heat the house using existing furnace ducts. The whole system is fan-driven.

The Solar and Wind Energy Research Program is currently setting up a series of ten solar and wind energy monitoring stations around the province. These stations monitor wind speed and direction and solar energy levels in their locations. Howell says the program will lay the groundwork for future solar experimentation in Alberta.

No help for kids

by Amanda LeRougetel

Northern Alberta Children's child and the parent. Hospital Foundation (NACHF).

NACHF, says northern Alberta is the only major population area in Canada which does not have a modern children's hospital.

The NACHF, which was created in 1977, wants to establish a hospital in Alberta geared specifically to the emotional and medical needs of children.

Horsfield says a hospital geared toward adults and their illnesses is not the ideal place for children. Children's medical and emotional needs differ greatly from those of older people, she

specific needs.

would also provide accomoda- tion.

tion for parents while their child The absence of a pediatric is hospitalized. Horsefield says emergency facility for the 370,- this would allow for greater 000 children in northern Alberta communication and would lead is an appalling situation accor- to a better emotional ding to a representative of the relationship between the sick

The NACHF says the Pat Horsefield, a public children's hospital would be a relations representative for the center co-ordinating all pediatric needs in northern Alberta. It would provide not only medical care, but also services such as psychiatric counselling and help with problems such as child battering and child neglect.

So far the NACHF has met with positive response from the community and solid support from many pediatricians. However, further public support is necessary, says Horsefield. Therefore, in conjunction with the Lamda Chi fraternity, the NACHF has set up an information booth in CAB today and Horsefield says a center will tomorrow between 11:00 a.m. attract the pediatric specialists and 2:00 p.m. Information on the necessary to deal with these hospital will be available and students will be able to sign a The children's hospital letter of support for the Founda-

Scholarships cover

Family supported

The Students' Union family. In addition, SUB Theatre

refugee fund.

University, facing an operating budget deficit of 1 million tion" by June 1980 to deal with dollars because of education the University's severe financial funding cutbacks, has decided to dip into its scholarship fund to cover the money shortage.

University president Bill Beckel said the only way for Carleton to survive the year financially is to use money from the scholarship fund, a large savings account used to finance scholarships awarded by the university. If it is used up, said Beckel, Carleton will be the only Ontario university without one. Beckel said the money would probably only be used for one or two months near the end of the fiscal year.

Last month Beckel an-

Refugee Committee is receiving

increasing support throughout

in September to implement a

Students' Union motion to adopt

an Indo-Chinese boat family.

Despite earlier setbacks and

some negative reaction from the

general public, the group now

claims a long list of supportive

groups and individuals on cam-

The committee was formed

the university community.

OTTAWA (CUP) -Carleton remove 50 teaching staff and 100 support staff - "through attridifficulties.

> Beckel says Carleton, like many other Ontario universities, has been forced into a deficit position because the provincial government's funding has been unreasonable in terms of our revenues.'

Carleton's funding grant increased only 3.5 per cent last year while costs jumped 9.5 per

"I'm hoping the government policy will ease and there will be recognition that there has been underfunding and that the universities can't survive without nounced that Carleton hopes to additional funding," Beckel said.

will present the Marx Brothers in

Animal Crackers this Friday,

with all proceeds going to the

port, the committee has collected

only a fraction of its goal of

\$10,000 so far. Although most

fund-raising events are

forthcoming, the refugee fund

now stands at only \$1321

In spite of increasing sup-

Anyone wishing to donate

shortage

Beckel also warned faculty and staff at Carleton that their jobs won't be protected at the expense of the university.

When you're talking about layoffs, you're talking about a financial emergency that could end in bankruptcy. I don't want to get to that stage."

Militant cyclists pedal on

"The bicyclist needs less dangerous situations on the road," says Tom Nilsson, a member of the newly-formed Edmonton Bicycle Commuters.

His sentiments were echoed the group of 25 bicycle enthusiasts who gathered at McKernan School recently to discuss the formation of the first bicycling society in Edmonton.

proposed "The society would seek to clarify the legal status of the bicyclist on the road," says Roger Vick, founder of the group. Nilsson adds that the current Alberta Highway Traffic Act classifies the bicyclist as "... a peson who has all the rights and is subject to all the duties that the driver of a motor vehicle has.

This legal interpretation is unique, specific needs of the which has overseen the activities bicyclist," 'explains Vick. The hierarchy of right-of-way between the cyclist and the pedestrian on the High Level Bridge is a good example of the

plans will include working closely with the Edmonton Police Department and city planners on future bikeways planned for the city. The group would like to lobby with neighbourhood community groups for better cycling routes, improved road conditions, and increased public awareness about bicycle safety.

"This is an activist group only in the sense that we would lobby for more bike routes in the city, better bicycling legislation, and improved standards to designs on bikes," says Tom Nillson. Nillson points out that since automobile safety standards are enforced, cycling

manufacturers must be approached to maintain proper safety standards on bicycles. "Perhaps the formation of an official society would persuade government to listen much more

carefully," says Nillson. Dennis Wighton worked extensively with city planner and the Campus Development Office on constructing the popular and successful 113 St. - University Avenue bikeway. He would like to see the group aim for a bicycle commuter route connecting the west end of the city with the university campus.

He stresses that the already high congestion of bicycle commuters using this route suggests a much-needed feasibility study. A veteran bicycling-reform advocate, Wighton points out that since the first bike route was unduly dangerous to the introduced in 1973, there has bicyclist. "It doesn't meet the never been an organization

of the city on bicycle transportation routes. "And that's what an activist group should do," says Wighton.

On campus, the group would lobby for more bicycle racks and perhaps develop a safer alternative route leading to Michener Park than the lessthan-satisfactory Whitemud Freeway. This winter, the group plans to hold bicycle maintenance clinics and develop bicycle safety programs for youngsters.

"The group largely appeals to the recreational, pragmatic cyclist," says Tom Nillson.

As one member aptly con-cluded, "Organizations are created or formed because of a particular need. The acceptance of the needs of the bicyclist is long overdue."

The bicycle commuters will meet again November 7.



confusion which exists. The Edmonton Bicycle Bell to national board Commuters are currently in their organizational stages but future

"It gives the U of A a strong cils (AOSC) at a national con- voice in terms of the AOSC," she ference in Regina this weekend. says. "It also provides the chance The conference was a joint to really accomplish something

AOSC runs the Canadian University Travel Office Bell will serve as the Alberta (CUTS), which offers cut-rate and British Columbia represent travel services and other benefits

Bell says she may pursue the maintaining contact with other possibility of setting up a AOSC members and attending national speaker's bureau which could provide speakers for

Thursday, October 18, 1979. Page Three.

The latest group to endorse to the fund can mail conthe committee is the university tributions to Room 259D, 62 Computing Society, who plan to Students' Union Building, Unhold a benefit social for-the iversity of Alberta, Edmonton.

Students' Union vp internal feels will be advantageous for the Sharon Bell was appointed to the U of A despite the demands on board of governors of the her time. Association of Students Coun-

meeting of the National Union of in the area of student services. Students (NUS) which the U of A has not joined, and the AOSC which the U of A belongs to.

tative on the nine-member board to students. and will be responsible for regular board meetings.

It's an appointment Bell universities at a low cost.