Aerial Survey Will Reveal Campus ‘Hot Spots’

An aerial, infra-red survey of the entire University campus, carried out this month under the auspices of the Department of Physical Plant, is expected to have important consequences for University energy conservation efforts.

The survey is expected to pinpoint areas on campus where unnecessary heat loss occurs, through poorly insulated steam lines or poorly insulated roofs and provide other information relating to energy waste which might occur.

The survey, conducted by Daedalus Enterprises of Ann Arbor, Michigan, will result in a number of “pictures” which are produced by a process which records on film various levels of infrared energy, emitted by all objects with temperatures above absolute zero. The end product appears to be a cerebral photographic of different colors, but is actually a record of the amount of radiant bands emitted by all objects within the surveyed area.

According to Francine McQuade of the Energy Office, the aerial survey will help establish priorities for the repair of various steam lines and rooftop insulation in various buildings on campus.

Heart Attack Training Set
For University Police Force

All uniformed police officers of the University force will soon receive training in Cardio-Pulmonary Resuscitation, a technique which may help reduce the number of deaths resulting from heart attack.

According to Chief Merle E. Smith, who is organizing the training sessions with the American Heart Association, the technique will be used “at any time there is a clinical death,” when there is either a stoppage of breathing or heartbeat.

The technique, which involves rhythmic pressure on the heart and mouth-to-mouth resuscitation, is taught in a single 8-hour session, and all those who qualify in the technique will be certified by the American Heart Association. Classes are set to begin in June, and an attempt will be made to certify the entire force.

“I want to emphasize,” Smith said, “that a lay person who has not been certified should not attempt to use these techniques. You might not recognize certain symptoms of the victim, and this is dangerous.”

The best thing to do in case of heart attack is to call ext. 7333, and trained personnel will handle the situation. Time is of the essence in such cases, Smith said.

(Administrators—Continued on Page 3)

Dining Services Introduce
Salad Bar, Deli Sandwiches

Where can you find one of the best salad bars you’ve ever seen, make-your-own ice cream sundaes, freshly squeezed orange juice at breakfast, and a sandwich deli bar where you make your own sandwiches? In University dining halls, that’s where!

This past year has seen major improvements in Penn’s dining halls, and the number of diners has been increasing. The reasons probably lie in the dining innovations mentioned above, which were introduced by director Don Jacobs and his staff.

The salad bar includes fresh iceberg lettuce and spinach, carrots, mushrooms, celery, green peppers, and tomatoes, and also features an assortment of “toppers,” including bacon bits, croutons, onions, and a variety of dressings. Contract diners, or those who pay a cash guest rate in any dining hall, can eat to their heart’s content.

The normal range of desserts is offered as a matter of course, but a recent and popular feature is the introduction of self-service hand-dipped ice cream. Brand new self-service beverage dispensers also have been added recently, and they feature Coca-Cola products.

The news at breakfast is a mound of oranges for fresh juice, for those who do not

(Continued on Page 2)

Spring Break Coordination
Nets $18,000 Energy Saving

Some $18,000 was saved as a result of energy conservation efforts during the recent Spring break, according to a study just completed by Francine McQuade and Horace Bomar of the University’s Energy Office.

Savings came through the shutdown of various mechanical systems in some buildings, which was facilitated by the coordination of conservation efforts of the Energy Office, the Department of Physical Plant, and University Building Administrators. Anthony Capuano, of Physical Plant, contacted Building Administrators prior to Spring break, to determine what plans were underway for the use of buildings during the vacation. As a result, some air handling equipment, among other things, was shut off for the duration of the break. Also, a “lights out” program was apparently successful and added to the total savings.

Although similar energy-cost studies were not available last year (they have, in fact, only been initiated through the efforts of the recently-created Energy Office) McQuade


New Building Administrators
End First Year of Operation

The Building Administrators Council is completing its first year of operation, and all signs indicate that this first year has been a rewarding one.

The Council, made up of Building Administrators from each campus building who have overall responsibility for monitoring the general housekeeping and physical plant activities of their building, has met regularly this past year in an effort to improve building

(Savings—Continued on Page 2)
What Can Individuals Do To Help Save Energy?

Take a few minutes to think about the energy use in your work space: the energy that is used for lighting, for heating or air conditioning, for typewriters, copying machines, coffee pots, fans, and other items too numerous to list. All these items contribute to last fiscal year's $9.2 million energy bill. Turning out a light or turning off a typewriter may seem insignificant until you multiply the saving of one energy-conscious user by the savings of many energy-conscious users.

Many energy-aware people wonder why some of our buildings are overheated at certain periods while other areas are too cold. These conditions exist for a variety of reasons including the major problem of old or poorly designed mechanical systems. Although these problems are generally very difficult and expensive to correct, they are being studied and changes are being implemented. Action has already been taken to correct problems in College Hall, Weightman Hall, Dietrich Hall, the Quadrangle Residences and Vance Hall. The process is, however, slow and costly, and it requires some understanding and patience on the part of the occupants.

Lighting

Fluorescent Lights—Turn off if you are out for 15 minutes or more.

Incandescent Lights—Turn off whenever you are not using them.

Identify areas that you feel are overly lighted. (Notify Energy Office.)

Identify areas that use lighting just for "aesthetic" purposes. (Notify Energy Office.)

Research Equipment

Shut off laboratory hoods when not in use whenever possible.

Use distillation units as little as possible.

Don't waste the water.

During the summer, try to schedule use of lab equipment during "off-peak" periods (after 4 P.M. and before 10 A.M.), especially during hot, humid days.

Shut down special environmental rooms when not in use.

Air Conditioning and Miscellaneous Equipment

Utilize blinds to take advantage of heat gain in winter and avoid heat gain in summer.

Keep radiators and vents free from blockage.

Avoid using the "constant cool" or "hi cool" setting on your air conditioner. Try to use "fan only" or "power saver" whenever possible.

Turn off air conditioners and fans when you leave the room, especially at the end of the day.

Keep doors and windows closed between air conditioned and non-air conditioned spaces. Keep exterior doors closed whenever a building is heated or cooled.

Don't turn on equipment (typewriters, copy machines, coffee pots, etc.) until you need it. Turn it off whenever it's not in use.

Try to be particularly conscious of energy use during summer peak periods (10 A.M. to 4 P.M.).

Identify areas that you feel are overlit.

Many of you may have energy-saving ideas that should come to the attention of the Energy Office. Please take the time to write down your ideas (no matter how insignificant they may seem) and send them to your Building Administrator with a copy to the Energy Office.

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Police—Continued from Page 1

Smith said 1 million people each year suffer from heart attack, and of those 650,000 die from the attack; 350,000 people die before they reach the hospital.

Although there is no special equipment used in administering Cardio-Pulmonary Resuscitation, the training sessions do involve work with mannequins, nicknamed Rescue Andy and Rescue Annie.

"Although the American Heart Association has very stringent regulations concerning the certification of personnel in this technique," Smith said, "we are going to attempt to certify the entire force.

Dining—Continued from Page 1

Want frozen orange juice. Eggs are cooked to order and a different breakfast meat is served daily. Remember, this is all available to staff and faculty on a cash basis, too.

Menus are posted daily in all dining halls, and are also recorded on tape for those who call 243-4595. (After June first, dial 243-MENU.)

Other features include the "Sandwich Express" at Hill Hall, which is a full delicatessen sandwich bar, make them the way you like them; "Hamburger Marathon" at 1920 Dining Commons; and a vegetarian menu at Stouffer Dining Commons.


‘Operation ID’ Can Help Protect Valuables

With summer nearly upon us this Bicentennial year, Capt. Jayne Rich of the Department of Safety and Security has offered a number of suggestions for the security-minded.

One way to deter theft and to help in the return of valuables in case theft does occur, is to participate in Operation Identification, a program to engrave and then register valuable items.

Capt. Rich said the Department offers an engraving tool and information about using it; it offers a system to record engraved numbers, which can then be used to identify the owner if the article is lost or stolen, and it offers a decal carrier which would inform potential thieves that Operation Identification is in effect.

This system, Capt. Rich said, is felt to be an effective deterrent to crime. In fact, two typewriters were recently confiscated by Philadelphia police, who noted the engraved numbers, checked the registration system, and returned them to the owner.

"Without this kind of identification, thousands of dollars worth of goods go up for auction at the Police Departments, and the goods cannot be returned to the owners. If we have an engraved number which is registered, and a decal, this at least gives us a chance to return stolen items," Capt. Rich said.

Administrators—Continued from Page 1

The Council serves as an advisory group to the Building Administrators, and has cooperated in energy conservation efforts, established routine procedures for checking all work that is going on in each building, and has published a list of priority telephone numbers to call for services.

One way to prevent crime is to become more security conscious, and the best way to do this is to take advantage of the free security consultations offered by Capt. Rich, who will, upon request, consult with staff, students, or faculty members on matters of security relating to either the home or the office. These consultations are free and the entire University community is welcome to make use of them. Contact Capt. Jayne Rich at ext. 6600.

The Planning Office of Operational Services has changed its name to the Department of Facilities Development, effective immediately, according to Fred A. Shabel, vice president for Operational Services.

The poster—red-and-white: “Do It In The Dark”—was the object of a number of local and national news stories, and appeared in the New York Times and on the wires of the Associated Press and the United Press International.

Produced through the efforts of the Publications Office and the Energy Office, the posters were such a success that it is reported they don't stay posted for long: people are ripping them off as fast as they can be put up.

The posters also caught the eye of the many innovations in campus dining halls. Enjoying the "greens" are (left to right) William Canney, manager of 1920 Dining Commons, Donald Jacobs, director of Dining Services, and Early Conley, the longest-standing manager in Dining Services.

Energy Poster ‘Generates’ National Press Interest

An energy conservation poster seen on bulletin boards and kiosks around campus has, as they say, "hit the big time."

For Lunch In Dining Halls

There's a new "try it, you'll like it" offer at the University's dining halls: for two weeks, through May 7, all faculty and staff are invited to lunch in any of the dining halls for a special reduced meal price on only $2.00! And if you do like it, you may decide to continue the special reduced price by purchasing a 25-ticket discount meal book for $50.00 after the May 7 deadline. Regular individual meal tickets are $2.40.

Lunches include brand new salad bars (with all the fixin's), a vegetarian menu at Stouffer, Hamburger Marathon at the 1920 Dining Commons, and the "Sandwich Express" at Hill Hall, a make-your-own-sandwich deli-bar.

The Special Introductory Offer is to introduce faculty and staff to the new menu items, to encourage participation, and to help reduce crime. In fact, two typewriters were recently confiscated by Philadelphia police, who noted the engraved numbers, checked the registration system, and returned them to the owner.

"Without this kind of identification, thousands of dollars worth of goods go up for auction at the Police Departments, and the goods cannot be returned to the owners. If we have an engraved number which is registered, and a decal, this at least gives us a chance to return stolen items," Capt. Rich said.

Another way to help reduce crime is to close office doors and turn out the lights when you leave at night. This will help campus security personnel, who can then check rooms which have open doors or lights left on. Many people prop their doors open at night, which is an open invitation to theft, Capt. Rich said.

If you see something unusual, or something which might be a security hazard, contact Campus Police at ext. 7333 (emergency) or ext. 7297.

"For all the security we have on campus, it is seriously compromised if people are not aware of it and do not call us if they suspect something is wrong."

Another way to prevent crime is to inform potential thieves that Operation Identification is in effect. They have put in this first year."


OS Groups Help Complete Long-Awaited Park

Penn Community Park, born in the minds of a group of community people over 5 years ago, is nearing completion, and in the past few months has seen the cooperation of the Park Association and various offices of Operational Services.

"It looks like we're going to have a beautiful park by July 4," said Mrs. Lori Steuer, an organizer of the community group, "and I want to thank especially the people in the Office of Facilities Development and Mr. Fred Shabel, who has been a great deal in getting us support."

'We have all been working very closely now, implementing our current design, and we're all looking forward to the final phases," she said. The last steps of the park's construction, taking place on the southeast corner of 40th and Walnut Sts., include a brick plaza with a pathway, benches, the seeding of grassy areas, lighting, drainage, and a sprinkler system. Work already completed includes the planting of daffodil beds, evergreens and hardwood trees, and construction of a redwood fence.

The role of the Office of Facilities Development has been one of coordination, assistance, and help with contracting, particularly with building permits, and the Office of Information Systems and Mr. Fred Shabel, who has been helpful in getting us support."

Use Of Airmail Envelopes Asked For Better Service

All University departments which send mail overseas are being asked to use special foreign airmail envelopes in order to facilitate sorting and the posting of proper postage amounts, according to Steve Murray, director of the Communications Department.

Foreign mail sometimes gets mixed-in with domestic mail, Murray said, and this may mean that the proper postage is not affixed. Since the University processes 5½ million pieces of mail annually, it is easy to understand the problem.

When foreign airmail incorrectly rated, it is returned to the Communications Department for proper postage, thereby causing a delay.

The envelopes, with a distinctive red and blue border, can be ordered directly from the Publications Office. Orders will be accepted individually or at the same time as regular stationary orders.

A recent merging of airmail and first class postage services in the United States and Canada has opened the way for the use of these envelopes, since it is no longer necessary to designate domestic letters as "airmail" or "first class." This means mail is either domestic or foreign, and hopefully the new envelopes will make this distinction easy to spot.

Costs for the envelopes are $15.00 per thousand. Regular envelopes are $13.50 per thousand.

"Adherence to the practice of using airmail envelopes for all foreign mail will be to our mutual benefit in reducing the possibility of airmail delays," said Murray. "Cooperation with this procedure will be appreciated."

Noise, Air Pollution Avoided Through Physical Plant Study

Through the combined efforts of the Departments of Facilities Development and Physical Plant, the use of a large diesel generator at the Silverstein Pavilion construction site has been avoided, saving people in the area the discomforts of noise and air pollution.

The situation occurred as plans were being made, as part of the construction effort, to cut an underground electrical cable, which would necessitate the use of a large, noisy and dirty diesel generator to maintain electrical power at the Hospital of the University of Pennsylvania (HUP).

The project engineer, John McClatchy of Facilities Development, was concerned about the use of the generator because of the noise and the air pollution it would create.

McClatchy contacted Don McAleer of the University's Physical Plant, and Ray Schuehler of HUP's Building and Grounds Department, to see if there was a way to assess electricity needs and loads, and then to see if there was a way to reduce them enough to avoid the use of the external generator.

McAleer's and Schuehler's offices discovered that loads, indeed, could be reduced without significantly affecting the patients or research efforts at the hospital.

"We were just trying to minimize the dirt, dust and noise problems for everybody, and fortunately it worked out," McClatchy said. "We were very concerned about the pollution, and our combined efforts have proven that we just don't need the thing."

The study and load-reduction recommendations took approximately 2 months to complete, McClatchy said, and he pointed out that the electric cable cutting would take place early in the morning, at the period of peak electrical demand. He also said the hospital's emergency generator would be used as the old cable is cut and the new cable is completed, and could also be used in a standby system in case anything should go wrong with the cable cutting.

"You might see the hall lights blink once we make the switch, but that's about all," he said. "That's a long way from over 24 hours of a noisy, smoking generator."

Mystery Photograph Revealed:
It's A 30-Day Steam Chart!

Charts like the one pictured on page 1 are received each month by the University's Energy Office, to help clarify peak energy-use periods (which can help lower our increasing energy bill) and to help double-check our energy bills.

The charts are a record of each hour of energy use over a 30 day period. Longer lines emanating from the circle indicate high energy use periods. With the charts, the Energy Office can check at a glance the University's high use periods, upon which our bills are computed, and can hopefully reduce them.