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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 Daedulus 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 an aerial photograph of different colors, but is actually a record of the amount of radiant energy emitted by all objects within the survey field.

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.

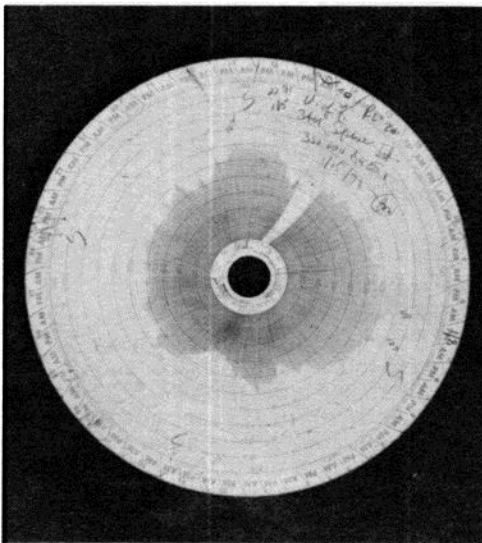
"I want to emphasize," Smith said, "that a lay person who has not been certified should not attempt to use these techniques. You might not recognize certain symptoms of the victim, and this is dangerous."

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.

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The survey, which had to be carried out under fairly specific weather conditions, began at dawn on Tuesday, March 23. A similar survey done for Cornell University, McQuade said, indicated that they did not have as serious an insulation problem as they had thought originally, and resulted in the saving of some maintenance expenditures.

The infra-red survey pictures are expected at the end of this month. They record the temperature levels of buildings and grounds, showing in various colors which areas are hotter or colder than other areas. In this way, even steam lines, which are underground, can be "seen" in the pictures. Areas of poor insulation are recorded on magnetic tape as a different color—since the ground around the lines would be hotter than the ground around well-insulated lines—than other areas.



What Is It? A mandala? A bulls-eye? A Rorschach wheel? For the answer turn to Page 4.

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

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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

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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

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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 many other items too numerous to list. All these items contributed 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.

Use natural lighting whenever possible.

Identify areas that you feel are overlit. (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.



These flowers and plantings on College Hall Green have been donated by the Alumni Association of Rochester, N.Y., and were installed last week by Physical Plant. Other plantings will follow, to help keep the Green colorful.

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.).

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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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."

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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 delatessen sandwich bar, make them the way you like them; "Hamburger Marathon" at 1920 Dining Commons; and a vegetarian menu at Stouffer Dining Commons.

Need Some Budget Cutters? Check Your Telephone System

Having trouble closing your budget? Savings through telephone equipment studies, announced earlier this year in *ServiceLine*, are continuing around campus, and it is a good time to take advantage of special Communications Department analyses.

Tom Hettinger has been appointed recently to work with University departments who request this telephone systems analysis, and he may be reached at ext. 4670.

Steve Murray, director of the Communications Department, said that many departments have taken advantage of Hettinger's work and have been saving substantial amounts of money of their annual telephone bills.

Typical recent savings as a result of these analyses include: the Human Resources Center's annual telecommunications bill was reduced from \$2674 to \$1336; and the Microbiology Department's annual bill was cut from \$4850 to \$3160.

Generally speaking, savings like these can be accomplished quickly and easily, often without any reduction in service, and perhaps with improvements in service.

So, if you are having trouble with your office budget, call Tom Hettinger at ext. 4670 for possible telephone savings.



New bike racks, terraces and benches at Logan Hall are part of an Operational Services test program for renovations and building improvements. Other improvements include color-keyed painting and wall graphics.

Savings—Continued from Page 1

and Bomar feel that these are considerable savings over last year's vacation period.

"We did a number of things to save energy which were not done last year, but there is still room for a lot more to be done during our shut-down periods," Bomar said.

The \$18,000 came from saving 338,000 kilowatt hours of electricity and 2,154,000 lbs. of steam, as compared to a similar 9-day period just prior to spring vacation.

'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 door-sticker 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 Law School, from which they had been stolen.

"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. To take part, contact Bill Busch at ext. 6900.

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 alert and do not call us if they suspect something is wrong."

Another way to prevent crime is simply 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.

PLANNING OFFICE HAS NEW NAME

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.

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upkeep and appearance.

The Council has instituted the following items during the year:

- Established a system of "job response cards" for Physical Plant workers, which help keep the Building Administrator well-informed of maintenance activity in his or her building;

- Have published a list of priority telephone numbers to call for services;

- Have established better communications, through the centralization of each building authority, with the Department of Physical Plant;

- Have established routine procedures for checking all work that is going on in each building;

- Have posted No Smoking signs in public places;

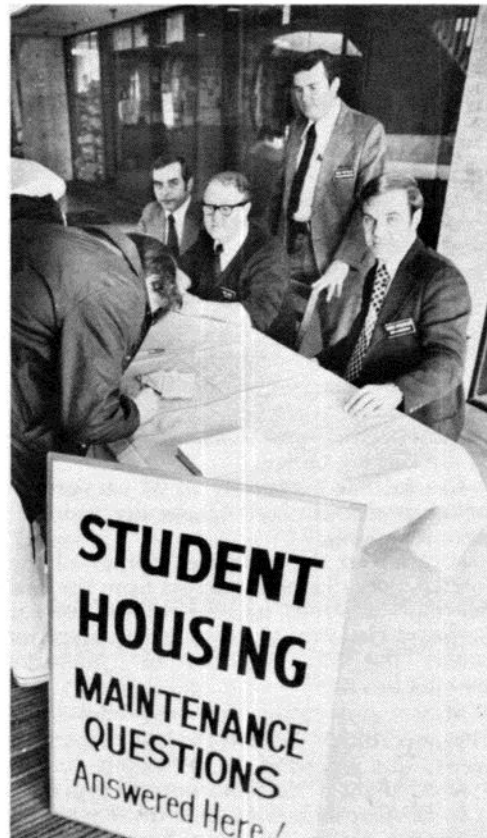
- Have cooperated in energy conservation concerns;

- Have raised their own awareness of campus emergency procedures and safety procedures;

- And have published a complete list of all Building Administrators in the Almanac.

The Council serves as an advisory group to Fred A. Shabel, vice president for Operational Services, who said, "I want to thank the Building Administrators for all their time and work this year, and I hope we can all build on the organization which we have established. I am convinced that the Building Administrators are sensitive to the environment in which we all work, and I know that our concern will result in a more enjoyable and pleasant campus. These administrators have a great feeling for our people, our campus, and our buildings, and we all owe them a great deal for the work they have put in this first year."

For the name and number of your Building Administrator, contact Mrs. Betty Chaney at ext. 7241.



Student housing problems are answered on a regular basis in various campus residences. Pictured are (left to right) Fred Wagner, Bob Gable, Bob Methlie, and Norman O'Connor, all of Physical Plant.

Special Introductory Offer 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.

Director of Dining Services Don Jacobs said that many faculty and staff were not aware that dining halls were open to individual meal buyers, and he hopes that this introductory offer will help them to get to know what University dining is all about.

For menu information call ext. 4595. After June 1, call ext. MENU. At dining halls, you can eat to your heart's content, so try it, you'll like it!



Make-your-own-salad bars are only one 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."

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 Federal Energy Commission, and negotiations are currently underway to produce them as part of an energy conservation-public relations awareness campaign for college campuses around the country.

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 magnificent in giving 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, according to

ding to Titus Hewryk, associate director, and one of the OS people who has been working closely with Ms. Steuer's group.

"We have volunteered our time to help provide cost estimates and arrange for contractors," Hewryk said, "and have tried to be as helpful as possible. We're trying to stay in the background but help them as much as possible with our knowledge of this type of work."

Apart from this technical assistance role, the University has over the years donated a substantial amount of money for the completion of the park. The Park Association itself has been working since 1971 to raise money and provide volunteer labor for the park, which, when completed, will have redwood benches, lighting, extensive landscaping, and a sculpture garden. The southern section of the land, which fronts on Locust Walk just below 40th Street, will remain mostly unimproved and will be used for recreational purposes. This section is not officially a part of Penn Community Park, but may be used by the Association until 1978.

Police Get Commendations

Two members of the Department of Security and Safety were commended recently for jobs well done. They are Capt. Jayne Rich, security specialist, and Harold McGrath, supervisor of detectives.

McGrath was commended by Thomas Naff, director, the Middle East Center, "for the efficient and tactful protection" which McGrath and his staff provided during a recent visit of the Egyptian ambassador. In a letter to McGrath, Naff said "we were extremely grateful for the way you and your men rallied round when the need (for security protection) developed. Thank you for your help."

Rich received a letter of commendation from the Wistar Institute for her security lectures and a security survey she made at the Institute. Capt. Rich is active in community work and security, and took part recently in organizing a city-wide Rape Conference, and gave a workshop during the conference.

New Parking Facility Opened

A new parking lot was opened earlier this month at the corner of 34th and Chestnut Streets, according to Steve Murray, director of the Parking Office.

The lot has a capacity of 31 cars and is being used exclusively for faculty and staff permit parking.

Located on the northeast corner of the intersection, diagonally across from the Law School, the lot is located on the former Sergeant Hall site. Murray said this latest lot brings the total number of University parking lots to 43.

Also, demolition of the so-called "Pagano's block" (3600 Walnut St.) began last week, and according to OS vice president Fred A. Shabel, "Our short-range approach is to develop a parking area on that block. Our long range objective, however, is to analyze the needs of the University community in order to come up with a vibrant addition to our life at Penn."

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 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 seriously 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 least 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 as a standby system in case anything should go wrong with the cable cutting.

"You might see the hall lights blink once when 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.

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 is 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."