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THE OBSERVER

Vol. VIII, No. 58

serving the notre dame - st. mary's community

Friday, December 7, 1973



Christmas

HAVE A MERRY ONE

incident

fiction for the season by dennis mcintire

Mr. Hutchins hurried through the revolving door and out into the bustle and noise of the city street. The pedestrian traffic was brisk, many were shoppers scurrying about with packages. The air was cold but it felt good.

"Give to the Salvation Army sir?" said a short, tired looking woman. She was wearing the uniform blue coat and hat and standing beside a money cauldron suspended from the point of three poles. He shook his head and walked out to the curb. It was 4:30 and Mr. Hutchins was pleased that he had been able to leave the office early. The cars raced by him and he looked for an empty cab approaching in a close lane. There was no one else along the block waiting for a taxi and this added to his feeling of well-being.

The wind picked up suddenly and Mr. Hutchins began to button his top coat. Out of the corner of his eye he noticed a small piece of paper whirling towards him on the edge of the sidewalk. He instinctively snatched it up as it glided past his feet. In a split second he knew it was money. He straightened out the paper and looked with unmasked delight at a ten-dollar bill. It was wrinkled and worn but nothing looked sweeter to him at that moment. He glanced quickly at the pavement again as if he expected to see more bills rolling towards him.

His next reaction was to look around for the owner. Checking his elation, he held the bill conspicuously in his hand and surveyed the pedestrians passing by. At any moment someone would surely come running up to him and claim it, explaining how it had slipped away or been dropped. Yet as he waited no such person appeared. The people passed by, taking no notice of him. He looked further up the street for a long interval, carefully scanning the crowd for a man searching through his pockets or a woman rummaging in her purse, anyone who appeared to have lost something. Nobody in this situation could be seen.

His duty done, Mr. Hutchins allowed the jubilation of knowing that the ten dollars was his to sweep over him. He smiled openly and savoured the incredibility of his find. After staring at it for a couple of seconds he slipped the bill into his wallet. Never before had a lucky day presented itself to him in so obvious a manner. Thinking of all that had happened he could not suppress another smile.

The ringing of a bell attracted his attention. He turned and glanced toward where the Salvation Army lady was standing. She was looking his way and had no doubt seen him find the money. This had a strangely unsettling effect on Mr. Hutchins,

yet in his mind, he had acted properly. An honest and sincere effort had been made to find the owner, there was no reason to feel guilty. Yet the feeling was there and he felt compelled to act on it.

Hesitating briefly, he walked over to where she was standing and pulled out his wallet.

"I found this blowing down the sidewalk just now," he said, dropping a dollar through the cauldron grating.

"Thank you sir." The woman's face was a blank. She continued to swing the bell.

No sooner had the words left his mouth than his turmoil deepened. In an instant it flashed upon Mr. Hutchins that she didn't believe him. His attempt at deceit was petty and stupid. He felt acutely embarrassed. In his shame he didn't know what had prompted him to go back, especially after walking by with no qualms the first time. Thinking of this, it suddenly occurred to him that he had been right all along. No one could have found fault with his actions. This absurd incident had ruined a good thing.

His discomfiture turned to resentment and anger. It was idiotic that a man like him should be cowed by a ridiculous-looking old woman. Snatching another dollar bill from his wallet he stuffed it through the grating. Paying no heed to the woman he buttoned his coat with care and strode calmly back to the curb, where he was just in time to hail down a cab.

"Where to?" asked the driver, as they were pulling away.

"Jefferson Plaza," he replied curly. Mr. Hutchins was in no mood for talking, but stared moodily out the window at the people on the street.

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BOILER HOUSE FLICK

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Mary's College. Subscriptions may be purchased for \$8 per semester
(\$14 per year) from the Observer Box Q, Notre Dame, Indiana 46556.
Second class postage paid, Notre Dame, Ind. 46556.

Students face travel problems

by David Kaminski
Staff Reporter

In two weeks, Notre Dame will complete its first semester and students will be leaving for Christmas vacation. The normal holiday rush should encourage every student to make early plans for transportation home. However, this season the energy crisis will affect many travel plans, either in going home in December or returning to Notre Dame in January.

Here is a review of the current transportation situation, as well as a prediction of what changes one might expect in the coming weeks.

Airlines

The Notre Dame Travel Bureau reports that all flights leaving South Bend on Dec. 20, 21, and 22 are completely filled. There is limited space left on flights leaving South Bend on Dec. 19 and after Dec. 22. Students can still reserve flight leaving from O'Hare Airport in Chicago.

The Travel Bureau also reports a problem in making reservations from Chicago to the west coast, due mainly to the transport workers' strike of Trans World Airlines. Planes to Los Angeles and San Francisco are especially difficult to get at this time.

In addition to the normal crowding on airlines during the holiday season, the student travelling to and from home by air has another problem to worry about. Due

to the fuel shortage, airlines have already discontinued some flights in December. The allocation of jet fuel will be redetermined in January. If the ration of fuel to the airlines is further cut, more flights will be discontinued. Some students holding round trip tickets back to South Bend might find their flight discontinued on the first of the month.

United Air Lines could not predict which flights might be discontinued in January. They suggest, however, that all students holding return tickets to South Bend check with their airlines early in January to confirm their reservations. Anyone holding a ticket on a discontinued flight will most likely be placed on the next available flight, but it would be wise not to wait too long in January to see if your flight plans will be changed.

Trains

The story on trains is very simple. They're all completely booked. The holiday rush and the curtailment of some air service have caused train reservations to fill for the next coming weeks.

Amtrak reports that all trains leaving Chicago from Dec. 18 to Jan. 4 are completely filled. In addition, Amtrak's waiting lists for possible cancellations of reservations are already so long that they are no longer accepting names. However, students might still arrange train transportation to Chicago in

January.

Driving Home

Of course, many students will be driving home for Christmas. Everyone must be aware by now that some states have reduced their speed limits by law, others recommend a slower speed to conserve gasoline, and many service stations are voluntarily closing on weekends.

The Chicago Motor Club and the Indiana State Police have contributed the following list of states that now enforce a 50 mph. speed limit for passenger cars:

- Iowa
- Maine
- Maryland
- Massachusetts
- New Jersey
- New York
- North Carolina
- Pennsylvania
- Rhode Island
- Texas (55 mph)
- Vermont
- Washington

The Chicago Motor Club reports that Colorado, Connecticut, Montana, and Oklahoma are now considering a change in speed limit. It's likely that these states will change to a 50 mph. speed limit in the near future.

Neither the motor club nor the Indiana State Police could speculate on the possibilities of fuel shortages in the next several weeks. However, here is a list of some states whose gasoline stations along major highways closed last weekend from 9 p.m. Saturday to midnight Sunday:

Illinois—along the tollway and the expressways. An emergency service will provide a stranded auto with two gallons of gasoline.

Indiana—Stations along the toll road also closed during the recommended hours. However, Standard stations reportedly stayed open until 11 p.m. Saturday. Cars stranded along the toll road on the weekend will also be supplied with two gallons of gasoline.

Ohio—Arco and Gulf stations are presently staying open on weekends. All other stations were closing during the recommended hours.

New York—Stations reported closed along tollways and thruways during the weekend.

Pennsylvania—Stations reported closed along turnpike and thruways during the weekend.

Florida—The state has completely banned the sale of gasoline on the weekend along Florida interstates and parkways. Other stations in the state may close voluntarily.

The Congress of the United States is now working on bills which would make reduced speeds and gasoline station closing on weekends mandatory.

The office of Congressman John Brademas reports that the House of Representatives passed the Highway Speed Limit Act on Monday, Dec. 3, and sent it on to the Senate for consideration. This bill limits all highways speeds in the United States to 55 mph.

The congressman's staff could not guess if the Senate would likewise pass the bill before their Christmas recess. However, quick action is expected and students driving back to Notre Dame in the middle of January might expect to make the trip under new mandatory speed limits.

Legislation designed to ban the sale of gasoline on weekends is still in a House committee, with no sign of when it might go to the floor of the House for a vote.

Drive-Aways

Some students may drive home for vacation with a car from a drive-away agency. The Wilson Drive-Away agency in Chicago has a Notre Dame representative arranging for students to drive cars from Chicago to destinations across the country.

A student must be 18 years of age to contract to drive for a drive-away agency, according to Interstate Commerce Commission regulations. Usually the cars available are late models in higher price range. Many Oldsmobiles, Cadillacs, and Lincolns are available. A student has to pay an \$80 deposit and gasoline expenses. The \$80 is refunded when the student delivers the car.

At this time of year, there are many cars available to drive to Florida and western states. Wilson's has cars available to as far away as Salt Lake City, Tucson, or Los Angeles. However, there are very few cars available to drive to eastern states like New York.

Once a student delivers a car, he has a possibility of arranging a return trip to Chicago with another car in January. However, this round trip is not guaranteed.

Busses

Greyhound bus lines report no slowdown in service due to restricted speed limits. However, they hint that they will have to revise their schedule in the event of a mandatory reduction of speed limits in the United States.

The fuel shortage is so far not affecting Greyhound service either. Greyhounds are fueled by diesel fuel at Greyhound-owned depots, and so gasoline station closings on weekends will not restrict Greyhound service.

THE OBSERVER

Goin' Home

Friday, December 7, 1973

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Bicycle storage available

by Joe LaFlare
Staff Reporter

The Security Department announced yesterday that they will be offering a bicycle storage for the winter.

All bicycles will be safely secured in a cyclone fence with barbed wire over the top. According to Director Arthur Pears, "We would like the bicycles to be off the sidewalks so the plows can get through quicker, away from the trees, and also in a semi-safe area."

The bicycles will be stored in the stadium somewhere between Gate 7 and Gate 10. The Security Department is asking for the students' cooperation in this matter. He set up the following guidelines:

- 1) Any student who has a registered bicycle will obtain free storage.
- 2) If a student does not have a registered bicycle, he may register it with Security for a fee of \$1.00 and this will entitle him or her to free storage.
- 3) All other bicycles will be charged a fee of \$1.00 for the storage.

Pears emphasized the point that if one chooses to store his or her bicycle for the winter, it will be kept there until the weather improves, probably sometime in April. "It will not be an in-and-out type of system," said Pears.

Since this will be the last edition of *The Observer* for the semester, students should listen to WSND for further details. According to Chris Singleton, director of bicycle storage, "We will probably begin sometime early next week." Pears and Singleton expressed thanks to Robert Cahill, business director of athletics, for his cooperation in this matter.

Pears also announced that the Security Department will allow any student leaving his car over the break to park it in Parking Lot D-1, starting December 14. This applies to cars which have decals for other lots only.

Ford sworn in as 40th Vice-president of United States

By GENE BERNHARDT
WASHINGTON (UPI)—Gerald Rudolph Ford was sworn in as 40th vice president of the United States Thursday by Chief Justice Warren Burger in historic ceremonies in the House of Representatives.

The simple but dramatic event, the first in the nation's history where Congress confirmed a vice president, was televised live nationally and attended by President Nixon and other dignitaries.

It came within an hour after the House voted to confirm one of its own for the nation's second highest office.

The swearing-in filled the vacancy in the vice presidency created when Spiro T. Agnew resigned Oct. 10 after pleading no contest to one count of tax evasion.

"I am deeply grateful to you Mr. President, for the trust and confidence your nomination implied," Ford said in a brief acceptance speech. "You have my

support and loyalty."

The former House Republican leader placed his hand on a Bible owned by his son Michael, a seminary student, and held by his wife Betty.

In addition to the President, the Cabinet, the diplomatic corps and the Supreme Court witnessed the swearing-in which was conducted before a joint meeting of Congress.

For repeated the identical oath he had taken 13 times previously as a member of Congress.

Ford also spoke directly to Speaker Carl Albert, to Burger, to his wife and then to his colleagues in deep sentimental terms and said "at this moment of visible and living unity I see only Americans."

"I like what I see. I am not discouraged. I am indeed humble to be the 40th vice president of the United States but I am proud, very proud, to be one of 200 million Americans," Ford said.

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Today's issue of *The Observer* is the last until January 17, 1974. Merry Christmas and Happy New Year (and Sugar Bowl celebrations!).

world briefs

NEW YORK (UPI)—New York City and the state of Connecticut announced they were cutting weekend subway, bus, and train fares in half in the New York area to help cut down automobile use.

NEW YORK (UPI)—Stock prices, which have dropped sharply in the past five weeks, rallied strongly Thursday on indications of some progress in the Middle East peace talks.

The Dow Jones industrial average, the widely followed market indicator which plunged nearly 200 points in the past five weeks, gained more than 25 points in heavy trading, closing at 814.12 for the second best gain of the year.

WASHINGTON (UPI)—Top presidential aide Alexander M. Haig testified Thursday there has been talk in the White House that perhaps some unidentified "sinister force" mysteriously erased one of President Nixon's Watergate tapes.

Haig, who succeeded H. R. Haldeman as White House chief of staff last spring, also said the disclosure that two other tapes had never existed was "fairly traumatic" for the White House and widely misunderstood by the public.

on campus today

friday, dec. 7

3:25 pm lecture --"the evolution of an industrial water pollution control program at PPG industries, " by mr. anthony ziehler, room 205, eng. bldg.

3:30 pm perspective series--"metaphysical arguments," by stephen korner, library aud.

7 pm dinner--madrigal dinner, regina north, advanced registration.

7 and 10 pm-- film--"lady sings the blues," engineering aud. \$1.00

7:30 concert--david basch, horn; patrick maloney, tenor; william cerny, piano; library aud.

8 pm bridge --duplicate bridge, university club, everyone welcome

7:30 pm concert--flanner's america, free.

8:30 pm play--"thieves' carnival," washington \$1.50, student, faculty, and staff \$2.00 gen ad.

saturday, dec. 8

9:30 am workshop--"reality therapy and discipline," sponsored by the education dept., carrol hall. registration fee \$10.

2 pm tea--delta ka; gamma christmas tea, stapleton lounge.

2 pm swim meet--western ontario u., rockne memorial.

2 pm basketball--st. louis, acc arena

7 and 9 pm film--"the great race," little theater, \$1.

sunday / dec. 9

1 and 7 pm show--st. nicholas day show and sale, little theater gallery.

2 pm meeting--science fiction association, 2-a lafortune

3:45 pm concert--notre dame choral ensembles music of advent and christmas, sacred heart chrch.

7 and 9 pm film--cartoons, eng. aud.

8 pm concert--annual christmas concert, church of loreto. free.

monday, dec. 10

4,7,10, and 12 pm film--"macbeth," eng. aud.

friday, dec. 14

8:15 pm concert--orchestra and symphonette, washington hall. free.

Mulcahy urges OC consideration

by Butch Ward
Editorial Editor

Expressing concern that the on-campus overcrowding situation will not be much improved over that which existed last spring, Father John Mulcahy, Director of Housing, urged students considering a September move off-campus to consult with their parents over break.

According to Mulcahy, students will be asked to notify the Housing Office of their intent following their return in January.

"We find nothing to indicate that the overcrowding situation for upperclassmen will be appreciably better than what it was this past

September," said Mulcahy. "Therefore, it would be helpful for all to know early those students who intend to live off campus in the fall."

Associate Vice President Father James Flanigan also announced that applications for resident assistant positions will be available in the Student Affairs

Office at the start of the second semester.

Father Flanigan added that students who notify his office of their location during break can receive the applications through the mail. He added that the required interviews will begin following the start of the next semester.

Can you decorate it?

A Christmas tree isn't always what you might think.

Webster's New Collegiate Dictionary (1973) defines it, in addition to the tradition sense, as "an oil-well device consisting of an assembly of fittings placed at the top of the well" and as "a set of flashing red, yellow and green lights used to start drag races."



PIONEER

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DAY: Friday, Dec. 7



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Reflecting social changes

ND offers women's courses

by Judy Rauenhorst
Staff Reporter

One of the social changes that has filtered into everyday life in the 70's has been a new consciousness among women. These effects are visible on college campuses. Women-oriented conferences, courses and special programs are already filling the agenda for 1974. Within the Notre Dame-St. Mary's community, many women's programs and courses already exist or are being planned for the near future. There are three areas in which women have been emphasized; within the curriculum, through continuing education programs and 're-entry' programs.

Curriculum

Women's courses are being taught on Notre Dame's campus in four departments this semester. One such course, "Images of Woman," is team taught by Professors Elizabeth Fiorenza and Mary Lynn Broe and is cross-listed by the Theology Department and General Program. It focuses on literary and theological viewpoints about women.

"Women and American History" is a course introduced by Professor Carol Moore through the History Department. This course "investigates the social role and public image of women in different periods of American history, studying both the variety and continuity of women's historical experience."

A special directed readings class, "Images of Woman in America," taught by Professor Madonna Kolbenschlag, "centers on a study of the female stereotype in American public mythology and communications media."

The American Studies Newsletter reported that "Enrollment of men and women in the course was relatively 50-50, a very desirable quorum. The University women who have pioneered in the current offerings would like to see an expanded cluster of Women's Studies courses,

a slate of various electives cross-listed by departments and available to students at large."

For the coming semester, three special courses on women are scheduled. American Studies is offering 'Women's Studies: The American Family'. This course is described as 'focusing on the peculiar configuration of the American family, as conditioned by sexual roles and stereotypes, and will be taught by Kolbenschlag. Professor Moor's course, 'Women and American History' will be continued this semester. The Theology Department has added, 'Women in Ministry'. To be instructed by Professor LaPorte, this course will deal with status and ministry in the early Church as it applies to women. It is also a rare instance where a man is

teaching a course on women.

At St. Mary's, special women's courses do exist, but they are not isolated. Mrs. Gail Mandell, Assistant to the Vice President for Academic Affairs, explained the goals of St. Mary's curriculum. (continued on page 7)

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Want to do something worthwhile for yourself?

If you have at least two years left at Notre Dame you should investigate the Army ROTC Program on campus.

There are openings for enlisted veterans who have the additional opportunity to apply for a one year full tuition scholarship. Veterans may opt for either a 3 month or a 2 year active duty commitment after commissioning.

Non-veterans interested in earning an officer's commission should inquire about the Two-Year Program. Individuals in this program are eligible for two and for one-year scholarships.

If you desire further information, visit the Army ROTC office on campus or call 6264.

Army ROTC



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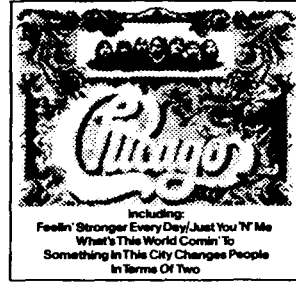
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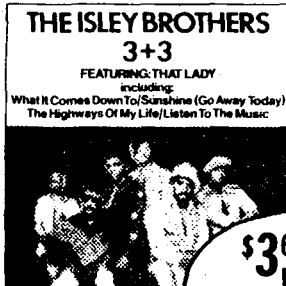
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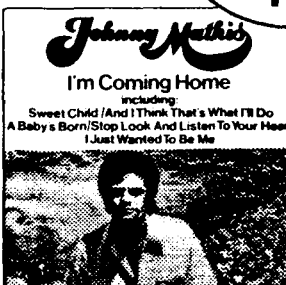
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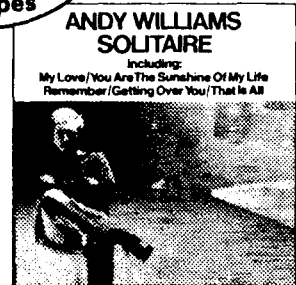
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Will the Sugar Bowl game be blacked out in the New Orleans area?

The consensus is no: the game will not be blacked out. However, a representative of WSJV, the local ABC affiliate, stated that the ultimate decision is up to the network. If you desire a more definite answer, you can call ABC Sports in New York at the following number 212-581-7777 or write to the ABC Network at 1330 Ave. of the Americas; New York, New York 10019 in care of Roone Arledge.

When will room assignment be made for those going on the Notre Dame Football Special?

Hotel room assignments in New Orleans for those signed up for the ND Football Special will occur at a meeting of the group which is scheduled for Monday, December 10 at 7 p.m. in the Fiesta Lounge. If one cannot make it, it would be wise to get in touch with Pete Bohlander at either 7757 or 289-9528 before Monday.

Where can bicycling Domers store their bikes during the hard upcoming months of winter?

There's a good possibility that bike storage in the stadium will soon be offered to students with registered bikes. If your bike isn't already registered, it's still not too late to do so, for a small fee, of course! Flyers with more specific information will be posted next week.

Campus Briefs

Ma Bell hikes rates

Indiana Bell has increased the cost of individual student phone service from \$4.50 per month to \$5.75 according to Fr. Jerome J. Wilson, vice-president for business affairs. The new rates, effective October 1, this year, came as part of a general raise in rates.

The rate hike means that an extra charge of \$4.50 will be levied against all students in the second semester university bill. Rates next year will be \$6 higher.

The new Indiana Bell rates would charge the university an additional \$35,000 a year for student phone service. The university itself cannot absorb the 28 per cent increase.

"We feel we cannot absorb it so rates next year will be \$6 higher," Fr. Wilson explained. "We would add an additional charge of \$4.50 for the present year from October 1 to the end of the year," he added.

Fr. Wilson emphasized that the university makes no profit on the student phone charge. The student phone fee is based on the new charge the phone company levies upon the university.

Fifty/train tix

The Student Union has announced that 50 extra seats are now available on the student train trip to the Sugar Bowl. Students on the waiting list for the trip will be contacted by phone in the order

of sign-up.

All students making the trip must meet Monday night at 7p. m. in Fiesta Lounge of LaFortune. At the organizational meeting room assignments will be discussed.

The balance of the \$130 payment for the trip is due at this meeting.

Yuletide music

A program of Christmas music by the University of Notre Dame Orchestra will be directed by Dr. Charles A. Biondo at 8:15 p.m., Friday, December 14, in Washington Hall. The program is open to the public without charge.

Choral Concert

Notre Dame's Department of Music will participate in a Christmas Choral Concert at 3:45 p.m. Sunday (Dec. 9) in Sacred Heart Church. The public is invited and early seating is advised.

CILA envelopes

CILA reported to The Observer yesterday that they made an error in the envelope size for one of their Christmas cards. Those wishing to exchange envelopes for the number 1 card (by Fr. Beichner) may do so at the Campus Ministry office in the Library.

**For sophomore festival
Literary figures scheduled**

by Fred Graver
Staff Reporter

The 1974 Notre Dame Sophomore Literary Festival will be held from Feb. 10-16. Featured authors are Joyce Carol Oates, Isaac Bashevis Singer, Jason Miller, Michael McClure, Bruce Jay Friedman, Robert Creeley, and Samuel Hazo. Stephen Spender and John Hollander will begin the festival with a tribute to W.H. Auden.

James Baldwin, originally scheduled for the festival, had to cancel his plans due to illness. He will appear on campus sometime in March.

The festival will consist of lectures, readings, informal meetings with students, classroom

'America' movies

Flanner's "America" Coffeehouse ends this semester's series of movies and concerts tonight with a free folk music extravaganza beginning at 7:30 p.m.

discussions and workshops. Each of the authors was challenged to make a presentation on whatever topic interested them.

Joyce Carol Oates has expressed interest in exploring areas of humanistic psychology. Bruce Jay

Friedman is planning a seminar on problems in multi-media expression. Spender and Hollander are working on the tribute to Auden.

The planning committee for the festival is headed by Gary Zebrun.

SMC Seniors present
The Great Race
Saturday / December 8 / 7:00 and 10:00
Little Theater
admission: \$1.00

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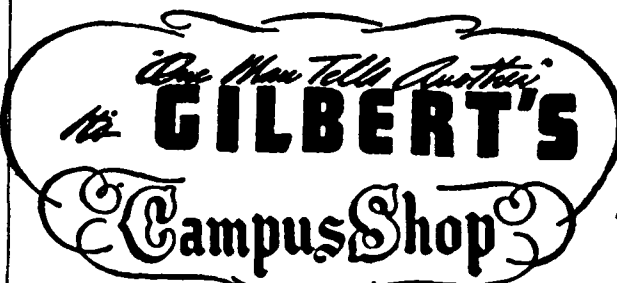
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SHADOWLAND BALLROOM.
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(North on US 31 past Niles, towards Benton Harbor)
Tickets: \$4.00 (advance), \$4.50 (at the door). For advance tickets or further information, call Laurie at 1705.

Women's courses defined

(continued from page 5)

Mandell said, 'The philosophy of the College is to have the idea of women so integrated within each course, that there is no necessity so integrated within each course, that there is no necessity for Women's Studies courses. We want the student to raise herself as a woman.' She thinks that this idea is not fully appreciated by faculty and students, but is something that the College is working toward. Mandell would like to see money set aside for courses that faculty could take to learn how to implement the concept of woman into their courses.

Though this philosophy exists, there is a special woman's course on campus this semester. The English Department is offering, 'Women in American Literature', taught by Professor Diane Sokolowski. A student from her class commented, 'The course is great because it provides an overview of images and roles that women have played in literature, while giving an insight into women that I have never had before.'

As with many courses at St. Mary's, the Psychology-Sociology Department's course on Child Development 'makes an attempt to treat women with a special sensitivity.' Team taught by Professors Penny Jameson and Pat Pilger, the course makes one aware of women's dilemma in raising children.

Dr. Eunice Roberts, a special consultant for women's programs at St. Mary's, has been in education almost 40 years. Presently retired, she is Past Director of Women's Educational Programs at Indiana University.

She expressed her opinion regarding women's studies. 'I see no need for special courses for women. My belief is that the moment you set up courses for women because they are women, you are cementing lines of communication. To show women's place, every course should examine contributions of women as well as men,' Roberts said. 'I do not believe in offering a course such as 'Women in Literature', since women should be included in every course. The more the sexes are separated, the less chance you will have of getting them together in society,' she added.

Roberts said that the important thing was to make sure women have a realistic understanding of what their lives are going to be.

Re-entry Programs
A new direction in women's education is being developed through the re-entry program. This concept makes it possible for the woman who has been away from academic life, maybe to raise a family, and wishes to return to college. At Notre Dame, each faculty spouse is eligible for three credit hours per semester. Mainly, women who take advantage of this program are working toward a degree completion or enrichment. A program for other individuals has not yet been devised.

St. Mary's, as a woman's college, is moving more and more in the direction of special re-entry programs. The idea is to offer courses of interest at hours working women can attend. The goal is to give them an academic environment they can identify with, while initiating them back into the college discipline. 'We have no plans for isolated courses for older women, but will offer a few from time to time. The courses are open to all college students as well,' said Mandell.

If an individual wishes to return to school, she would first see

Mandell who would place her in a course on a trial basis, to see if the school is right for her and to try out her academic goals before making a complete change. If she wants to stay, she can then apply for admission. Mandell explained, 'The program is open to anyone. We have 5-10 students like this who live on campus. They come from different institutions because they want this type of education for a while. We have one nursing student for Rhode Island who wanted a semester of liberal arts.'

There are presently 10-15 men in the program as well, taking courses in art and business.

Some of these courses are offered in the evenings to make it easier for adults to attend. One such course is Professor Berglund's 'Introduction to Sociology' taught on Tuesday and Thursday evenings. The course is made up of twelve people, mainly adult women.

Next semester the Psychology Department is offering 'Principles of Behavior Modification for Parents'. The course, instructed by Professor Joseph Miller, will run from 7pm to 10 pm Wednesday evenings. 'If this course is well received, we will continue more similar to it. It is geared to people who have been out of the educational system a while and have special needs,' Mandell said.

Dr. William A Hickey, Vice President for Academic Affairs, determines policies for continuing education and re-entry programs. 'The emphasis will always be on getting a degree, making it possible for anyone to get a good education which meets his or her goals in being a complete person,' stated Mandell.

Mandell concluded that this program is not to duplicate a continuing education program, but to identify needs not being met by other schools. It is first and foremost to meet the needs of women. A unique asset to the re-entry program is provided by St. Mary's Day Care Center, located in the old clubhouse. The Center is open to children (2-5 years) of students, faculty and staff, and provide child care and nursery school until 5pm.

Continuing Education

Another aspect of women's education is found in continuing education programs. This includes the many lecture series being offered, as well as the conferences being held nationwide. Sr. John Miriam Jones, Assistant to the Provost, is planning one such conference.

'This Person Called Woman', a conference to reflect on the human qualities of womanhood, is scheduled for March 25-27 in the Center for Continuing Education. 'The approach will be humanistic, not woman's 'ibbish.' The question of who is woman, and the demands it takes to balance woman's role in these difficult transition years, will be topics for reflection,' said Jones.

Confirmed speakers at the conference are Sidney Callahan and Sister Francis Borgia Rothlueber. Others who are invited include Katherine Graham, Margaret Mead, Constance Motley and Mary Ellman. Some people who will reflect on prayer and women include Sr. Margaret Brennan, Peggy Way, Claire Harvey and Sr. Jose. They will ask, 'What does it mean to experience God as woman?'

'God has been defined by man often. So many things are expressed by men and not asked by women,' said Jones.

The steering committee for the 2½ day conference includes Sr. Madonna Kolbenshlag, Dr. Sheila Brennan, Mary Kay Tillman, Mary Lynn Broe, Sharon Regan; students Susan Anderson, Ann Payne and Lynne Arnault; and interested women of South Bend Mrs. O. C. Carmichel, Mrs. Hazel Greenwood, and Miss Diane Aquirre.

Sr. Jones 'delights in the fun' of planning the women's conference. Sister hopes that soon she will have time to dream of other long range things, as the coeducation brings on many tangible demands.

Lecture Series

Three different lecture series specifically for women have appeared on St. Mary's campus this fall.

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Institutions or homes?

Family life for the retarded

This is the second part of a two-part series by Observer reporter Jane Thornton covering the problems of mental retardation and what is being done to help those afflicted by it. Today, she writes of the problems that face families with retarded children.

Billy is a 51-year-old cripple who has lived over half of his life in a state institution. His parents, Mr. and Mrs. Harold Shetterly, grandparents nine times over and celebrating their 52nd wedding anniversary, live in a pleasant frame house in Mishawaka. They talk freely about their son's care and training.

Surgery enabled Billy to walk by age six. He learned to write his name and spell cat and go in the Sunshine Room at Lincoln School which he attended until he was 16. At that age the state was no longer legally responsible for his education and his test scores and I Q prohibited admission to higher educational institutions.

After the recession, the family had to make "a terrible decision"—whether to enter Billy in an institution or keep him at home.

"The point came when we had no alternatives," says Mrs. Shetterly. "Billy got temper tantrums and was hard to handle. One day he bit a nurse on the hand and she recommended we send him to the Fort Wayne State Hospital and Training Center."

There, for 31 years, "he did nothing but sit all day," his mother recalls sadly. "Back in the '40's, conditions and institutions were very bad. Once he had occupational therapy, but that was the extent of his training. He didn't qualify for school there either."

The building itself was inadequate, they recalled. Showers and toilet stalls lacked handrails and grab rails for crippled patients. An unbearable stench permeated the building. Officials acknowledged that bed crowding caused an inescapable fire hazard, but did nothing to rectify the situation.

Medical care was poor and personnel were unconcerned. Mrs. Shetterly cites several incidences typical of the neglect which occurred. Billy had returned for a weekend during WWII. "I always gave him a shower, first thing," she explains. "I found him completely covered with body crabs."

A South Bend physician prescribed a simple daily change of clothes and bedding, to which the institution's administrators retorted, "We just don't have enough personnel."

Crippled again nine or ten years ago, Mrs. Shetterly pleaded for two

years before Billy received a walker. Three years ago the Fort Wayne institution sent him home covered with psoriasis prior to prostrate surgery.

Billy entered Carlyle Nursing Home in South Bend two years ago, and since then, Mrs. Shetterly vows, "There's been progress you couldn't believe. He's just like our old Bill. He expresses himself, he's happy."

The Carlyle groups keeps active by singing, playing bingo, participating in band practice and learning the alphabet and numbers. Billy's late fall was highlighted by a two-day recreation trip to Camp Milhouse for the cripple. His mother claims he had "the time of his life playing basketball from a wheelchair."

But most importantly, Mrs. Shetterly relates he receives "lots of love, attention and interest."

Joel

Dark-haired and wide-eyed Joel is a 4-year-old suffering from Down's syndrome (mongolism), a heart defect and a walking disability. His life will probably be much different from Billy's pre-Carlyle history.

Joel will benefit even more than Billy from mental care and training changes. As his mother, Mrs. Hamburg, affirms, "I'm glad Joel was born in 1969 as opposed to 1939 or '49 or '59 for that matter in the sense that public attitudes have changed since then."

South Bend progress really began in 1947 when mothers of handicapped children initiated St. Joseph's County Council for the Retarded to care for the general welfare of the county's retarded citizens.

William H. Locke, Recreation Services Coordinator for the CFR at Logan Center, elaborates, "We want to give the students necessary skills and a wide range of experiences so they can go out in the community and no longer depend on this type of facility."

The organization offers services such as transportation, nursing, and casework plus the Homestart, Logan School and Logan Industries educational programs.

Mrs. Wanda Thorne, CFR's Community Coordinator, attests "Early training has proven to be what will make the difference. Techniques and training had to be developed through experience since no schools existed then to teach the mentally retarded. Over the years we have developed a great deal of expertise."

Living in South Bend for two and a half years now, Mrs. Hamburg affirms, "much of Joel's really exciting development took place

here." Enrolled in Logan Center's Homestart Program, Joel will go on to Logan School, Logan Industries and a community job.

Mrs. Hamburg says the Homestart Program at Logan Center, serving mongoloid children aged birth to five years, was initiated because "any child receives the build of his education before age five, and for mentally retarded children, this is especially so."

"It's easy for a parent to fall into the patten of thinking, well, he's retarded and can't achieve," the mother of four cautions. "The Homestart Program works with the parents who work with the child in the home. The offshoot of this is

(continued on page 18)

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you'll roll in the aisle at thieves' carnival

a review by kathy schwille

Washington Hall is the scene this week of the season's second production for the Notre Dame-St. Mary's Theatre, *Thieves' Carnival*. Under the direction of Charles Ballinger, Jean Anouilh's delightful drawing room farce gets off to a slow start, but by the end will have you rolling in the aisles.

The story, set in early twentieth century Paris concerns three smalltime thieves who, masquerading as a duke and his two sons, have the great luck of being invited to the home of their would-be victim, Lady Hurf. One of the thieves, however, has quite unwittingly fallen in love with Lady Hurf's daughter Juliette, and the stage is set for a struggling romance against a background of absurd comedy.

Jimmy Boland as the mastermind leader of the trio of thieves, Peterbono, will steal your eye before the second scene. Boland puts in an energetic performance that is first rate. Boland, you may remember, played the part of that last great robber to hit the campus stage, the Artful Dodger in *Oliver!*. As Peterbono, however, with all the right touches, precisely the right timing, he far surpasses anything we've seen him do.

Although Boland may steal your eye, be wary of Ed Gray, as Lord Edgard, for by the climax he will steal, if not outright stop, the show.

Edgard is the dottering old acquaintance of Lady Hurf who, considered to have lost his marbles long ago, is really much more on the ball than anyone realizes. Gray gives the loveable gent a toothless grin, a mad look in his eye and by the time he moans "Im

crumpled!" if your'e not doubled with laughter you're just not watching.

Not to be overlooked, Kathy Burke puts in a more than adequate performance as Lady Hurf. Stricken with a bad case of ennue, Lady Hurf sets out to enjoy a 'gigantic piece of folly' to alleviate the strain of being rich. Well cast in the part, Miss Burke obviously enjoys her role.

Jamie Massa is a charming, mischievous Musician, the clarinet being one of Anouilh's inventive ways of providing humor, background and commentary. To several of the actors we would plea

slow down—it would be a shame to miss a single one of those amusing lines. The play has its ups and downs, with some of the players, Ralph Brunneau as Gustave and Christine Sterner in particular, being able to carry off their roles better at certain times than others.

Richard Bergman's set is simple but elegant. An impressionistic drop provides background for the park scene and the drawing room is done in gilded mirrors, a glistening chandelier, gold velvet furniture and tassels. A mishmash of gaudy trinkets and classical statues line the walls—the Venus with the clock in her stomach is a

stroke of genius.

Make-up for *Thieves' Carnival* is coordinated by Debbie Tirsway and struck us as being quite good. The eye-catching costumes are designed by Faith Adams, and several of the ladies' dresses are of special note. Using icy blue, flaming reds and satiny fabrics, the gowns coordinate well with the set and emphasize the glittering,

superficial lifestyle of the Parisian rich.

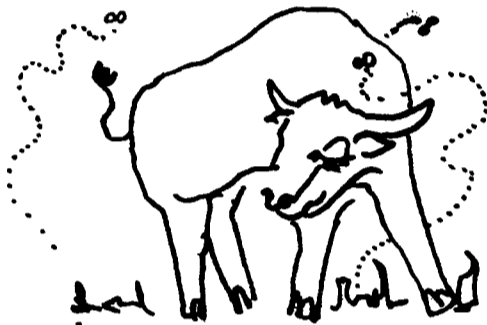
Anouilh's work may not be as familiar to campus audiences as the work of other playwrights, but don't miss the opportunity to acquaint yourself with sheer farce.

'A *Thieves' Carnival*?' says Dupont-Dufort Senior, 'How terribly, terribly amusing!' Well said Dufort

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Cook plant: Energy for the future

by Gary Allietta
Staff Reporter

BRIDGMAN IS A SLEEPY little fishing resort village on the shores of Lake Michigan. Traveling into town from I-94 on a cold November afternoon, it's not uncommon to see signs such as "Closed for Season" posted in many store windows.

One would hardly expect that the Indiana and Michigan Electric Company would choose such a place to build one of the most modern and powerful nuclear power plants in the world.

The Cook Nuclear Plant, I&M's newest and one of the nation's largest, will be capable of producing 2.2 million kilowatts of power. It will have two fission reactors, each capable of producing 1.1 million kilowatts of electricity. Presently, the plant is still under construction but one of the reactors is scheduled to begin operation during early 1974, to be followed a year later by the other.

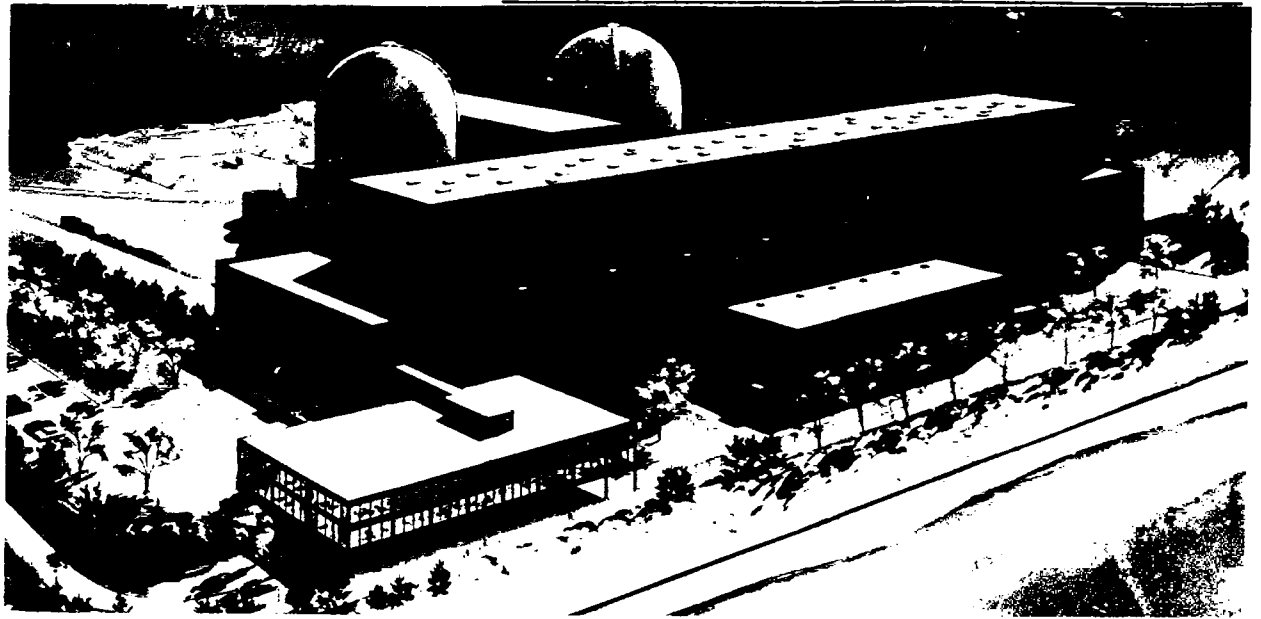
The complex is located on a 650-acre tract of land extending back from the lake front into the Michigan countryside. Most of the land is undeveloped, but necessarily so. Within transformers just a few hundred feet from the plant itself, the electricity is increased to 760,000 volts and sent out through high tension wires. If the lines were ever to fall, anything below them would be destroyed. So the land remains untouched.

The plant is named for Donald C. Cook, chairman of the board of American Electric Power (AEP), the parent corporation for I&M. He is also the president of Indiana and Michigan Electric.

MANY PEOPLE WONDER about the advisability of operating a nuclear plant instead of a fuel-burning one. They wonder why a nuclear plant is necessary at all.

One reason is that by 1980, the demand for electricity is expected to increase 85 per cent. With a shortage of fossil fuels, such as oil, which in turn creates problems in mining coal, there could be a serious discrepancy between supply and demand for electricity. Presently, 34 nuclear plants are in operation in this country, with 60 more under construction and 84 others being designed. By the year 2000, it is hoped that over 50 per cent of the nation's electricity will come from nuclear plants.

THERE ARE TWO MAJOR operations in any electric plant. The main one produces the electricity by means of one or more spinning turbines turning a giant generator. This operation is similar in all electric plants. It is the other operation that distinguishes a nuclear powered plant: the heating



An artist's conception of the Cook Nuclear Center, which is currently open to the public. Located on Interstate 94, the center is open Tuesday through Saturday from 10 a.m. to 5 p.m. and from 12 noon to 6 p.m. Sunday. (Photo and diagram below courtesy of the Cook Nuclear Center)

circuit, which is replaced by running water in hydroelectric plants and a furnace-oriented system in fuel-burning plants.

Basically, the heating circuit of the Cook plant can be divided into four parts: 1.) the reactor itself; 2) the main heating loop; 3) the secondary heating loop; and 4) the cooling system.

The reactor is the part of the system that sets the Cook plant apart from most other electric plants. A fuel-burning system depends on fire for heat; a nuclear plant generates heat by nuclear fission, or the splitting of atoms.

The reactor at the Cook plant looks something like a giant bulb. At the center of the bulb are 204 fuel rods, each 12 feet long. Each rod is filled with uranium pellets about the size of pencil erasers and are arranged in a circle so that most of the fission occurs at the center.

To control the fission, which consists of a neutron shooting from one atom and splitting adjacent atoms, other rods containing a neutron-accepting element such as boron are inserted between the fuel rods. The distance the control rod is inserted in to the core controls the amount of fission, thus regulating the heat in the main system.

NUCLEAR PLANTS VARY in another way from conventional power producers. Fuel-burning plants will usually send steam directly from the heat source to the turbines. In a nuclear plant, however, the water heated by fission will be radioactive. Therefore, heat must be transferred to some other conductor before going to the turbines.

In the main heating loop, water is heated to over 600 degrees in the reactor, but kept at a pressure of 2250 pounds per square inch (psi) to keep it from turning to steam. Then the super-heated water rushes to four steam generators.

At the steam generator, the main system's heat is transferred to the secondary loop; the original hot water and its radioactivity remain within the main system.

In the secondary loop, the heat turns the water to high pressure steam of over 500 degrees. The steam then shoots from the generators first to a high pressure turbine, and later, as it cools, to three low pressure

turbines, spinning their blades 1800 times per minute.

As the steam cools, its pressure decreases and it loses effectiveness. To gain more pressure, it must first be condensed and then reheated. To condense the steam, cool water from Lake Michigan is pumped into the plant and around the pipes containing the hot steam. The vapor condenses to water at 425 degrees and is pumped back to the generators; the cooling water, heated to 15 to 21 degrees above normal, flows back to the lake.

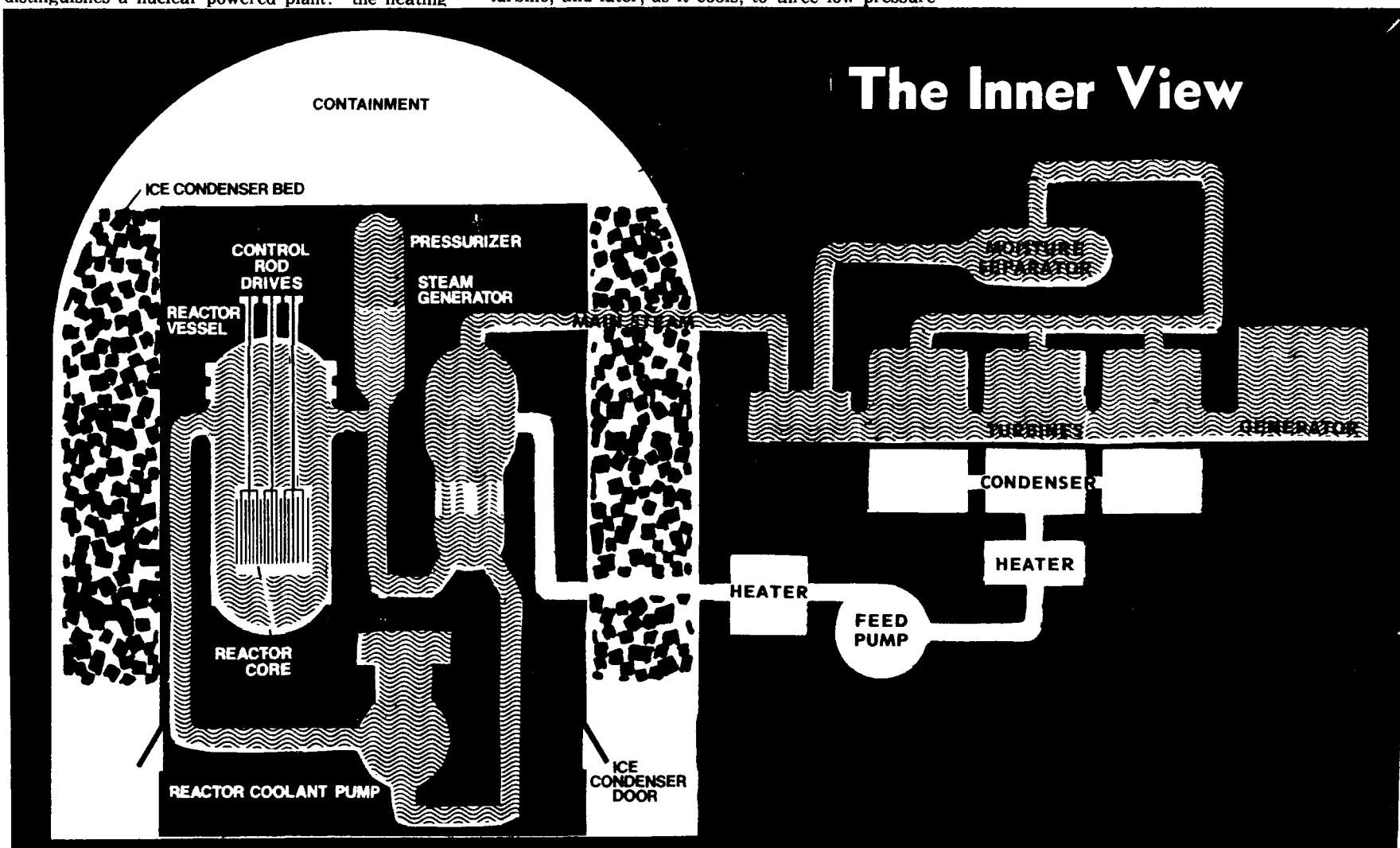
One and a half million gallons of Lake Michigan are thus pumped through the cooling system every hour. Cool water comes in from three 16-foot wide pipes buried in the lake bottom a half mile from shore. Warm water discharges through four similar pipes a quarter of a mile from shore.

EACH OF THE 470-TON reactors is housed in a 164-foot high domed building known as a containment, whose walls are three and a half feet thick with 4-inch steel linings. Martha Kiander of the public affairs department at the plant said the reason reactors are housed in domed buildings is because of the structural strength of the dome.

Designers have built a safety precaution into the Cook plant unlike any other functional nuclear plant. Lining the walls of each containment are three million pounds of borated ice cubes, forming a condenser system. Should any of the hot water pipes ever spring a leak, the hot steam would be condensed by the ice, and the radioactivity neutralized by the boron in them.

Kiander also said that "because of our unique ice containment, the building is designed to withstand 10 psi instead of 60 psi for buildings that don't have it. That helps keep down the peak pressure so that in case of an accident there would be less pressure trying to force fission products out."

(continued on page 19)



THE OBSERVER

AN INDEPENDENT STUDENT NEWSPAPER

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John Kloos
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Friday, December 7, 1973



Our Yule Wishes

Though The Observer spends the greater part of the academic year participating in the spirit of giving, the Editorial Board traditionally takes great delight in wishing a special Christmas to some very special people.

Here follows our Christmas list for the yule of 1973:

The Student Body--A calendar that they can live with.

Ara-- The biggest catch of his life--The Bear--in the Sugar Bowl.

Fr. Burtchaell--A year's supply of Lava with which to wash his hands of the calendar mess.

Mr. Faccenda--A trade-in on his Vitalis for some Dry Control.

Fr. Riehle--A pack of "good" cigars, and co-authorship with Fr. Hesburgh on "How to Avoid the Notre Dame Campus."

Ticket Manager Don Bouffard--A seven hour wait for a Sugar Bowl endzone seat behind a large cement pillar.

John Macheca-- a coed handball court and a new "dope" list--of those in the administration.

WSND--Some listeners and the guts to play The Observer in the media bowl.

The Scholastic--A secret contribution from Bebe Rebozo and some evaluations from people who attend classes here.

Jerry Lutkus--An end to the "hairless" jokes, but even Santa has his limits.

Student Union--Army for next year's Homecoming Game and a director who's not a Republican.

The Juggler -- A closet with a mailslot and a typewriter.

LSAT, GRE, and Comp takers-- a well-deserved rest afterwards.

SMC Dining Hall-- An end to the saga. **Moose Krause**--Three national championships and the Lithuanian Man-of the Year.

Army--A schedule with only Eastern football teams on it--minus Navy.

Edmund Price--Another "special" night--"Cannibal Night"--featuring deep-fried Nixon.

Bill McLain--A revision.

Fr. Bill Toohey--A new cause--finding a friend who writes letters to the editor and a life-time supply of Aqua-Net.

Chris Singleton--Something you've always wanted: a hall named after you. **Dean Ray Powell**--Enrollment in a CPA coaching course--Class Performance for Administrators.

Ken Knevel--Some funds for the LaFortune Renovation

Ken McCandless--A flashlight with Fr. Wilson's autograph on it.

H-Man--Blank diploma.

Arthur Pears--A staff as alert as Darby O'Gill.

Digger Phelps--A home interior decorator with the same color fetishes as his uniform designer.

Kerry McNamara-- A last "last word" and a cram course in government

Dr. Henry -- A Fr. Burtchaell to take the heat off, or better yet, the Fr. Burtchaell.

First semester graduates -- Congratulations and good-bye

The rest of the world--Peace on the birthday of the Lord and on every succeeding day.

Peace, Notre Dame! And Merry Christmas!

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Merry Christmas from
all at The Observer!



Opinion

Stranger's Thoughts

fred antczak

I have two things to talk about, neither of which is long enough to fill a whole column. Forgive me for a rough transition; at least neither thought will be belabored.

The first agendum is the calendar. Briefly, I think Burtchaell's argument is more nearly correct, but his actions make it difficult to defend.

The student body and this paper are caught up in a very real gripe, but they misread what it is. The Observer's alternative calendar has been tried before, and failed quite miserably every time; studying straight through to Thanksgiving has PROVEN too long a stretch to endure. Kids were left with no psychic energy to learn anything--Psych Services and the Infirmary are revealing about this. Appreciably more students broke down physically under that kind of calendar; even a greater number suffered mental or nervous breakdowns severe enough to require treatment, which interrupts and damages the semester.

The argument about earnings lost to an early start is powerful. But to be sharply economical about it, why spend that hard-earned money for a semester that, as most exam-readers will verify, teaches you less? Assuming, as these arguers clearly do, that education is worth the money at all, a calmer calendar is worth more, worth going a further into debt for.

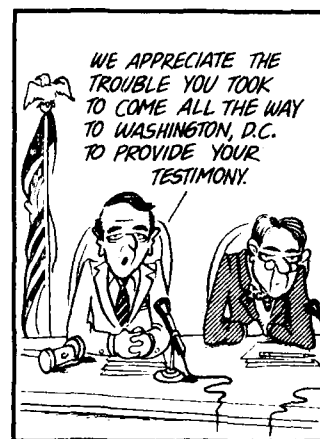
The real malaise that people are sensing is the way we are ruled here. The attitude of the Administration--in Faccenda's gentle blackmail over drinking rules, in the Provost's ramrod methods--seems to be "we know what's good for you and you'll do it, kid or else." Most of the time, their first premise IS true. But dammit, this is a school for human beings, not a Skinner box to produce prudent (i.e. convenient for the Administration?) behavior. Notre Dame should exist not to inculcate habits, but to help people make better choices themselves. The question is, are the lawyers, managers, and clerks in the Dome committed to that, and to us? Or to their own convenience?

Two alternatives are possible to the Provost's calendar. First, The Observer's. Psych Services, the Infirmary, the teachers who've known it, and the students who can remember might agree--I'm convinced they would, but that's beside the point for the moment--that this alternative won't work the way people think it would. The point is to make the students able to judge what's good for us, whatever it may be. I'm not authoritative on that, neither is Mr. Lutkus, nor your roommate, nor Father Burtchaell. I recommend that we try The Observer's calendar, and ask us next year after finals.

The other alternative is to switch to a 13 week fall and a 15 week spring. Face it, ND isn't going to lose its accreditation for that. Further, it serves all concerns better than the other options. The big blockade is the administration. God knows why--maybe He knows--but they sure don't feel they have to explain anything to us mortals. Still, I suspect that, if the idea were seriously suggested, many of the faculty wouldn't go for it either: "I've got my courses geared to 14 weeks. What do you want me to do, rethink the whole thing? Do you want me to TEAR UP MY NOTES?" I'm not playing the misanthrope; when the 13-15 idea once was suggested, precisely that was the faculty reaction. The administration, I take it, objected because no one else does it. You know, it might not hurt any of us to tear up our notes, and rethink once in a while.

The other thing I wanted to say was Merry Christmas to you. Odds are I'm a stranger to you, and so such a greeting sounds like so much scholock, as suspicious and as specious as a piping "Joyeaux Noel" interrupting the business of Christmas shopping. But Christmas is for strangers. I can't express clearly how important strangers are, how crucial unexpected gentleness is. Nor can I articulate how the real meaning of a smile or a kindness surfaces when there is no reason to do it, no binding etiquette that demands it. The sad thing is that a lot of acquaintances are only that, calculative, purposive activity, or activity just to keep people at a safe distance. I can't really tell you about these things at all, but my inability to the contrary all that matters, and Christmas is the Celebration of things that matter, without which we would all stay strangers in the darkest and coldest of winters.

A festive and glorious Christmas of the Comet, and a love-lit 1974.



doonesbury

garry crudeau



after we faltered to U.S.C.? Alabama was in a state of sadistic glee-not only that they were champs but that they had gotten it away from us. And do you remember who won the Heisman trophy in '64--Huarte--not Namath. Only mention 1966 in Alabama and if tempers could be turned to energy the crisis would be solved. As Bama fans have it, our bowl policy was only an easy out for not facing certain defeat against Bama in the Sugar Bowl. The count has been lost as to how many times each year southern papers slur ND on that famous 10-10 tie. For us 1966 maybe a pleasant memory but for the Bama kids in '66 who are now players in '73 that memory is a gnawing hunger. For them those gold helmets are only going to make '66 dance in their heads. Then last year there was the fiasco between Ara and Bear over bowl site selection. In reporting the match-up this year one sportswriter began his article with--"now Bama has the chance to make Ara eat his words." On December 31 the red in Bama's eyes won't be just a reflection of their jerseys. They want the national title but they want us first. I can't convey the electric animosity that Bama has for ND, so as Willie Townsend said earlier in the year: "Enough's been said, the time is now."

so to hshell with justice." But the root cause of the problem, obviously, is the fact that there are 8000 students and only 1000 tickets. Of the tickets ND was allotted by the Sugar Bowl, 8 per cent were pegged for students and 92 per cent were reserved by the administration for God knows who. It is this ridiculous inequity, and the feeling of desperation it produced, which was the real cause of the mob scene at the ACC Monday.

Tim Kelly

Thermopylae?

Dear Editor,

Yeah, yeah I've heard it all before, it's quality, not quantity that counts. And I am sure in my biased way that a Notre Dame student can out-cheer any Alabama student. But 5,000 vs. 1,000? Somehow I am reminded of the Spartans at Thermopylae. Having it all over the Persian hordes in ability and moral, the Spartans were still beaten by the numerical superiority of Xerxes' army. It is my contention that cheering supporters do make a difference on a team and few alumni can match the enthusiasm of the same number of students. So, I would hope Mr. Bouffard and the others responsible realize that while contributing alumni are fine, the experience belongs to the students.

Yours truly,
Michael Ryan

"Crush-in"

Editor:
Anyone who participated in Monday's Sugar Bowl "Crush-in" at the ACC is probably wondering why it had to happen that way. The blame lies partly with human nature, but most of the credit goes to the Ticket Commission. These people displayed indifference to the student from the start, allotting 1000 tickets to the students, which were not enough for seniors wishing to go, let alone the student body. This is really poor if you relate some statistics which show that a regular season game gives 14-18 per cent (ND-SMC) of the seats to the students, while the Sugar Bowl allotment is 7 per cent, or less than half the regular ratio.

Rah-rah-ism, aside, this is a rather blatant insult to the students. I realize that students can't contribute \$\$\$ like alumni, but someday we will be in that position also, and this lack of respect does nothing but harm our memory. I would also hope I'll never become so narrow-minded as to take a ticket away from a student wishing to see his own team play.

Sincerely,
J. W. Wentling

No easy courses

Editor:
Ordinarily I welcome Course Evaluation Books, both here and at Columbia. The writeups are generally fair and helpful--more helpful than the silent rows of numbers which the local computer spews forth in its semiannual frenzy of quantification--and have, I think, contributed to the improvement of my courses. This year's CEB is an exception; and the fault is editorial, not among the reasons listed in Mr. Runde's preface. What I object to is having a verbatim reprint of last year's evaluation of the "Civil War and Reconstruction" course passed off as an evaluation of next semester's course.

Because of last year's evaluation--which was generally quite favorable, incidentally--I made some structural changes in the course. These changes were published by the History Department in its listing of course descriptions, a listing that is available to anyone who wants one.

Among the changes were: 1) a reduction of the reading requirement from fourteen books to ten; 2) a revision and updating of the reading syllabus; 3) a reduction of the written assignments, with the addition of an optional alternative; and 4) revised requirements for graduate students. Yet I now find last year's requirements republished as if they were current, along with the comment that these requirements are "inordinate." Maybe last year's requirements were heavy (although significantly lighter than those asked of a Columbia undergraduate major (oh, I get it!!!)); but this year I would prefer to be evaluated on

The purpose of a course evaluation is to improve a course. If improvements made as the result of a course evaluation are not considered when the course is again evaluated, a teacher has very little reason to continue considering the evaluations seriously.

Happily the CEB also got the course number wrong, so maybe people will ignore this writeup (hopefully this letter too.). Let anyone imagine that the reduction of reading by a third and of writing by half will make the new course any easier, my syllabus states that "B-minus" is the average grade in the course. And I don't take any easy courses either, so there!!

Cordially,
Bob Kerby

No evaluations

Editor:

It is time once more for the official, computerized student evaluation of courses. Why repeat the routine, skillfully managed though it may be, when obviously the administration cares nothing about student opinion? Witness the recent issue of the revised calendar, which at least serves the purpose of allowing students to share with the faculty a sense of futility. Perhaps this is what administrators have in mind when they harp on the term community.

How my colleagues feel I know not, but as for myself I will not go through the ritual again until the administration submits itself to an evaluation by students, to be assessed by the faculty. Students are as competent (in my judgment as incompetent) to judge the administration as the faculty.

From personal experience I have learned that those who speak for the Notre Dame administration often do not honor written commitments. This being the case, I would expect the administration cavalierly to dismiss any evaluation of a professor which it is deemed expedient to ignore. Why, then, continue the farce?

I am not going to put my reputation on the line (in spite of the past generosity of students), year in and year out, for the possible titillation of administrators who are accountable only to themselves.

Sincerely,
Fredrick B. Pike
Professor

Beat Bama

An Open Letter to the Team and Student Body

Everyone of you know that on December 31st we play Alabama for the national championship. So you might be content to think that the championship alone is enough incentive. It won't be for Bama and it better not be for us. For all of you who neither live in Alabama nor have experienced Bama hysteria--they are gunning for a lot more. You Seniors and Juniors have to reach back only to November 1971 for a painful reminder. In that year it was another Southeastern conference

foe-- L.S.U. Perhaps you'll remember the Observer reprint of an L.S.U. bumper sticker which read: "Go to Hell Notre Dame." Worse yet ND confirmed all the southern bad mouthing by losing 28-8. Well, that same L.S.U. sentiment is alive and well in Alabama. This time the bumper stickers run from the inane, "Notre Dame May Have the Pope--but Bama has the Bear", to the vicious "Damn Notre Dame."

You may still say--it's to be expected in a championship game--but you're wrong. This game means much more to Bama, to their state and to the South. Notre Dame is all they despise wrapped up in one. We are Catholic, we have an academic reputation, we are "liberal," and we are northern. Many southerners personally blame Heshburgh for a lot of civil rights laws and rulings. Four years ago a sportswriter from the Birmingham News came to ND to cover that first ND-L.S.U. bout. He returned to write a damning article about the university only mentioning our victory at the very end. He called our student body dirty, long-haired and radical; then he went on to say he was glad to be back in God's country and away from that heathen university. But this is only typical behavior of Alabama sportswriters--while home for Thanksgiving our local Howard Cosell announced that he was starting a hate Notre Dame campaign on his evening sports show.

But the animosity doesn't end with sportswriters but even extends to the playing field where we have never met. Do you remember who was No. 1 in 1964

Only 1000

Editor:

I would like to commend Joseph Abel for the constructive suggestions for ticket distribution which he offered in his editorial "The Ticket to Integrity." At the same time, however, I think he was unfair in his view of student behavior at the ACC Monday. A large part of the blame must be shouldered by the ACC itself, which failed utterly to make any provision at all (cordons, signs, etc.) for the large crowd they should have expected. Their attitude seemed to be "We know we're going to sell all the tickets,

Beat Bama,
Alex Shaice
Howard Hall

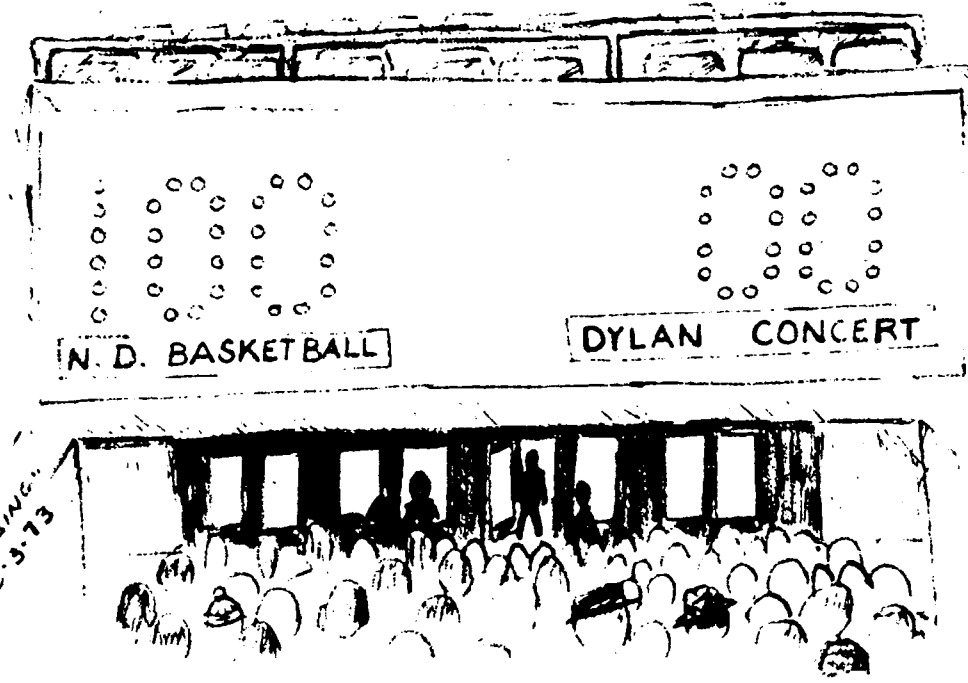
Two Views of Dylan and B-Ball

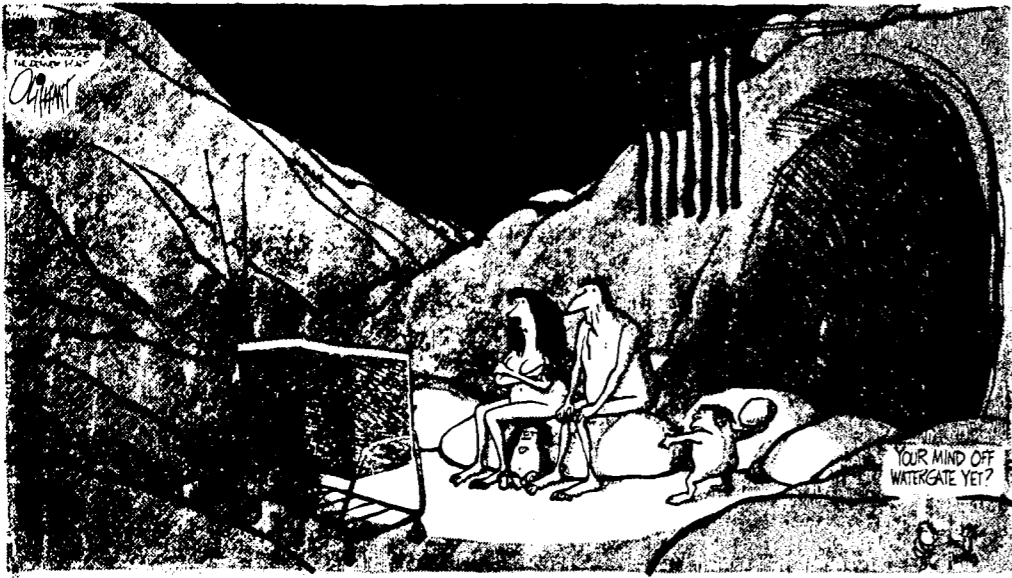
Dear Editor:
One would hope that Patrick Dillon would turn the same jaundiced eye with which he views Notre Dame to Dylan and Company. It hardly takes extraordinary cynicism to recognize that while the Dylan managers publicly based their cancellation on the possibility that they would not be able to set up their sound equipment in the four hours separating the end of the basketball game and the start of

their domo's performance, their probable motivation was the fact that their alternative to Notre Dame had considerably more seats, and thus cash, to offer. While Dillon expresses hopes that the Dylan cancellation is not "typical" of Notre Dame, he might recall that the basketball commitment was made long before the Jester decided to leave the sidelines. He might also recall that it was the Dylan organization that cancelled the performance. He

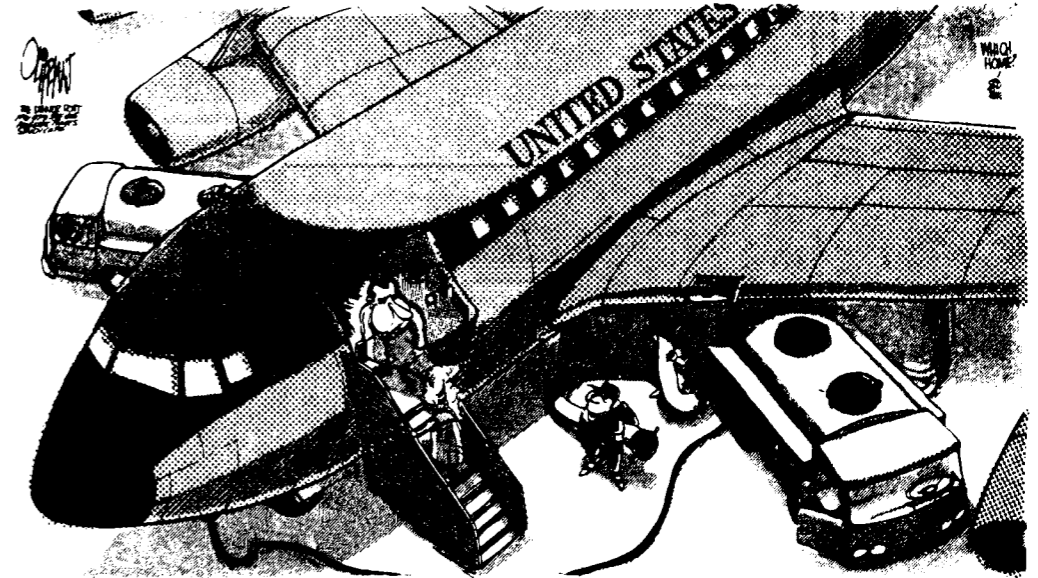
might also recognize that if anything is "typical" in this cancellation, it is the Fillmore and Dylan dedication to the big buck. He might also ask how much more money the ACC might have taken in were they to ruthlessly opt for the concert and cancel the basketball game, with its seats "two-thirds" full.

C.J. Nau
220 Keenan





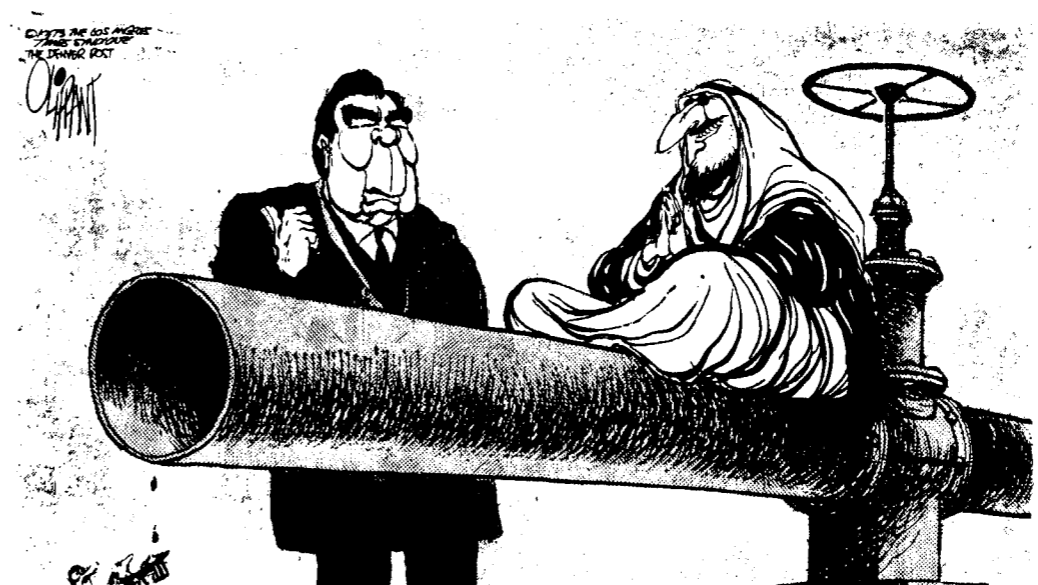
'SEEMS THERE WILL ALWAYS BE ENOUGH POWER TO BROADCAST THE LATEST CRISIS MESSAGE!'



'I HOPE ONE OF YOU REMEMBERED TO TURN DOWN THE THERMOSTAT BEFORE YOU LEFT HOME.'



STRANGE!
HE ALWAYS
STOPPED
BEFORE!



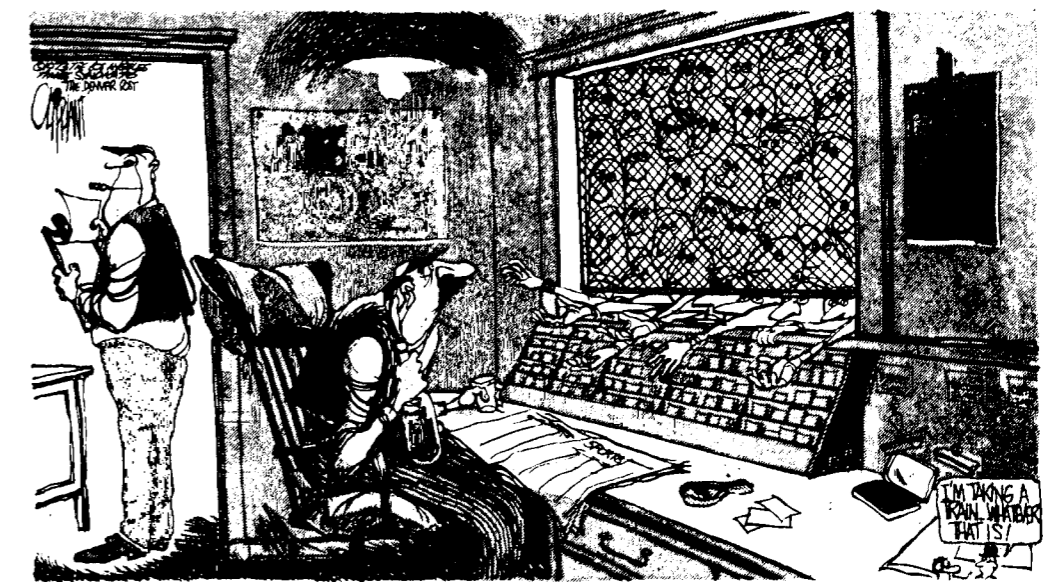
'DON'T WORRY IF THE WEST SHUTS OFF YOUR GRAIN SHIPMENTS—I CAN GET A GOOD DEAL ON THE AMERICAN STUFF!'

ENERGY

NO



'... BUT IF EVERYONE PULLS HIS WEIGHT, I'M SURE WE'LL GET THROUGH THE CRISIS OK!'



'I GOTTA LAY OFF THIS STUFF — I CAN SEE TEN THOUSAND PEOPLE AT THE WINDOW WAITING TO BUY TRAIN TICKETS!'

THE DAWG FOOT
EYES THE LOS ANGELES
THIR SANDIAXE

Letters To A Lonely God the lord of those who dance

reverend robert griffin



This is the year I would like to give a holiday party in the middle of Times Square with a Christmas tree, tinselled in silver and shimmering from the light of a million candles, that reaches ten stories higher than the tallest buildings in New York City. It would be a party where children from ruined villages in Viet Nam could come and find love; where old men could come and recover innocence; where old ladies could come and learn to be young again. It would be a party such as only God Himself could give, if he celebrated Christmas as I would celebrate Christmas, if I were as rich and clever and resourceful as God, and if, being God, I could get Mayor Lindsay's permission to use Times Square as the scene for wassailing and for the Second Coming of Christ.

But, of course, I am not God, a fact for which the Bishop, I understand is duly grateful; and to tell the truth, I'm rather happy about the arrangement myself. As a reigning deity, I have no sons to give; whereas God gave His only-begotten Son. It is the gift of that Son that makes all the difference of Christmas, even to a man who writes foolishness like me.

So having to make do with the hardships of creatureliness (even being God, I am told, is no bed of roses), I shall celebrate Christmas in the City in a limited, human way. On Christmas eve, I shall walk up Forty-second Street with Darby, me with a sprig of holly in my buttonhole, him wearing bells of sterling silver.

To the policeman, the con artist, the ingenue, the slumming rich lady, and the derelicts, I shall say: "Tis the season to be jolly....Fa la la la la, la la la la."

The policeman will sniff at me to see if I'm stoned. The con artist will try to sell me a wristwatch. The slumming rich lady will think I am trying to pick her up. The derelicts will ask for money, and the ingenue, smiling sweetly, will turn out to be somebody's brother

("Don we now our gay apparell, Fa la la la la, la la la la.")

I think the Lord Jesus, wrapped in swaddling clothes and lying in a manger, would have difficulty cracking the heart of that crowd on 42nd Street. With the suspicion natural to people who have learned to trust nobody, they would think He was a midget working as a narcotics agent, undercover division.

On Christmas morning, as I celebrate Mass, a restless wino will be sitting in the front pew; and for some obscure reason, he will switch seats at least a half-dozen times during the service. At the Sign of Peace, he will insist upon shaking hands with every Catholic in the church, even those who obviously despise restless winos, but don't know how to evade this worshipper's zeal. With peripheral vision, I will see the proper ladies staring with horror at the hand the wino has touched, as though that hand had just wiped the nose of a leper.

At Communion-time, a drunken man dressed as Santa Claus will come to the altar rail. He will be so drunk, he will notice that I have passed him by with the Eucharist. He will continue to kneel there until long after the Mass is over. Eventually, the pastor will call a policeman to lead him out of the church before the next Mass begins. I will hope that the children do not see Santa Claus led off by the law, drunk on the steps of the church.

In the afternoon, when the Masses are over, the doorbell will begin to ring; and if I am the priest on duty, I will answer the door to people claiming needs who know you are a professional Christian, and that Scrooge couldn't refuse an alms on Christmas. I can only say that the deserving poor are never less lovable than when they are being sarcastic over your inability to make their dream of Christmas green with money you don't have. Drunks are at their wittiest when they are commenting on your refusal of the price for turkey, and I know monsignors who should study their example as lessons on how to be self righteous.

On Christmas Day, faced with the needs of the poor of a New York rectory, or remembering the needs of students who suffer, or thinking with love of a mother, brother, sister, all of us separated from the other, I will wish I could invite the world to a party. I will wish I knew how to gather the needy ones around the manger whereon the Lord entered the kingdom of our lonely world. But, of course, each man must find his own way to the manger. No one gets hijacked to Bethlehem except on the shoulders of the Son of God.

So, Lord, in this year when I would like to give a holiday party in Times Square, what I really need to understand is that in the lifetime of God, there are always parties, and the day is always

Christmas, just as it is always Good Friday and Easter as well. More than this world dreams of, more than Forty-second street tells, there are daily celebrations for the sons and daughters who have returned home to their Father's house. Everywhere there are sounds as sweet as Christmas carols when words of love are spoken, even while the violins are tuning up and the fatted calf roasts on the spit.

What I really need to remember, when I am touched by the shabbiness of life on Christmas Day, is that the Lonely God of whom I write is also the Lord of those who dance; and that Christmas is the overture and invitation to the great dance in which all men move rhythmically before the Lord in all manners of motion, from the joyous jigs of grace to the slow,

solemn cadences like the death march.

So at this Christmas time of 1973. I greet you with love...not as the laureate of a lonely God, but as a twinkle-toed hooper of the heart, working in the chorus of the dancing God Whose stage stretches from Bethlehem and infinity

to the doorsteps of Forty-second street and the homes were your fathers and mothers are waiting.

I am sure I could give a lovely party in Times Square this year, but who needs it? As Darby O'Gill says: Don't forget to write: we never said we didn't love you. Merry Christmas!



turn your books into christmas presents

It's easy - when you finish with your books, you trade them in for cash! Then go out and blow it on your friends and family.

Whether you end up one fat Santa or a little short depends on how many books you've got to sell, what condition they're in, and whether or not there's a need for them nationwide.

Whatever you want to use the money for it will sure beat just letting them lie around collecting dust. So bring your books over to the professional book-buyers at the bookstore now, while your book is worth the most it will ever be.

Wait too long and the chances are you may end up playing Scrooge!

sell them for cash at
hammes-notre dame bookstore

university of notre dame

DECEMBER 13 & 14

The Colonial
Pancake House



"Enjoy a snack or dinner"

35 Varieties of Pancakes
Chicken - Steak - Sandwiches

U.S. 31 (Dixie Way) North
(Across from Holiday Inn)

Your Host
Bob Edwards '50

'way down yonder . . .

New Orleans. Founded in 1718 by Bienville on a crescent in the Mississippi River, the city has since been nicknamed "The Crescent City." A curious blend of French, Spanish and Indian influences, New Orleans still maintains a European flair 170 years after the Louisiana Purchase.

Probably the most famous part of the city is the French Quarter. Originally named the Vieux Carre (the Old Square) the Quarter is bounded by Canal, Esplanade, North Ramparts Street and the River. This area of some 100 square blocks, narrow streets, and long buildings is renowned for its restaurants, bars, musicians, and artists.

The French Market, at one time the center of the Vieux Carre, still serves as an open market in the early morning hours, but today it is more known for its coffee stalls. The best are Morning Call and the Cafe du Monde. Neither ever closes, and it is a New

coffee and donuts at dawn is a new orleans tradition

Orleans tradition to go for coffee and donuts during the first hours of the morning. These are not ordinary coffee and donuts, however. The coffee is flavored with chicory or just about anything else you might want. The French donuts, properly called beignets, are served hot and are covered with powdered sugar. From the sidewalk patio of the Cafe du Monde you can have your picture painted or sketched, but be forewarned that prices can be stiff. The

artists themselves are a storehouse of information about what is happening in the city, legal and otherwise, but they expect a certain indemnity for their trouble.

Don't bother with the buggy rides that originate in Jackson Square—unless you get a rare driver, he won't be able to point out many sites. Do, however, rent a bike from Billy's Bike Boutitique, and scrutinize the city from a two-wheeler. Billy can be reached at 522-8271, but bikes (as well as horses) are also available in Audubon Park.

America's oldest cathedral, St. Louis Cathedral, faces Jackson Square from Chartres Street. On either side of it are buildings of the State Museum. The Presbytere on the right originally served as a residence for the clergy of the cathedral. On the Cathedral's left is the Cabildo. It once housed the Spanish Colonial government. Now used as museums, the Presbytere and the Cabildo house an assortment ranging from the costumes worn at Mardi Gras for over 100 years to the cannons of Jean Lafitte.

The Quarter itself is a gastronomical delight. Antoine's on St. Louis Street has been one of the world's most famous restaurants since 1840. It is a classy place specializing in French foods. The wine list is extensive and prices soar, of course, but so does the quality of service and food.

Galatoire's Restaurant on Bourbon Street offers French and Creole cuisine. The old-fashioned decor and excellent service make for delightful atmosphere.

Other places with a European accent include Arnaud's on Bienville, for Creole food, and the Court of Two Sisters on Royal Street, also featuring French and Creole cuisine. Meals are served in the famous Courtyard of inside. One of the Court's

specialties is breakfast served in the old traditional Plantation manner.

The Progresso, across from the French Market, serves, mufalottos, an Italian sandwich of ham, cheese and crushed olive sauce. Mufalottos are only about a dollar and make a tasty lunch.

Other dining spots are the Gumbo Shop on St. Peter's Street and Houlihan's Old Place

Saturday. Fountain's schedule is not as predictable.

Pat O'Brien's is the home of the famous Hurricane. The drink is served in glasses shaped like hurricane lamps which are given away as souvenirs. O'Brien's offers nightly entertainment with pianists and vocalists.

All of the places mentioned here are quite

the beguiling streets of the quarter are filled with tourists, actors, musicians. . . prostitutes, painters and crooks

on Bourbon. Houlihan's is good for oysters and just about any type of seafood. Brennan's is noted for its expansive breakfast, but some patrons feel the quality has fallen off in recent years.

The beguiling streets of the Quarter are filled with tourists, actors, musicians, off-duty strippers, writers, prostitutes, painters and crooks. It's a good idea not to walk alone through the French Quarter, but it's not dangerous at any hour if you're in a crowd. If alone, be prepared to be accosted by drunks, gays, street-walkers, boors and other assorted derelicts.

The Crescent City is not lacking in entertainment. The legal age is eighteen and most nightclubs welcome students. Reservations are necessary at some of the better and more expensive places like Al Hirt's and Pete Fountain's. It's also a good idea to be sure that Hirt and Fountain are playing on the nights you intend to go. Hirt plays Monday, Thursday, Friday and

conscious of their images. Obnoxious drunkenness is frowned upon, especially by the bouncers who have no qualms about roughly ejecting anyone.

Uptown there are the college bars, frequented by the Tulane crowd and students from LSUNO. Friar Tuck's on S. Claiborne is just off of the Tulane campus. Prices are lower than in the French Quarter. The usual Tulane crowd will be on vacation so you may squeeze in. The Library—you won't feel so far away from ND here—on Elysian Fields, is a little classier than Friar Tuck's. Nearby is the Barrell which is decorated like an English pub. We recommend this one, for prices are reasonable and the crowd is generally out just to have a good time.

Don't miss the jazz places while you're in New Orleans. Economy Hall located in the Royal Sonesta Hotel houses the Underground Jazz nightclub. The groups are well-known and always good. There is a cover charge of \$1.75 and drinks run over a dollar and a half.

Armand Hug plays at the Esplanade Lounge in the Royal Orleans Hotel on St. Louis Street, one of the most elegant entertainment centers, and prices are set accordingly, but the cocktails and hors d'oeuvres are among the best in the city. The Lounge usually requires a coat and tie be worn during the evening.

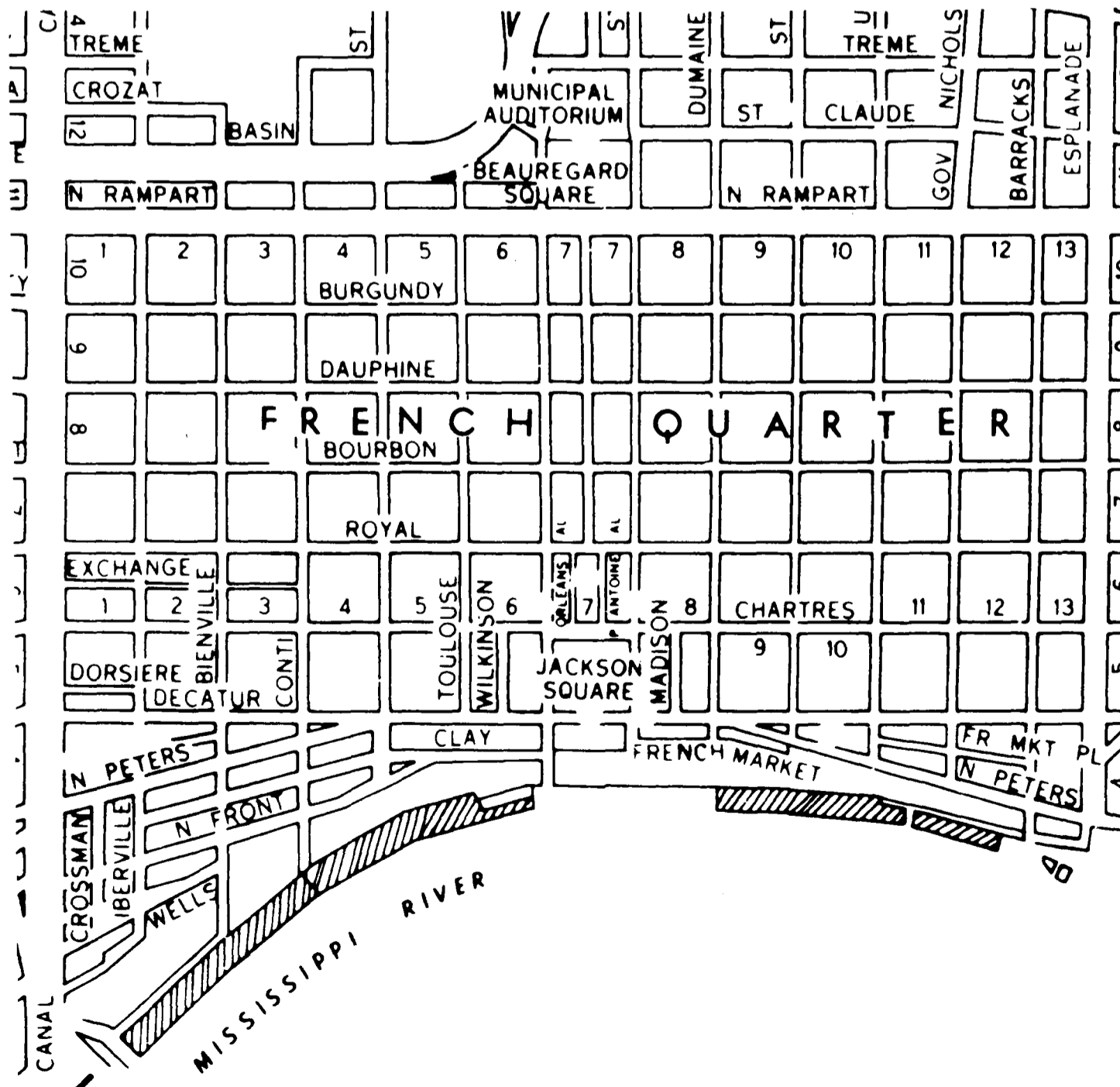
Heritage Hall on the Rue Bourbon features traditional New Orleans Jazz. The New Jazz Museum on Conti Street presents

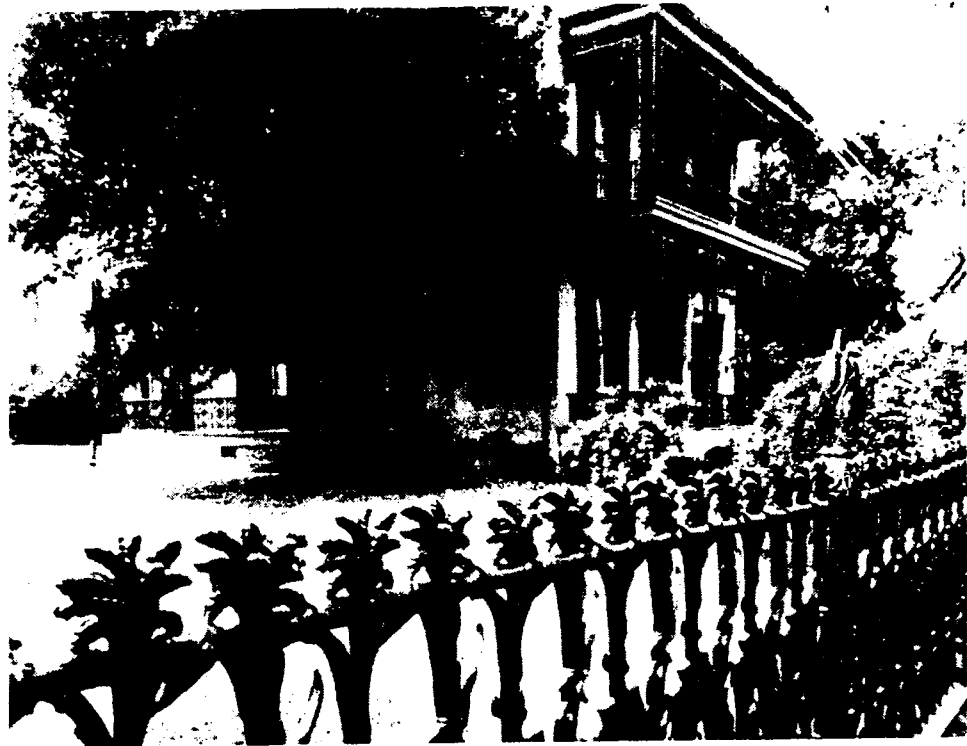
don't miss the jazz in new orleans

a live performance as well as a preserved history of Jazz.

New Orleans offers a host of other attractions. The area between the River and St. Charles Street is known as the Garden District. Here there are streets and streets of antebellum homes complete with the long veranda and high white columns. Occasionally tours of the houses and gardens are provided, so call the New Orleans Tourist Commission for more information.

From Jackson Square you can walk towards the river. On the levee is Moonlight Walk, a good place to view the river or stroll in the moonlight. Two riverboats operate daily tours of the river itself. For a slight fee, the Mark Twain or the President will take you either up or down the river. There are short excursions designed to show you the city from the river. Or you can take a longer afternoon cruise which goes up into the bayous where Cajun





The harvest of Louisiana's coastal and offshore water is more than evident on the tables of New Orleans' restaurants. Almost since the days of the city's founding when French, Spanish, African and Indian cooking skills combined to form Creole cuisine, seafoods have been its basis.

The Cornstalk House, a pre-Civil War Home in the Garden District of New Orleans is famous for the "Cornstalk Fence" which surrounds it. The fence was uprooted from a home in the Vieux Carre and moved to this home.

. . . in new orleans

by j. r. baker

Photos courtesy of the New Orleans Tourist Commission

life is much the same as it was a hundred years ago.

Everyone should see Lake Pontchartrain while in New Orleans. The Lake Shore is the place for the city's lover. There is also an amusement park which boasts the Zephyr—one of the highest roller coasters anywhere. Picnic tables, benches and a seawall are located along the Lake for plain relaxation.

Both the City Park and Audubon Park are worthwhile attractions. The City Park offers the regular park attractions as well

the park that provides a good view of the river and part of the city.

Be sure to see the cemeteries in New Orleans. Just catch the Cemeteries Bus on Canal Street. The tombs are above ground because the water table is so high that graves below the ground would produce stench and floating corpses. In one of the cemeteries at the end of Canal Marie LeVeaux is buried. For those of you not up on magic, Madam LeVeaux was a real life Voodoo Queen.

On Orleans Street is the Salle D'Orleans. Here in the last century many of the naughty Quadroon Balls took place. At these balls, virginal quadroons were offered by their mothers as concubines to the young white men of the city. Once a gentleman selected a quadroon or two, or three—he set her up for life in a section of the town. A hundred years ago, Thomy Lafon—a free man of color—bought the ballroom and donated it to the Sisters of the Holy Family. It was then turned into a Negro orphanage and the ballroom itself was used as a chapel. Public transportation is quite good in New

Orleans. Both busses and streetcars are available. For fifteen cents you can go anywhere in the city or surrounding suburbs.

The weather at New Year's in New Orleans is mild and balmy. The average temperature is 57 degrees. An umbrella isn't a bad idea, although generally there are only four to ten rainy days in December. Louisiana weather, however, like South Bend's, is unpredictable.

New Orleans has sometimes been labeled

as the city of sex and sin. Whether that's true or not it's a fun city. Only don't mention to any LSU people that you're from ND.

A few hints: If you don't want to sound like the average tourists. Natives of the City say New Orleans with three slurred syllables, not New Or-lee-ans, not New New Orleans. Also don't ask for praa-leens. They pronounce it prawlines. And never say "pee-can." Louisians say it with a short e.

Bon voyage.

at the dueling oaks,
gents of a day gone
by settled their
differences

as the Dueling Oaks where feuding gentlement once settled their differences. Audubon Park, named for John James Audubon, includes a zoo as well as a levee in



In the unembellished atmosphere of such places as Preservation Hall (above) and Heritage Hall in New Orleans some of the greatest traditional jazz in the world is played. Every night visitors to these "donation halls" work their way in to sit on rustic benches and jam into corners.



Jackson Square in New Orleans is a comfortable spot to stop stop for a few minutes on a walking tour of the French Quarter—and it is probably the best place to stop because it remains the hub of the old city

Christmas lights bring spirit to downtown Salt Lake City

SALT LAKE CITY (UPI) — Deciding Christmas lights at home are more important than energy shortages elsewhere, Salt Lake City commissioners have ordered downtown decorations lit Monday night.

The lights, which normally go on the night after Thanks-

giving, had been scheduled to be shut off on Dec. 14 because of the energy crisis.

But the commissioners moved the time up five days at the request of Marilee Latta of the Downtown Merchants Association, who said they would bring Christmas spirit to the area.

Commissioner Stephen Harmsen agreed, noting there is no local threat of electrical shortages this winter.

Commissioner James Barker said leaving the Christmas lights off would be similar to asking Salt Lakers to go hungry one day a week because there is a famine in India.

Commissioner Stephen Harmsen agreed, noting there is no local threat of electrical shortages this winter.

Family life and mental development cause problems for the retarded

(continued from page 9)

a playgroup for the young child at Logan Center which gives the children an opportunity to be with other children of a similar achievement level."

Other services include a Homestart teacher, a speech therapist, an occupational therapist and a parent's group.

At age five, Joel will enroll in Logan School which recognizes the needs of slow learners and instructs accordingly. Weekday academic and physical education include reading, writing, spelling, swimming and speech and hearing.

Saturdays the less severely retarded children like Joel participate in the ND-SMC Council for the Retarded Recreation program offering arts and crafts, gym, swimming and sing-a-long.

Coordinators Jay Long, pre-med senior, and Klem Bartosik, a sociology major, include parties, field trips to the Brookfield Zoo, a farm and ND football and hockey games on the agenda. Bowling, basketball, swimming and musical lessons are sponsored during the week.

"There's no doubt that without student volunteers' help we wouldn't be able to accomplish what we have," said Locke. "We have no funds to replace the volunteers."

Upon graduation from Logan School between the ages of 16 and 18, Logan Industries social workers will employ real and simulated jobs for preliminary assessment of his vocational skills.

Directives preparing him for placement in competitive employment will be set by PERC, the Program Evaluation and Review Committee, based on verbal, mathematical, perceptual and physical examinations. PERC comprises all those who have worked or will work with Joel, including doctors, and psychologists.

A work-study program eases Joel's transition from school to Logan Industries by introducing schedules, regulations, contracts, and simulated work and by teaching other skills necessary for everyday living.

Joel's choice of jobs at Logan Industries might range from collating and metering mail to color-keying brake cylinders to overhauling telephones.

A community job such as bussing, housekeeping or maintenance should follow Logan Industries.

In reference to housing, his mother reveals that the CFR's residential services committee is investigating a group home or apartment living situation that will allow mentally retarded adults to live independently. She contends

this will alleviate the common fear of "what happens to my child when I'm not here anymore to take care of him."

Other Changes

Beside the improvement in mental care and training institutions, the new public attitude is manifested in federal legislative moves and community employment increases.

Effective January 1974 is a social security measure awarding benefits to mentally retarded individuals based on personal income, not on parent's income, thus allowing them to purchase independently.

Mrs. Thorne reports community employment of the handicapped is on the upswing, although "there are never enough jobs."

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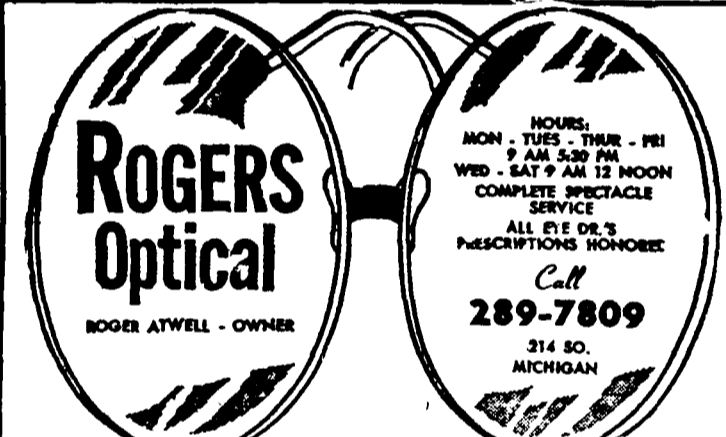


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The modern way

Nuclear power: fighting the energy crisis

(continued from page 11)

ONE OF THE MAJOR CONCERNS of people on both sides of the Cook plant issue is what the effect on the ecology in and around Lake Michigan will be.

According to John J. Risser, assistant director of the Notre Dame Radiation Lab, almost two-thirds of the heat generated at the plant goes into the lake instead of to the turbines. This problem is not unique to nuclear plants, though.

Kiander noted that most power plants are located near some body of water, not just because of hydroturbines, but also because of the need for a coolant in steam turbine plants.

In reference to the Cook plant, Kiander said, "We are limited by the Michigan Department of Natural Resources to an area equal to 833 acres for our mixing zone, 3400 feet from the point of discharge, the temperature of the water cannot be more than three degrees higher than the ambient temperature of the lake." She added that the plant expected to have to utilize only 570 acres as a mixing zone, or about two-thirds the allotted area.

Another controversial point involves radiation discharged into surrounding areas. Information supplied by the Cook plant states that little or no radioactive water will be returned to Lake Michigan. In fact, the sun will put more radioactivity into the water than the plant will.

By law, a nuclear plant can not discharge radioactive wastes into the air. Because a nuclear plant burns no fuels, it has no smokestacks and discharges nothing.

However, as Risser pointed out, the law is not uniform in that it says nothing about fossil-fueled plants. Risser stated that about one part in every million of fossil fuel is radioactive. Therefore, a plant that burns 20,000 tons of coal a day burns about two pounds of radioactive fuel. In short, a fossil fuel plant puts more radioactivity into the air than a nuclear plant does.

ANOTHER OF THE ADVANTAGES that nuclear power has over coal is that one pound of uranium ore can produce as much energy as three million pounds of coal, without giving off any waste such as smoke or soot. However, coal is much more plentiful, with reserves expected to last from 300 to 700 years. Uranium reserves are only guaranteed for about 50 years.

Although the known sources of uranium in this country are expected to last only about 50 more years, scientists hope to perfect "breeder" reactors in the near future, says Risser, to alleviate the nuclear shortage. A breeder is a type of reactor which will, simply, make larger amounts of uranium from smaller amounts.

OPPONENTS OF THE NUCLEAR PLANTS can cite the Atomic Energy Commission's own surveys to support their arguments. According to an AEC report released this year, a total failure of all safety systems in a plant near a large city could result in as many as 45,000 deaths and up to \$17 billion in property damage.

As all nuclear plant information points out, an explosion is impossible due to an insufficient amount of radioactive material. However, because fission occurs, there is some radioactive material in the reactor.

As fission occurs in the reactor, the uranium becomes radioactive at the rate of about 1 per cent per year. The center third of the 96-ton uranium core is removed and disposed of once a year, but it is more radioactive at the end of the year than at the beginning. Usually a chemical company will reprocess the element and recover close to 99 per cent of it. The radioactive one per cent will then

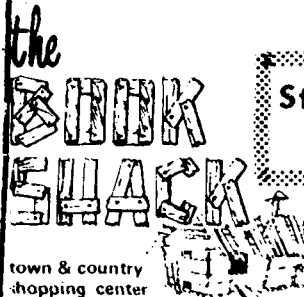
be sealed and stored.

Should a situation arise where, at the end of the year, a leak in the main system is followed by a failure of both the primary and secondary safety cooling units

along with a malfunction of the control rod devices, then a catastrophe could occur.

However, the chances of all systems failing at once like this is quite slim, AEC officials assure.

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Notre Dame's icers face rugged holiday schedule

by John Fineran

Ah! Finally! Snow. You know Christmas is not far behind. And while most of us students will be enjoying the holiday season at home, another group of students, the Notre Dame hockey team, will not be able to enjoy the Christmas break as much. The Irish icers begin tonight a 10-game schedule which will span the next 37 days.

Michigan is the first hurdle for Lefty Smith's 3-6-1 Irish. The 10-game slate ends January 11 and 12 in the Rockies as the Irish take on Denver, a team with which they split in the A.C.C. last weekend.

In between, Notre Dame plays eight straight home games with Central Collegiate Hockey Association power St. Louis providing the bookends. The Irish Play St. Louis a week from tomorrow, December 15, in the A.C.C., and the Billikens come in for another visit Wednesday, January 9.

The Notre Dame team bus has already left for Ann Arbor. Hopefully, the fuel shortage and the current truckers' slowdown on the highways won't create problems to the Irish making the 8 p.m. faceoff with Michigan. (WNU 1490) will carry both tonight's and tomorrow evening's games at that hour. The Wolverines as a much-improved club, will present enough problems themselves.

"Michigan is 100 per cent improved over last season," Smith said. Indeed they are because last season, the Wolverines finished in the WCHA's cellar with an overall 5-28-1 mark. This season already, Michigan has matched last season's entire win-production against four losses and a tie. Much of the credit should go to new head coach, Dan Farrell, a former assistant to John MacInnes at Michigan Tech.

Farrell has some notable talent in sophomore goalie Robbie Moore, defensemen Tom Lindskog and Randy Trudeau and forwards Don Fardig, Angie Moretto and Randy Neal. Already this season, the Wolverines have pulled off two coups, victories over Wisconsin and state-rival Michigan State.

Smith's Irish will be at full strength for the first time since the Wisconsin series. Tri-captain Ian Williams returns from a misconduct suspension, and All-America defenseman Bill Nyrop returns 10-pounds lighter after a bout with the flu.

The forward lines will be shuffled a little bit. Or course, the Pat Conroy-Larry Israelson-Ray DeLorenzi line remains intact, tri-captain Ric Schaefer and Eddie Bumbacco will be joined by Williams and Brian Walsh will center Clark Hamilton and Alex Pirus. The last trio is an all-freshmen one. Tim Byers, Pat Novitzki and Mike Tardani will be the penalty killers.

Tri-captain Steve Curry heads the defense and will pair-up with freshman Jack Brownschidle.

Nyrop and freshman Paul Clarke will be another duo as will Les Larson and freshman Roger Bourque, who impressed in last Sunday's overtime win. Mark Kronholm will resume his customary spot between the pipes during the weekend.

St. Louis (the dates mentioned before) is currently 7-2 this season. The Billikens and Irish have met before in the finals of last season's ECAC Holiday Hockey Festival in Madison Square Garden, and St. Louis skated away with a 5-3 win.

Coach Bill Selman has outstanding goaltenders in Ralph Kloiber and Carl Sapinsky, and his forwards are led by Rick Kennedy (96 points last year), Joh Nestic (83), Dave Davies (78), and Sean Coughlan (72).

Harvard and Boston College, two Eastern powers, will skate into the A.C.C. December 29 and 30 respectively. It will be Notre Dame's first meeting with the Ivy League Crimson, and the Irish will be out to avenge last year's 11-4 loss to Golden Eagles. The BC-ND series is knotted at 3-3.

Minnesota-Duluth, winless in six contests in the WCHA this year, will come into the A.C.C. for a pair of games January 4 and 5. Each will count for two points in the league race. The Bulldogs of Terry Shercliffe have an outstanding goaltender in Jerome Mrazek.

So while the first ten games have been turned up nothing but coal for the Irish, Notre Dame has a chance to change all that into gold this holiday season.



Last year, Eddie Bumbacco humbled Michigan's Robbie Moore. Tonight, Moore would like to turn the tables, and he's having the kind of season which might enable him to do just that. Bumbacco, on the other hand, has been struggling this year.

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Lost: class ring '75, lt. blue stone "Mike Diner" inside. Reward. No questions asked. 1470.

Lost: set of keys on "Lovebug". Call 7409.

Lost: Government and philosophy notebooks in library. Reward. No questions asked. Am doomed without them. Jim 1874.

Found: black frame glasses outside Dillon Call 1272.

NOTICES

From Cleveland or Detroit and looking for a ride to the Sugar Bowl? Call Dan at 282-1568.

Kill ugly radio. Volunteers needed to help. Bring progressive rock & roll back to WRBR. Come to Pandora's, 602 N St. Louise and sign up. Organization meeting to be announced. People to petition, rap, put up posters, money too.

California Club - check in at travel agency to see if you were one of the first 40 to sign up or if you desire your refund, as soon as possible. LA charter & SF group rate canceled. LA group rate TWA still available.

LONDON SHOW TOUR: March 9-17, 1974, \$424 from SB. Includes air, accommodations, fix. \$100 deposit due Feb 1, 1974. Call Sister Jean Klene 284-4516.

Students from New Mexico and the Southwest: Let's help each other get home for Christmas. If you have room in your car, or need a ride, call 7833, leave name and date you can travel.

Morrissey Loan Fund can loan up to \$150 at 1 per cent interest, 1 day waiting period. Basement of LaFortune. 11:15-12:15, Mon-Fri.

Got books you don't want? Come to Pandora's from 2:30-3:30 and we'll buy them, paperbacks or textbooks. 602 N. St. Louis.

Have your bicycle winterized. Will not rust, even if left out all winter. Call 272-8697.

Rides from Indy or Louisville to New Orleans for Sugar Bowl. \$50 round trip, leave 12-8 return Jan 1; call (317)257-0628.

Having trouble finding a hotel room in New Orleans for the Sugar Bowl? Problem solved - call Chris 272-9595 for a confirmed reservation at Hotel Roosevelt.

Logan Volunteers: Last Saturday rec of semester! If you can't make it please contact someone who is going for info about Christmas party.

Free folk concert in Flanner's America - Friday 7:30 - 1:30

See Lady Macbeth in the nude! Monday night at the engineering auditorium.

The Company of the Ring leaves Rivendell, headed South. (Dec. 25) Mardi Gras '74: The Master of Middle Earht

THE BEATLES: An informal four hour history from the days of the jellibabies to the days of Apple. Sunday night: 10 pm till 2 am. WSND am-640 WSND fm; 88.9

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10-speed bike for sale. Cheap. Asking \$50. John 8549.

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FOR RENT

4 BR house, recreation room, study, fireplace, wall to wall carpet, just renovated, completely furnished. Jan. semester or immediate occupation. All Brasseur 289-2461.

One bedroom apartment near Notre Dame. Furnished nicely. Rate:; quite reasonable. Call after 6:00, Mrs. Kenelly, 233-4487.

WANTED

Keypuncher wanted - must be experienced & quick - can work your own hours - Begin now, job lasts til Jan 15. Min. 20 hrs wk - \$2.50 hr. 272-8857.

Hockey shinguards & helmet. Call Roe 1416.

Give a former domer a break - he's in Law School, she's in grad school in St. Louis. They need 2 Sugar Tickets. 4712, 8472.

Need Sugar Bowl fix. New fair offers rejected. Call 3157.

Need 2 adjacent Sugar Bowl tickets. \$\$ Ken 3797.

Will return from north NJ on 7 Jan. need riders. Call Leo 232-2721.

Need riders from Evansville, Ind area to Sugar Bowl. Call Janet 4163.

Wanted: one or two tickets to Sugar Bowl, call 6716.

PERSONALS

Christmas Joy and Peace to the Holy Spirit, the Pontiff, his Mistress, the Illegitimate Son, Agony in the Garden, Bodily Death, the Defender of the Faith & Songs-be-Heard. Love, Anti-Christ.

Happy Birthday AMD.. I'd stop time, but I'm dying to be corrupted. WCH.

A very merry Christmas and a ver happy New Year to all my kids. Love you, "Observer" Mom

Poor domer (knute) selling all worldly possessions to finance trip to Sugar Bowl. Experience the thrill of helping someone less fortunate than yourself. See "For Sale" section for details.

Ex-Farleyites: Come to the Christmas Talent Show Friday at 7:30 in the Farley Hall Chapel. Featuring Pop Farley and the Dem Poem singers.

" "

Who picked up my parka last week lunch. I have yours. Bill 8705.

HAPPY 21st BIRTHDAY P. III Special K, Big red, Little Toof+ Ugh.

RIDES WANTED

Need ride to NYC area. Fri, Dec. 21. Call 4275.

Need ride to Cleveland, Can leave Wed., Dec. 19. Call Greg 7065.

Need ride Dec. 27 from Erie, PA to Chicago area. Share \$\$, Call Phil 1023.

Need ride to Pittsburgh Dec. 21, call Bob - 3451.

Need ride Champaign, Ill, leave late afternoon Dec. 20 or Dec. 21. Share \$, Call Jim 1409.

Are you looking for a ride from Detroit or Cleveland to the Sugar Bowl? I am driving, need riders to share expenses, and can get you a motel room if you want. Call Dan at 282-1568 if you are interested.

IU, Kentucky top ND cage slate

by Greg Corgan

The holiday season traditionally means a time of goodwill, high spirits, and lots of gift-giving. Hopefully, for Digger Phelps and his crew tradition won't be broken as the Irish cagers look ahead to a tough six-game vacation schedule.

It would be in keeping with the Christmas spirit indeed if St. Louis, Indiana, Denver, Kentucky, Xavier, and Georgetown were all to offer the Irish a little goodwill, and a few gifts of their own. For certainly ND could come up with the high spirits to make the package complete and give Irish basketball fans a little (9-0?) treat heading into the battle with UCLA.

But while this may be the season of good tidings, and good cheer, if the ND hoopsters are to keep that zero on the right side of their record (which incidentally has become fashionable in Notre Dame sports this year) they'll have to exhibit some Ebenezer Scrooge-like characteristics when it comes to returning the favors.

"I'm not happy at all with the performance of our team at Ohio State considering the 21 turnovers we had," commented Phelps.

"We've got to get it out of our system because we can't afford to give up the ball that many times especially when we have to play on the road."

First of all, however they'll have to learn to be stingy with the basketball right here at home. Because this Saturday afternoon St. Louis comes into town to see if they can duplicate last year's 60-58 victory.

The Billikens have lost four of last year's five starters including leading scorer and rebounder Harry Rodgers, and a repeat of last season's 19-7 mark may be difficult. Nonetheless, left behind was starting center Robin Jones (6-10), and two other juniors, forwards Steve Walsh and Eric Jones. Unlike the Irish, St. Louis coach Bob Polk's starting squad does not include any freshmen. Seniors Charles Ries and James Brown (both 6-3) round out the first five.

The Billikens hold a 14-12 series edge over Notre Dame, and Digger Phelps is not one to take anybody lightly. "They're a big team," he explained, "they've got real good size, and they shoot well. The game's up here this year though and that could make a difference."

Unfortunately, one game that isn't "up here" this year is next Tuesday night's encounter with Bob Knight's Indiana Hoosiers. Rated number three in the nation, the Hoosiers love to play before their home crowd in Bloomington, and even though they lost last year's Big Ten MVP, Steve Downing, they'll be tough to beat.

"They're the number three team in the country," offered Digger. "What else can I say? Bobby Knight is a very good coach, he's done an excellent job down there, and they have a fine basketball team."

One of the reasons they do is because backcourt aces Quinn Buckner and Jim Crews, along with forward Steve Green are back for the '73-'74 campaign. Add to this freshman Kent Benson (6-11), last year's Indiana high school "Mr. Basketball," and prep All-America Scott May (6-6), and the term "fine basketball team" could be an understatement.

"We'll have to play an errorless game," added Phelps. "We'll have to be tough on the boards, and play pressure defense. Most importantly we'll have to be mentally prepared."

The Irish may be looking forward to the Hoosiers, but after that one they can't afford to overlook the Denver Pioneers. DU comes into town Thursday night, Dec. 20, and with them they bring ten returning lettermen including four starters from a '72-'73 squad which posted a 17-9 record.

After a short Christmas break, the Irish once again take to the road to face thirteenth-ranked Kentucky, Dec. 29 in Louisville.

The Wildcats are coming off a highly successful season of their own having posted a 20-8 record a year ago including a 65-63 win over Notre Dame and a fine showing in the NCAA regionals. Head coach Joe B. Hall lost but two lettermen from last year's squad although one of those losses was all-SEC center Jim Andrews.

However, the 1973 SEC champions return four starters including SEC Player of the Year Kevin Grevey. Much of the scoring load will fall on Grevey, who had an 18.7 scoring average last season, but guards Jimmy Dan Conner and Ronnie Lyons should take up some of the slack.

Down in Louisville those Kentucky folk like their Wildcats, and coach Phelps would much rather tangle with them here in South Bend. "It's that road schedule again," explained Digger, "down in Louisville in front of 18,000 people—it'll be tough. They've got some good-shooting people; Grevey, Conner, Lyons, they're all good."

But John Shumate, and company aren't bad either, and should they get by those Wildcats from the Bluegrass state, they'll have close to a two week layoff before Xavier of Ohio comes to town on the 12th of January.

Right behind them, and right in front of UCLA, is Georgetown. They travel to South Bend on the 15th and although the Hoyas posted a 12-14 record last year, they have 14 returning lettermen including all five starters, four of them only sophomores.



John Shumate and the rest of the Irish basketball squad will have a busier holiday season than most people. The Irish will battle with third-rated Indiana, and 13th ranked Kentucky as well as St. Louis, Denver, Xavier and Georgetown over the month long semester break.

"Georgetown should have a very good team," noted Phelps. "A lot of good ballplayers come out of Washington, and Georgetown has a lot of them. (Coach) George Thompson is a well-respected coach and has done a fine job there."

Thompson may be an excellent coach, however he can't do much of the playing. But the Hoyas aren't hurting there either, especially with the likes of center Merlin Wilson (6-9), the 14th leading rebounder in the country a year ago and GU's leading scorer, guard Jonathan Smith. This team

will certainly come to town upset-minded and hopefully won't catch the Irish looking ahead to their Jan. 19 meeting with the Bruins.

By the middle of January second

Frank Pomarico

Captain's Corner

The way I feel

Notre Dame 44, Miami 0. What a way to finish the season. The game last Saturday night was really a great climax to a great year, and it seems like all of our work—from the end of August until now—has really paid off.

Our offense has jelled into a very explosive unit, and it is complimented by an equally intimidating defense. But putting those things aside for a moment, it has been a truly great experience to be part of one of the better teams in Notre Dame's history.

Notre Dame. Those words mean a lot to me, and in the following paragraphs I'd like to try to explain why.

Four years ago, when I first enrolled at Notre Dame, I was a rather innocent high school boy. While here, however, I've learned a lot about myself athletically and socially, and have developed my whole outlook on life. By putting all of these things together I feel like I've really grown into a well-rounded person.

Athletically, I feel that I've gotten as much out of Notre Dame as was possible for me. The people I've met through football have had a major impact on my athletic career and my life. Those people—mainly the coaches and other players on our team—have reached deep into my athletic ability and have brought out the best in me.

Socially, I think this is what Notre Dame is all about: to be able to coexist with other people and discover what those people—from all parts of the country—are like. To be exposed to the different habits and ideas of other people I feel, is one of the greatest possible ways to become educated.

The final—and, I feel, the most important—impression Notre Dame has had on me is that it has developed my overall outlook on life. To begin with, I feel now that as long as one has his health and his friends and loved ones, well, then he has the basis of all that's really important.

The reason I say this is because money, fame, or material success doesn't seem worth a whole lot if one doesn't also have health and a few close friends and companions.

So be thankful for your health and your close friends because they are very important—they can, at least, always help you out or help you battle back against the tough cold world.

In looking back, I'd have to say that my four years here at Notre Dame were tough years and that they were hard to cope with, but that they also held some of the greatest moments of my life. They were, at the same time, a lot of good times, and I would surely relive them if that were possible—but it's not, unfortunately.

So in closing, what I would like to say to all the freshmen, sophomores, and juniors, is: try to enjoy the rest of your college days and live them to the fullest because you'll never get them back. One of the reasons I say this is because there's no job on earth where you can get up at 11 o'clock five days a week—and then go out to have a good time two or three times a week.

So, as I've said before, count your blessings and enjoy them—for they soon will come to an end.

I would, at this time, like to thank *The Observer* for giving me the opportunity this year to write about our team in my own way. Also, I would like to thank our whole Notre Dame family for all the help it has given us during the 1973 football season. One left.

Go Irish! Beat 'Bama.

Hockey request

Don Bouffard, Notre Dame's ticket manager, yesterday requested that students attending hockey games, especially in sections seven (7) and eight (8), refrain from standing continuously throughout the entire game.

Bouffard said he has had seven instances of season-ticket holders in section nine (9) complaining that they can not see the action at the far end of the rink due to students standing. As a result, Bouffard has had to give them new locations.

Bouffard, rather reluctantly, said, "If students continue to stand, we'll have to move the student season tickets in sections 7 and 8 to section 11."

haven't completed our film exchange with them, so we haven't had a chance to look at exactly what they do—other than in the Miami and LSU games.

"And in the Miami films I was too busy watching Miami, and during the LSU game we had a houseful of guests after Thanksgiving, and I could only get away for a play or two at a time.

"But they can throw the ball well, this much we do know. They bombed LSU with two long touchdown passes, and we'll want to sit down and look at just how they do work the passing game from the wishbone."

And it will take a long look, because the Crimson Tide offense, led by QB Gary Rutledge, does pass well from the wishbone. And it runs very well from the wishbone. The '73 edition of the Crimson Tide may, in fact, be one of the Bear's best Alabama teams.

But the same holds true for coach Ara Parseghian and the '73 edition of the Fighting Irish. And that is why the '73 edition of the Sugar Bowl may well be the one of the season's best college football games.

73 edition may well be the best

(Continued from page 22)

intensity matched by very few games during his 10-year stay at South Bend.

"We have never before entered a bowl game," he said, "with an opportunity to win the National Championship outright. We almost won in 1971, when we beat Texas in the Cotton Bowl, but then we needed a combination of things and a combination of upsets.

"In this instance, the National Championship rests on the outcome of the Sugar Bowl game, and for the first time we can control our destiny regardless of what anyone else does."

Ara is aware, though, that guiding Notre Dame's eleventh-game destiny to a Sugar Bowl triumph will be the most difficult task he's faced this season.

"We're playing an Alabama team," he said, "which has bombed everyone it's played and which has had success with the big play every time out. We

ND cagers erupt for third straight

by Pete McHugh

After an early scare by an inspired Northwestern team, Digger Phelps' Irish cagers took command in the final two minutes of the first half and went on to streak to a 98-74 victory last night in Evanston.

Led by John Shumate's 30 points and a tenacious full-court press, Notre Dame sailed through the final twenty minutes for their third victory of the season without a setback.

Tex Winter's Wildcats kept the affair close for most of the first

period with the score knotted on eleven different occasions. With 2:25 remaining before intermission, Shumate hit a short jumper to break a 35-35 deadlock. And then the Irish reeled off nine straight points to break the game open.

Dwight Clay's jump shot at the buzzer following a Wildcat score, gave the Irish a 46-37 lead which they never relinquished.

Brokaw, the junior guard from New Brunswick, New Jersey, hit his season high with 22 points behind Shumate. Freshman Adrian Dantley scored 20 points for

the night, but fouled out with five minutes left in the game. Dantley was too aggressive for the Big Ten referees as he garnered three offensive personals.

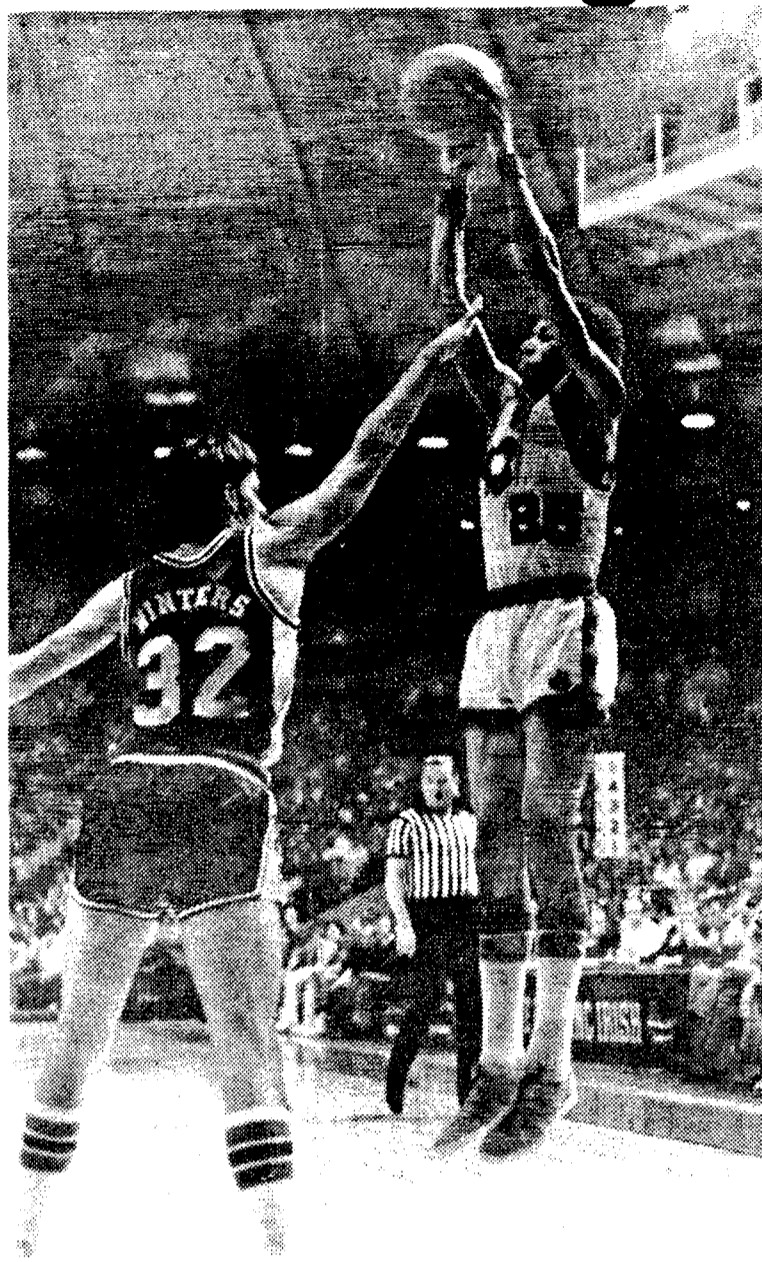
Roy Martin, the diminutive freshman play-maker, had only a field goal in the score column but was responsible for many of the 21 Northwestern turnovers. Martin, playing most of the second half, had numerous steals off the Irish press to frustrate the Wildcats.

While both teams lapsed into scoring droughts, Shumate was consistently accurate throughout the action, hitting seven field goals each half. The junior center controlled the defensive boards in the second half, sparking fast-break scores to Brokaw and Dantley. Shue's 30-point performance is high for Notre Dame this year and followed a 25-point effort Tuesday against Ohio State.

If the Irish were something less than "on-track" in the first half, they came on like banshees after intermission. With their "fast lineup" (Clay, Shumate, Dantley, Martin, Brokaw), Notre Dame pressed and fast-broke the Wildcats out of McGaw Hall.

In one stretch in the second half, Martin passed to Dantley for a short jump shot, stole a pass in the backcourt, and hit Brokaw for an easy layup. After a field goal by Northwestern's freshman phenom Billy McKinney, Dantley and Brokaw hit back-to-back field goals again. Brokaw came back after a Wildcat basket to score a three point play which gave the Irish a 20 point lead.

McKinney kept the score respectable for Northwestern with numerous scores from the 15-20 foot range. He led the Wildcats with 23 points while teammates Brad Cartwright and Bryan Ashbaugh added 18 and 12 points respectively.



Gary Brokaw exhibits classic jump-shot form. Brokaw leapt and shot for a personal season high of 22 points last night against Northwestern.

The Observer Sports Staff

The Irish Eye

Christmas gifts

The Christmas Spirit drifted into South Bend more than a month ago, on Thursday, October 25th, to be exact.

Late that afternoon, as the Fighting Irish football team concluded one of its weekly pre-game cheer sessions, the strains of a well-known song drifted out of the canvas-enclosed confines of Cartier Field. The lyrics were different, ("The 12 Days of Christmas") but the tune was familiar to everyone:

On the first set of down when SC had the ball,
Potempa made Davis heave.
On the second set of downs when SC had the ball,
Swann dropped a pass, we broke his...
And so on it went. Now, though, as the first week in December draws to a close, the Christmas Spirit has spread far and wide beyond Cartier Field. It has even spread to the second floor of the LaFortune Student Center and to The Observer sports desk.

And in keeping with the spirit of the season, The Observer's sports staff has rummaged through three months of game stories, features, and statistics, and come up with a Christmas gift list which should delight even the most discriminating Notre Dame sports figure.

If possible, the following personalities would find the following gifts waiting for them on the morning of December 25th:

Ara Parseghian—A Bearskin rug, color-coordinated to go with his pair of Texas Longhorns.

Johnny Wooden—A copy of *They Call Me Digger*, when finished on January 19th.

Jerry Carle, commissioner of WCHA officials—new ones.

Bob Thomas—a sterling silver kicking tee and the championship ring he's so long desired.

Brian Doherty—an ice-cold case of Bubble-Up to share with Thomas, his specialist sidekick.

Defensive line coach Joe Yonto—10 boxes of Mark IV cigars and an 11th if things go well on New Year's Eve.

Steve Niehaus—a leave of absence during the fourth week of the 1974 and 1975 football seasons.

Notre Dame's student body—Sugar Bowl tickets and an "open bar" during post-game revelry at Pat O'Brien's.

Mark Kronholm—fewer shots on goal; and, if that's too much to ask, the chance to hit a few of those shots back.

Anthony Davis—an autographed copy of the cover of *Sports Illustrated*, the cover he shares with Ross Browner, Drew Mahalic, and Gary Potempa.

Tom Fine—the complete collection of film reels from "The Andy Griffith Show" and "Andy of Mayberry."

Dwight Clay—the hard-cover copy of his favorite manuscript: *The Iceman Cometh*.

Mike Fanning—a long-playing album of "Merle Haggard's Greatest Hits."

Al Conover, head football coach at Rice University—a pregame meal, courtesy Fathers Hesburgh, Joyce, and Riehle, at Corby Hall, and the chance to shake hands with every Catholic in Notre Dame Stadium prior to next year's ND-Rice game.

Wayne Bullock—an 11-game Pittsburgh schedule.

Notre Dame's hockey team—points in the WCHA standings.

Steve Neece—a pair of boxing gloves for use the next time Miami comes to town.

Fr. Riehle—a brief hiatus from his busy schedule so that he can attend at least one Notre Dame sporting event.

Notre Dame's glass-tossing hockey fans—a touch of class.

Luther Bradley—a bottle of Grecian Formula 16.

Art Best—a parachute and a copy of *The Great Escape*.

Jake Kline—another 500 Irish baseball victories.

Eric Penick—a box of Kitty Litter.

Dan Morrin—a year's supply of crossword puzzles.

Ted Hesburgh—a congratulatory phone call from President Nixon on the evening of December 31st.

Frank Pomarico—a new car.

ABC-TV—a Sugar Bowl broadcast team of Howard Cosell, Chris Schenkel, and Joe Sassano.

Digger Phelps—the chance to take over Johnny Wooden's franchise on Gilbert's commercials.

Lefty Smith—a red cowboy hat with a white "W" emblazoned on the front. And an away-from-home sweep of Wisconsin that'll make him proud to have it.

Lois Walsh and Pat Sniadecki, the hard-working secretaries in Notre Dame's Sports Information Office—a bouquet of roses each.

Reggie Barnett—voice lessons.

Lindsay Nelson and Paul Hornung—the chance to "switch to further action" for many seasons to come.

Willie George, ND's behemoth shot and discus specialist—a year's supply of body-building/protein and a subscription to the muscle and health magazine of his choice.

And to these personalities and to everyone else—the Season's Best.

Season's best bowl game pits 'Bama, Fighting Irish

by Vic Dorr
Sports Editor

They crop up every so often, peering, cautiously at first, out of a jungle of schedules, conference games, and possible upsets.

Eventually, though, they emerge from the jungle. They emerge with boldness and verve, and they emerge to proclaim themselves the best things the Autumn season has to offer.

They are the big games—the biggest games—of the intercollegiate football season. And, like the first frost of November, at least one of them will appear each fall.

This year there have been several: USC-Oklahoma, Texas-Oklahoma, Notre Dame-USC, and LSU-Alabama. But the 1973 season, a season which has nearly levelled a once-impenetrable thicket of schedules and rivalries, has yet to force its biggest prize out of the underbrush remaining from more than two months of college gridiron action.

That prize is there, though. It made its first cautious appearance in mid-November, but has been gaining boldness and importance ever since. And when, on the evening of December 31st, the prize thunders from the tunnels beneath the Sugar Bowl Stadium, everyone is expecting it to be the biggest prize of all—a one-game playoff for the 1973 National Championship.

The Sugar Bowl's catch—a catch which will match Notre Dame's Fighting Irish and Alabama's Crimson Tide in the New Year's Eve showdown—was engineering by New Orleans' Mid-Winter Sports Association, and is a catch which has delighted the patient, persevering hunters who made it.

"We couldn't be more pleased," bubbled Monk Simons, the chairman of the Sports Association's executive committee. "We have Notre Dame and Alabama playing for the National Title, and also for the McArthur Bowl (which will be awarded to the winner of the ND-'Bama game), and we just couldn't be more delighted.

"Along with our basketball tournament it'll insure us of a double-sellout, and we've had, in the past few weeks, probably the greatest request for press

credentials in the history of the Sugar Bowl game."

But things didn't always look so rosy for the Sugar Bowl, or for Notre Dame. After suffering a pair of traumatic defeats in the last two games of the 1972 season, the Irish began slowly in '73, and didn't catch fire until the fifth game of their season, when they whitewashed Rice, 28-0, at Houston.

Since then, coach Ara Parseghian's team has been overpowering. It began the second half of its season with a 23-14 triumph over Southern Cal, and ended the year last Saturday night, with a 44-0 blanking of Miami. In between came Sugar Bowl rumors, Sugar Bowl scouts, and a Sugar Bowl invitation.

"What happened last year didn't concern us," said Simons. "We felt all along that Notre Dame had a sound ball club, and or scouts felt that it was one of the best teams coach Parseghian has had since he's been at ND. It was a great time for Notre Dame to come to the Sugar Bowl, too, particularly when Alabama decided to come.

"And when we got acceptances from both clubs on the 17th of November, we felt that our teams were of the caliber which would keep them unbeaten. We didn't necessarily think that our game would be for the National Championship, but we did think that we'd have two unbeaten teams. "Things," he said, "have just broken right for us this year."

Things have also broken well for the two teams who will face off in the Sugar Bowl. SEC champion Alabama (11-0) is ranked number-one nationally and has a wishbone offense which is averaging more than 480 yards per game, and a defense which has allowed just over 240 yards per game.

The third-ranked Irish, on the other hand, are scoring at a clip of 35.8 ppg., and surrendering points at a substantially slower rate—6.6 ppg.

But the citation catch made by the Sugar Bowl Committee in November included more than a pair of excellent college football teams. It also included Alabama's Paul "Bear" Bryant, and Notre Dame's Ara Parseghian, two of the most successful and most colorful coaches in the college game today.

And Parseghian, particularly, is looking forward to the New Year's Eve run-in with Alabama with an

(Continued on page 21)

Carpets vs grass: still debatable

by John Fineran

Injuries are a part of football. How well a team succeeds during any given season is determined by its ability to overcome them. Fortunately, Notre Dame has had enough depth during the last two seasons to overcome an injury which has stripped the Irish of the same member of the front four, Steve Niehaus.

Niehaus has never played the fifth game of the season during his two years here. Last season, while preparing for Notre Dame's fifth opponent, Missouri, he tore ligaments in his left knee. This season, while playing Notre Dame's fourth opponent, Rice, he tore the ligaments in his right knee.

This is where the similarity ends. The really interesting thing about Niehaus' injuries is the first occurred on natural turf, the second occurred on artificial turf.

Niehaus was one of three Irish players injured during the Rice game. Afterwards, head coach Ara Parseghian said, "We haven't had anybody hurt all season, and we hadn't played on synthetic turf, either."

"The sales pitch on synthetic surfaces was that it decreased injuries," he said. "On the contrary, I think it increases them."

Does it? I am not able to make a judgement. I do not know the first thing about medicine, but those who do have different opinions whether more injuries occur more on one type of field than another. All that can be done is to show some of the evidence, both pro and con concerning artificial turf, and hope someone will take the initiative to find the answer to this interesting question.

There are three different companies manufacturing synthetic surfaces in the United States: Monsanto (Astro-Turf), 3M (Tartan Turf) and American Biltrite (Polyturf). The first two companies responded to my inquiry while the third failed to follow up on my request. As a result, Polyturf will not be mentioned. All three, however, are similar in construction, having the synthetic fibers bonded to a shock-absorbing pad which is fastened to an asphalt surface.

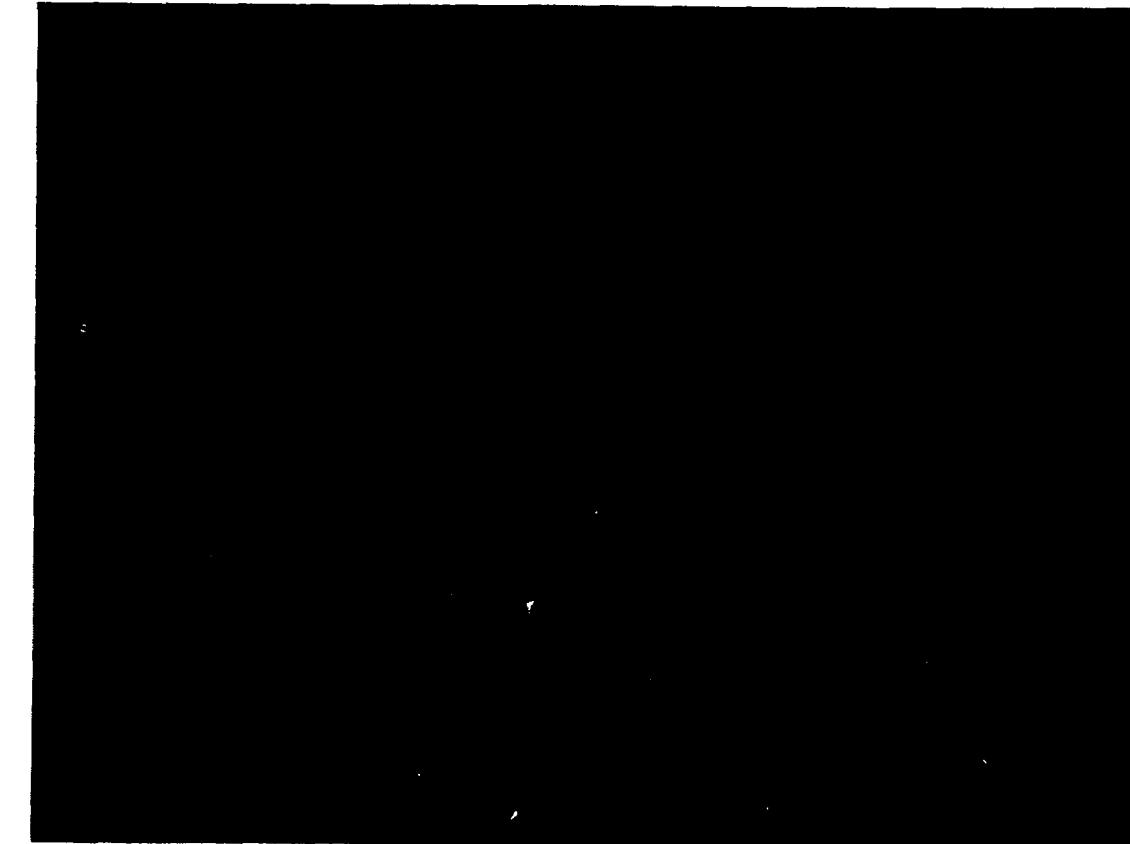
Well-manicured

AstroTurf uses a pile of green nylon ribbon. From a far distance, an AstroTurf field appears to be a well-manicured putting green. Closeup, it looks and feels like a new crewcut. Monsanto has installed several fields since 1964, with some of the notable installations being the Astrodome, Cincinnati's Riverfront Stadium and Busch Stadium in St. Louis. Rice Stadium is an AstroTurf field as is one of Notre Dame's practice fields on Cartier Field.

Tartan Turf is a lighter green than AstroTurf. At a close look, it gives the impression of being an oversized peach. The blades are round, thread-like nylon fibers. 3M has installed it in such places as Texas Stadium, Three Rivers Stadium and both the football and baseball fields of the Harry S. Truman Memorial Complex. Oklahoma, Michigan and Michigan State all have Tartan Turf fields.

No explanation should be needed to describe what natural turf is. You see it everyday you walk to class, and you see it everytime you sit in Notre Dame Stadium. It has no padding but the earth which lies underneath.

There have been four different studies concerning the injuries occurring on artificial surfaces as compared to natural ones. Three



The now-legendary Astrodome is one of the very first artificial turf athletic fields. Proponents of AstroTurf (and other such surfaces) claimed that their mod sod would reduce player injuries. But has it?

were made by independent sources, and one by a joint commission.

Dr. James G. Garrick, associate professor of orthopedics and head of the Division of Sports Medicine at the University of Washington School of Medicine, has made two such studies. In his first, *High School Football Injuries: A Pilot Comparison of Playing Surfaces*, Dr. Garrick found that synthetic surfaces produced 0.76 injuries as compared to 0.52 injuries on natural surfaces.

He also found that 0.93 injuries per game occurred on artificial surfaces while 0.53 injuries per game occurred on dry natural turf. "This was to suggest the possibility that tractional characteristics rather than impact qualities of the turf should be investigated as higher priority," he said.

Dr. Garrick's study received much criticism, particularly from Monsanto. The first study looked at injuries incurring in 228 high school games in the Seattle metropolitan area during the fall of 1970, eighty of the games being played on AstroTurf. Monsanto's own report claimed an 80 per cent decrease in knee and ankle injuries.

Garrick conducted another study in 1971, *Injury Rates in High School Football: A Comparison of Synthetic Surfaces and Grass Fields*, and this time he expanded the study to cover 660 games in Seattle and Spokane, Wash. and Portland, Ore. high school leagues. 424 games were played on natural sod, and the remainder on two synthetic surfaces, 183 on three different AstroTurf fields and 53 games on Tartan Turf.

Tartan Turf had the lowest rate of injuries per game, 0.28, while grass fields accounted for 0.51 injuries per game. The three AstroTurf fields produced an injury rate of 0.63 injuries per game. Garrick believes his two studies are valid because there has been no significant difference in the grass rate in both (0.52 in 1970 as compared to 0.51 in 1971).

Oddly enough, more injuries occurred on wet Tartan Turf (0.42) than dry (0.17). On the other two surfaces more injuries occurred on dry fields than wet.

Dr. Garrick also received criticism in one of the other studies conducted by Dr. Harry H. Kretzler. Dr. Kretzler's study, *Artificial Turf and Football Injuries*, covering injuries sustained during a four-year period in the

Seattle area, disagreed with the 1970 study, saying it was "a rather long step for a one-year study" to be sent to a House Subcommittee.

Dr. Kretzler raised several points in the report, saying, "Collision is the name of the game. If an artificial surface seems to accentuate this, I would tend to blame the game, not the surface."

He believed that "manufacturers are making an honest attempt to improve their product" because of the improvements in padding over the years. Abrasions are "the only injury that our coaches felt was related to the surface itself."

'The only way'

"The only way to reduce injuries is to make the footing less secure," he said. "This could be accomplished by either wetting the surface or using a shoe with less traction."

Dr. Kretzler called for more studies in all parts of the country, concluding, "...as long as it is a collision game players are going to be hurt no matter what surfaces they happen to be playing on."

The Joint Commission on Competitive Safeguards and Medical Aspects of Sports and its chairman, Dr. Samuel Fuenning, director of student services at the University of Nebraska, presented its own study analyzing injuries in 426 games during the 1970 season to the NCAA.

The report said its finding "add strength to our belief that the well-maintained playing surface, be it natural or synthetic, is not much of a factor in football injuries, one way or the other."

"We studied 317 games on natural turf and 109 games on all three types of synthetic turf played during the 1970 season," Dr. Buening said. "The over-all injury rate per game was 2.78 injuries per game on grass and 2.86 injuries per game on synthetic turf."

"It should be emphasized," the report said, "that these injury rates are for games played on surfaces only and in no way imply that the surface was the primary cause or even a contributing factor in the injury."

Interestingly, Dr. Buening found a greater frequency of injuries occurring on muddy fields. "We had more injuries resulting in hospitalization in games played in

mud than on any other surface," he said.

It is natural the two companies used the reports in their advertising campaigns. Monsanto even had a column appearing in a frequent advertisement in *The Sporting News* on its product.

In the article, *AstroTurf: As Loved as a Football Field Can Be*, reprinted by Monsanto with the permission of the Indiana University Staff News (Oct. 23, 1970), Tom Healion, head athletic trainer said, "The players at Indiana like the AstroTurf better because their legs don't get as tired working on it."

"One injury which has increased are burns. We get quite a few elbow and knee burns caused by sliding across the AstroTurf."

"Although the short cleats don't lock into AstroTurf, the artificial grass gives better traction to runners and so we haven't eliminated the torn knee and ankle ligaments."

"But the AstroTurf has cut down the severity of these injuries," Healion concluded.

John Pont, when he was Indiana's football coach, said, "I for one am not willing to go along with any surveys that state unequivocally that artificial surfaces are the reason for more injuries. We at Indiana are perfectly satisfied."

Cincinnati Bengals' coach Paul Brown, after having several players injured on the natural turf at Green Bay, said, "Did you stop to think what they'd be saying today if we'd played that game on AstroTurf? They'd be having a congressional investigation."

3M has done much the same thing as Monsanto.

'A fine product'

"We investigated all three synthetic surfacings on the market," Kansas Athletic Director Wasde Stinson said. "We think Tartan Turf is a fine product. Its underbase was a big factor in our decision."

"We are satisfied that Tartan Turf is an outstanding product," said Michigan State's former head coach Duffy Daugherty.

"The players have complained of what we call 'brush burns,'" Dr. Allan Ryan, Wisconsin's team physician said of the Camp Randall Stadium Tartan Turf in the *Wisconsin State Journal*.

"The players do complain a bit because of the hardness of the

surface, but I don't feel it leads to injuries. We made a study during the first year we had Tartan Turf, and found we had 30 per cent less knee and ankle injuries than the preceding year."

The National Football League Players Association has taken a strong opposing stand on the subject of artificial surfaces. The National Labor Relations Board even ruled that artificial turf is a mandatory subject of bargaining for players. Even further, the NFLPA has Dr. Garrick as its medical advisor.

"All the studies we've seen indicate that AstroTurf causes the most injuries," Ed Garvey, the executive director of the NFLPA, said. "Dry AstroTurf is even worse. Tartan Turf would be preferable for the Superdome (New Orleans). It has a better safety record from all the studies we've seen."

The NFLPA had sought from the Consumer Product Safety Commission a banning of further artificial installations until safety standards were developed. However, its request was denied.

Still, John Brodie of the San Francisco 49ers told of the 49ers' game in Miami in which six players, including himself were felled by the heat radiating from the surface. Washington safety Brig Owens recalled Cleveland Brown half-back Leroy Kelly slipping and knocking himself out.

Closer to home, Notre Dame has had an AstroTurf practice field on Cartier Field for the past two seasons. Three players—halfback Gary Diminick and offensive linemen Mark Brenneman and Frank Pomarico—all who have suffered injuries during the Irish careers, talked about artificial surfaces.

Differing opinions

"I don't mind the burns," Diminick (injured knee) said. "Maybe the trend toward injuries is because of the traction. It is good on artificial turf."

"I prefer grass fields," center Brenneman (back) said. "It does put strain on my back. It is a much harder surface."

Tri-captain Pomarico, a guard, injured his ankle in a pre-season scrimmage on natural sod. He likes artificial surfaces.

"If you are going to be hit the right way," he said. "It doesn't matter where you are. The field condition on artificial surfaces is not affected that much by the weather."

There is evidence in this report of differing opinions on the subject of artificial surfaces. Some speak highly of it; others are determined to ban its use.

These four injury reports really don't give the entire picture. They were taken over a few years. I think a longer, more comprehensive report is needed by an independent party, one which would not be influenced by any of the manufacturers of artificial surfaces.

Perhaps, the NCAA and NFL could institute a joint committee to explore this topic for a period of five to ten years. And, I think each group should encourage its members to participate fully in this important investigation. After all, it is their players, the backbone of football, who should be the important consideration in this study.

Further, I think the manufacturers of artificial surfaces should put more of an emphasis on improving their product than advertising its strong points. I have faith that they will.

Artificial surfaces can and should play an important part in football. However, before they do, some of the questions about their safety should be answered.

December 7, 1973

Dear Mom and Dad,

I couldn't get my exams changed
so I won't be home for Christmas.

Look for me on TV at the Sugar
Bowl.

Merry Christmas,
Happy New Year,
Your Son