Specific pollution results presented

The following is the second in a three-part series on the problems of pollution. This pressing problem will be examined in a Conference all day Thursday in the Library Auditorium. In this series, the Observer will interview some of the partipants and examine some of the problems.

The way professors Wayne Echelberger and Mark Tenny look at it, "water pollution destroys the uses of a body of water." In the case (pictured at left) the residents of nearby Cassopolis, Michigan are being deprived of the recreational facilities of Stone Lake. This lake, like many others has been over-nourished by nitrogen and phosphate found in the runoff from farms and the domestic sewage.

Among the projects sponsored by the Engineering Department is the clean up of Stone Lake as well as other lakes. "We are tackling this problem. It has been found that "fly ash" -unburned particulate matter from the stacks of coal-burning factories will precipitate the inorganic chemicals in the water. This will eliminate the "tea color" and cut down on the growth of weeds. Furthermore this fly ash forms a barrier at the mud water interface and retards return of bottom pollution to the lake. Air pollution regulation has forced the gathering of the "fly ash" so we produce each year and uses have only been found for 25% of it, a couple of birds with one solution seems needed.

Water pollution is significant to more than recreational lake users. In Chicago, "costs of pollution dollars are doubled" because "Lake Michigan is beginning to feel the pinch" and potential drinking water looks (continued on page 2)

The Observer
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Wood Queen

Last night an overwhelming majority of the Notre Dame student body selected Mary Beth Gallagher, a junior art major at St. Mary's, to be Miss Notre Dame at the Cotton Bowl Classic. Of the 2,215 votes cast immediately after the coronation and dance that night, the following tabulation was produced: Mary Beth Gallagher 1,119; Adrienne Zacher 520; Sonja Huber 260. Vigilante was third.

Marching Band will attend Cotton Bowl

by Don Ruane

Robert F. O'Brien, Director and Associate Professor of Bands, revealed yesterday that the University of Notre Dame Marching Band would go to the Cotton Bowl. The band will leave for Dallas on Monday, December 29 from O'Hare International Airport. They expect to arrive at Love Field in Dallas around noon (CST), according to Mr. O'Brien.

After the band registers at the Adolphus Hotel, they will leave for the J. Earl College Preparatory School where they will practice until approximately six p.m. The band has a full day of practice on Tuesday and on Wednesday morning at the school. On Wednesday afternoon they will have a dress rehearsal at the Cotton Bowl. O'Brien said the dress rehearsal was necessary because the band will participate in a "must band number at the close of half time activities.

Notre Dame will give its first performance on New Year's morning when they march in a nationally televised parade. The parade will start at nine a.m. (CST) and finish at eleven. Immediately after the parade, the band will go to the Cotton Bowl for pre-game activities. At this time, five high school bands will form a victory lane. The Notre Dame team will be introduced as it runs through the lane and the band will play the "Victory March." Following the introductions, the band will play the Alma Mater. O'Brien doubts as to whether the Notre Dame students would be able to join the victory lane because of its length. Half time will last approximately twenty-five minutes because three bands and a dancing unit will perform. Notre Dame will open the performance with a six minute routine. They will then be followed by the Kilgore College Rangerettes and the Kilgore College Band and then by the Texas Band. These groups will also perform for six minutes. The final six minutes of the half time show will be a rendition of "This is My Land" by the Notre Dame Band, the Kilgore College group and the Texas Band, and the five high school bands. The final rendition will be highlighted with a map of the United States formed by the entire group of musicians.

Mr. O'Brien foresees a lot of hard work for his band. He feels that they will not be able to perform "really well" for the game. To provide relaxation for the band, the Cotton Bowl Athletic Club has been invited to the band to a dance on December thirty-first. The dance, which will last from nine p.m. to one a.m., will be held in the Women's Building of the State Fair Grounds. It will be open to students from the competing schools and to any other students of the Southwest Conference schools who are in the city for the game.

According to O'Brien, the band was invited to attend the game by Father Charles McCarthy, Vice-president of Student Affairs, on the first Friday after it was announced that Notre Dame would accept the bowl bid. O'Brien said that the idea of going to the bowl had been discussed by the band members and that they had agreed to go if the invitation was offered.

There are no activities scheduled for the conclusion of the game. The members will pack their equipment for the return trip. After the equipment is secured, the bandmen are on their own until the morning of January third when they must return to Love Field. Their plane leaves Dallas at eleven a.m. (CST) and the band should return to campus around six p.m. (EST) on Saturday.

by Cliff Wintrode

Observer Associate Editor

A candlelight march honoring the war dead and the civilians massacred at Pinkville through downtown South Bend on Friday night will highlight this week's South Bend Vietnam Moratorium activities.

"The Moratorium is being conducted to show President Nixon that students, workers, and all strats of the South Bend community are in favor of ending the Vietnam War and ceasing our racist policies now," said David James, a member of the St. Joseph County Moratorium Committee.

James felt the Moratorium took on added significance with his observation from Nixon's press conference last night that the United States is, in James' words "subsidizing in money, troops, and weapons," foreign nations like South Korea who have troops fighting in Vietnam. James claimed that he believed Nixon thought it would be easier to deal with the Black Panther leader Fred Hampton under the "Seedling Fellowship" than it would have been discussed by the band members and that they had agreed to go if the invitation was offered.

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Face big problem

(continued from page 1)

tastes, smells, and is chemically worse every year. Loss of revenue is also realized in the fishing industries both of the Great Lakes and the Mississippi Atlantic coast. "Whether they swim away of their own accord or die," the desirable fish are getting scarcer by the year. One of the chief problems affecting Chicago, New York and Detroit and their appropriate marine garbage dumps can be seen in miniature in South Bend. Like "most major cities," Dr. Echelberger explained, "South Bend only has one sewer system to handle both waste disposal and storm runoff." Under "wet weather conditions," "when the sewers are overtaxed," the by-pass relief valves, operated by pressure "allow for direct release into the St. Joe." Anyone who has seen any lack of "wet weather conditions" in South Bend is cordially invited to a splash party.

Solutions are basically of two varieties: either build dramatically larger waste disposal plants or redesign the sewer system. Either course presents problems of "technical and economic feasibility," if one stops to think. The problem of designing an adequate one can get some idea of the scope of the problem. As for the construction alternative, can you imagine the cost of the bill and the resultant chaos of digging up downtown Manhattan along the Loop?

Even advanced systems like the one the two professors are working on in a pilot project in South Bend cannot return potable water to the river. One goal of the situation was to guide the development of fertilizers of a more limited life. When I asked Dr. Echelberger if such things would be available in the near future, he halfheartedly mentioned one aspect of the contradictory nature of pollution brought about by useful chemicals: "You really hate to say no to these questions because these are the sort of things we have to come up with."

As most people know, not all our water resources are found on the surface. Dr. Winkler of the geology department explained some of the dangers of "aquifers" underground water bearing stratas.

A lot of our water comes from wells. The aquifiers are not to be ignored, like impervious, impervious stratas. Especially when the万一 trapped water is pumped out, the stresses and strain underground can lead to "leaks."

The left over "nerve gas disposed of in deep wells near Deaver could leak to the aquifiers," according to Winkler. Colorado for Christmas anyone?

Radioactive wastes have been force-pumped into wells causing earthquakes. Long Island's fresh water table has been so lowered by constant consumption that South Bend's system is in grave danger. The chief problems affecting South Bend cannot return potable water to the river. One great aid to the situation would be the reasonable water supplies.

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Chairman announces Grand Prix plans

by Glen Corso
Observer News Editor

Mike Giannone, chairman of the 1970 Grand Prix, announced tentative plans for the event in an interview yesterday. The event this year will encompass a full week of events, while the race will be held on the same weekend as a concert, and the annual proms.

While the race itself is scheduled to be held May 2, the time trials will start the Sunday before, April 26, and run throughout the week.

The contemporary music and art aspects of the event will begin with the Contemporary Jazz Quartet, was one of the many combos appearing at last year’s CJF.

Giannone also cited the first year expenses that were encountered such as the observation tower, and the snow fence, which would have to be bought again this year.

"About 90% of the halls still have their carts. There are a few isolated halls that we are having trouble with, but for the most part the halls will be willing to cooperate again," he said.

Giannone stressed that "the whole thing from now to the weekend is communication. We have to generate a good response to Grand Prix."

The race will be held in the Convocation Center Parking lot, where it was held last year. The GP system, Giannone mentioned, would be improved.

With regards to trophies, Giannone said that the traveling trophy awarded to last year’s winner to hold until the next Grand Prix. In addition smaller trophies will be given to the winning individual team members.

"I want to have a Grand Prix Queen, along the lines of the Homecoming Queen," Giannone said. The queen would be voted on by the students, and she would preside over Grand Prix events for the weekend. This, though, is not final.

Giannone said that any students interested in working on GP should contact him as soon as possible.

Jazz Festival offers big bands

The Contemporary Jazz Festival will be offering nine big bands, and an equal number of combos, for it’s weekend, March 19, 20, and 21.

Thursday night, March 19, at 8:00 in the Center for Continuing Education, to lead off a Symposium Panel of judges will discuss an aspect of jazz. The tentative membership includes Dan Morgenstern, editor of "Downbeat," Ernie Wilkins a well known composer and arranger, Dan Ellis a trombonist, J.I. Johnson, and Archie Shepp.

Friday and Saturday night will feature two jazz sessions at 1:30 and 7:30. With the exception of the Saturday night session, all 18 bands will play. The judges will choose 6 finalists who will play before the special Saturday night session. Several individual awards will be given by the judges.

This year, unlike last, there will be no award for the best over all group. According to Anne Henrichs, head of the CJF, the change was made because “Many of the band members and directors didn’t like it. They really didn’t like the competition aspect of it. They felt that it stifled their creativity.”

A questionnaire was sent out to 12 former judges and band directors asking them how they felt about the award. "11 out of 12 were in favor of eliminating it, so we did,” she said.

Miss Henrichs was only able to name three bands who would probably appear at the festival, The University of Illinois Band, with John Garvey directing; The Memphis State Band, with Tom Ferguson directing; and the North Texas State Band, with Leon Breeden directing.

The assistant chairman of the festival are Nick Talarico and John Buchanan. Tickets will be sold for the individual performances, or an all-session card to cover all events.

Happy Birthday
Harold
the Monday night staff

Pittsburgh Club Meeting
Tues. Night
7:30 2D LaFortune
Final Bus Signups
Mardi Gras
Trip to Duquesne
Basketball Game

MARDI GRAS ’70
RAFFLE PACKETS WILL BE DISTRIBUTED TODAY
AND TOMORROW

- IF YOU DON’T RECEIVE IT BY THURSDAY,
CALL 3700.

ATTN: OFF-CAMPUS STUDENTS YOUR PACKETS ARE AVAILABLE
IN THE SOCIAL COMMISSION OFFICE ON THE 4th FLOOR LAFORTUNE
AFTER 2:30 EVERY DAY
ND schedule ranked second toughest

by Mike Pavlin
Observer Sports Editor

Coaches just wouldn’t becoaches if they didn’t complain. Sometimes they’re worried about all the sophomores they’ve got to start, sometimes the alumni drive them to distraction, and other times referees seem to have left them to distraction, and other times the Irish find several teams coming.

And what did Professor Wise find? Well, when I said Johnny Dee is no different; he calls his schedule one of the toughest in the country. Sound like a favor? Happens to have come up with what he calls a two-year composite of 41-16, for a percentage of .719. In the last 38 games, ND has won 30 (.789) including a 3-1 NIT record last year. Even more impressive, the Irish have won 20 of their last 25 AWAY games (.800).

But mostly coaches complain about schedules. Maybe they’ll point to the number of major teams and wall in anguish, or they’ll find several teams coming off mediocre seasons with loads of returning lettermen, or they’ll grumble they play traditional rivals away from home, or they’ll cringe when they see that a former varsity player, now coach at some obscure college in the mountains who got on the schedule as a "favor" happens to have three transfers who were JC All-Americans.

Notre Dame head basketball coach Johnny Dee is no different; he calls his schedule one of the toughest in the country. Sound familiar? Maybe so. But Dee is right this year and he can prove it. At Wright State University in Dayton, Ohio, Gordon L. Wise, Assistant Professor of Marketing, has come up with what he calls the "Pre-Season Basketball Issue of Suicide Schedules vs. Push-Over Schedule." (Who Plays "Em?). Professor Wise presents with objective mathematical analysis and plenty of tongue-in-cheek humor his system of rating the schedules of 211 basketball teams.

He begins by ranking the teams by use of "A composite of all the schedules of 211 basketball teams in the country, based on their toughest schedule ever.

As an added attraction to this year's first annual McDermott Hall Christmas party, a Mister Saint Mary's will be selected to represent the Irish over the Dec. 5 festivities.

The social steering committee laid down the stipulation that all entrants in the competition must be male students from the University of Notre Dame. Contestants must submit entries consisting of a full-length photo and vital statistics (G.P.A., confidential financial report) to Box 591 or 677 by midnight Thursday, Dec. 11.

Sponsors for the contest will be Cindy Ringlehuber, Carol Cusick, Julie Dwyer, Dee Bacon, Sandy Griffin, and Ruthie Lyons. They will select finalists solely on the basis of the information submitted. Voting will be in the dining hall Friday at lunch, and the winner will be notified that evening.

In addition to holding the title of Mr. Saint Mary's, the Du Lac Fraternity will receive an all expense paid round trip on the shuttle bus to an escort for the evening, all the eggohe can hold, and the option to represent Saint Mary's at the Cotton Bowl, since the girls themselves cannot attend.

Earlier this week, the steering committee expressed the hope that Mr. Saint Mary's will be the embodiment of the Saint Mary's Christmas Spirit.

Good luck from Penn State

Good luck from Penn State

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