news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 1, 1970

For Immediate Release.

Arthur C. Clarke, inventor of the communications satellite and co-author of the book and film "2001: A Space Odyssey," will speak on "Life in the Year 2001" at 7:30 p.m. Monday (Nov. 9) in the University of Notre Dame's Washington Hall.

Clarke's talk will be the first of the Arthur J. Schmitt "Challenges in Science" lectures for 1970-71. A top-ranking science writer and master of science fiction, Clarke is the author of 40 books. He is the winner of the Franklin Institute's Gold Medal for originating the communications satellite in a technical paper published in 1945, has won two Aviation/Space Writers Association awards on the history and future of communications satellites, and received the UNESCO Kalinga Prize for science writing.

In addition to "2001: A Space Odyssey," which was inspired by one of his short stories "The Sentinel," Clarke has authored such science fiction classics as "A Fall of Moondust," "The Sands of Mars" and "Expedition to Earth." He has also written many non-fiction works on science for both adults and children, including "The Exploration of Space," "The Challenge of the Sea" and "Boy Beneath the Sea."

A graduate of King's College, London, with first class honors in physics and mathematics, Clarke is past chairman of the British Interplanetary Society and a member of the Academy of Astronautics and the Royal Astronomical Society. His articles have been published widely, including such periodicals as Reader's Digest, Holiday, Playboy, Look and the New York Times Magazine.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

November 1, 1970
Science News Roundup

(Further information on any of these items can be obtained by calling or writing Mrs. Jean Horiszny, 219-283-7367).

-- The question of why one brother takes drugs while the other refrains is under study by the Center for the Study of Man at the University of Notre Dame. Under the direction of Dr. George N. Shuster, assistant to the President of Notre Dame, the "Study of Drug Use" suggests that non-addicts in a New York City study area are slightly less normal than their addict peers. Shuster suggests that addicts can use drugs as a resolution to an identity crisis and as a mechanism for coping with a destructive environment.

-- Drs. V. Paul Kenney and John A. Poirier, professors of physics, delivered four major papers at the International Conference on High Engrgy Physics in Kiev. Two of the papers described research on the conversion of energy into matter and anti-matter, and the possible existence of small, sub-particles which make up the proton.

-- Democratic administration in mental hospitals seems to foster good staff morale, but clear, goal-oriented, centrally-controlled management contributes to high patient release rates, research by Dr. Claggett Smith, professor of sociology and anthropology, indicates. Smith is evaluating a variety of decision-making structures in mental hospitals, using such criteria as the quality of patient care, staff morale, rapid release of patients and the patient's eventual adjustment to community life.

-- Even pure, unburned gasolines may contribute to smog production according to Dr. William H. Hamill, professor of chemistry, and graduate student Paul Merkel. On the basis of research at the Radiation Laboratory, the two suggest that the first step might involve a "forbidden" excitation of the hydrocarbon

-more-

molecules found in ordinary gasoline vapor, facilitating the eventual production of irritating, corrosive smog components in the atmosphere

-- Dr. Ronald J. Downey, professor of microbiology, is studying the biochemical system which allows some bacteria to alternate their "breathing" patterns. Bacillus stearothermophilus can metabolize nitrates from the soil when oxygen is not available. Downey is trying to learn what genetic repressors and depressors allow the Bacillus to switch from one system to another with great efficiency and rapidity.

-- A computer capable of analyzing poems, essays and historical data as well as handling statistics is now at the disposal of faculty and students in the College of Arts and Letters. The time-sharing arrangement with Sylvania Information Systems provides English students with a tool for determining authorship of anonymous literature, as well as deciphering missing words and phrases in damaged manuscripts.

-- Dr. Thomas J. Mueller, professor of aerospace and mechanical engineering, is supervising four students tackling fluid-dynamics problems of medical interest. The students are investigating the flow patterns of blood through an artificial heart valve; the fluid-dynamics involved in taking a blood sample, and the flow patterns occurring when arteries branch off the main passage or when veins combine to form a larger vessel.

-- A synthesis of the germ theory of illness and the linkage of disease to stress is presented by two social scientists in their book "Social Stress and Chronic Illness: Mortality Patterns in Industrial Society" published by the University of Notre Dame Press. Dr. David L. Dodge, assistant professor of sociology at Notre Dame and Dr. Walter T. Martin, professor of sociology at the University of Oregon, advance a theory of death and disease resembling those once denounced as primitive -- "Disease is a result of disharmony between a sick person and his environment."

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Conklin

November 3, 1970

For Immediate Release.

The Rev. Theodore M. Hesburgh, C.S.C., president of the University of Notre Dame and chairman of the U.S. Commission on Civil Rights, will be a guest on ABC Network's Dick Cavett Show November 18.

It will be the first appearance on any of television's late-night talk shows for the 53-year-old priest who has headed Notre Dame since 1952 and is the only remaining original member of the Civil Rights Commission appointed by President Eisenhower in 1957. Actress Deborah Kerr will also be a guest on the show. The program is seen in the South Bend area on Elkhart's WSJV-TV (Channel 28), starting at 11:30 p.m. (EST).

Cavett, the newest of the challengers to NBC's Johnny Carson and CBS's Merv Griffin, was the subject of a recent Life magazine cover story which reported that his 90-minute show has increased its share of the audience from 7 per cent to 14 per cent in ten months. ABC recently renewed his contract for 12 months.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Conklin

November 3, 1970

For Immediate Release.

The Bob Hope Show scheduled for November 14 in the University of Notre Dame's Athletic and Convocation Center (ACC), seems a certainty to equal the 12, 197 concert attendance record set in April by Johnny Cash.

Only upper level arena seats remain for the Hope appearance, according to ACC General Manager John F. Plouff, and tickets are available by mail or at the ACC box office. Supporting acts for the 8:30 p.m. show include the Impact of Brass, singer Mary Ann Rose, and the Four Step Brothers.

The show will set another attendance milestone for the 21-month-old multipurpose facility -- the millionth patrons will be in the audience. The mail order tickets application of Mr. and Mrs. Robert L. Saltzgaber, 1018 S. Edison Street, South Bend, hit the million figure, and the couple received free ducats to the show and will be honored at a pre-performance presentation by Hope himself.

An avid sports fan, the ski-nosed comedian will attend the Notre Dame-Georgia Tech football game in Notre Dame Stadium the afternoon of the show as a guest of Athletic Director Edward (Moose) Krause, a longtime friend.

Hope's last visit to Notre Dame was to accept the 1962 "Patriot of the Year" award from Notre Dame's senior class. For 29 years, he has entertained members of the nation's armed services at home and abroad, including 19 Christmas tours.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Conklin

November 3, 1970

For Release after 3 P. M. (EST) Thursday, November 5.

Notre Dame, Ind. -- Even if every bit of pollution was eliminated from all motor vehicles in the United States, the nation would still have a major air pollution problem, an automobile industry spokesman told a University of Notre Dame audience today (Nov. 5).

Speaking at the University's College of Business Administration, Anthony G. De Lorenzo, General Motors vice president for public relations, defended car manufacturers' anti-pollution efforts and said the contribution of automobile emmissions to air pollution was decidedly less than that of industrial facilities or electric power plants.

The General Motors executive stressed that the industry was not relaxing its anti-pollution efforts and predicted that the corporation would have developed "essentially pollution-free products" when 1975 models are introduced in the fall of 1974.

Speaking on the role of business in solving social problems, De Loranzo said that a false picture was painted of business by many of its critics. "We, who are really active in doing something about many of these social problems, think we are the activists," he commented. "To us, it is a matter of their (critics') rhetoric versus our positive actions."

In meeting social problems, De Lorenzo said General Motors had

--Pioneered in automobile safety studies which have contributed to a travel record more than three times as safe as it was 40 years ago.

--Hired 97,000 minority employees, 15 percent of its work force and more than any other private employer.

- more -

--Fostered mass transportation studies through its indisciplinary transportation research department.

--Spent nearly $113 million this year in controlling automotive emissions alone, as well as $59 million for facilities to control industrial air and water pollution.

--Exhibited a sensitivity to social concerns by a variety of smaller programs, ranging from interest-free loans to a black non-profit housing corporation to training programs designed to teach returning servicemen civilian skills.

--Created a five-member public policy committee to inquire into all phases of General Motors' operations that relate to matters of public policy.

Businessmen in general realize that their own self-interest demands leadership in the solution of social ills, De Lorenzo said, but they cannot become unconcerned with profits. "They recognize the indisputable fact that in our economy profits make it possible for the businessman to fulfill his social responsibilities," he noted. As an example he pointed out that for every dollar of net income, General Motors' acitivity generated $1.48 in taxes, and that Michigan is losing an estimated $4 million a week in revenues during the current auto workers' strike.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 4, 1970

For Immediate Release.

Dr. Albert A. Nordin, associate professor of microbiology at the University of Notre Dame, will address a microbiology seminar at 12:30 p.m. Wednesday (Nov. 11) in Conference Room 141 of the Radiation Laboratory.

Nordin will speak on "Cellular Aspects of the Immune Response to Allografts," describing changes in the defense systems of mice when confronted with tumor transplants.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane

November 4, 1970

For Immediate Release.

Notre Dame, Ind. -- C. William Verity, president and chief executive officer of Armco Steel Corporation, Middletown, Ohio, will discuss "Changing Priorities" in a talk at 7:30 p.m. on November 12 in Notre Dame's Center for Continuing Education.

The talk is part of the Executive Lecture Series sponsored by the Graduate Division of the university's College of Business Administration. Objectives of the series are to expose the business leaders of tomorrow to the thoughts, ideas and aspirations of the business leaders of today, and to deepen understanding and cooperation between the business and academic communities.

Verity joined the Armco company in 1940, became director of organization planning and development in 1957, director of public relations in 1961, and president in 1965. He is a director of the First National Bank, Middletown; The Mead Paper Company, Dayton, Ohio; Business International, New York, N.Y., and the Boston Company, Boston, Mass.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane

November 4, 1970

For Immediate Release.

Dr. Thomas S. Fern, professor and chairman of the Notre Dame art department, has been elected vice president of the Mid-America College Art Association at the annual meeting held last week at the University of Wisconsin.

The 125-member organization represents colleges and universities from Ohio to Colorado. Dr. Fern has been a member of the Notre Dame staff since 1967.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane

November 4, 1970

For Immediate Release.

College-bound high school seniors wishing to apply for scholarships in the Army Reserve Officers Training Corps (AROTC) program were reminded of the December 31 deadline today by Colonel John J. Lavin, Notre Dame professor of military science.

AROTC scholarships provide tuition, educational fees and textbook expenses in addition to a $50 monthly allowance for the cadet. Graduates are commissioned and serve on active duty for four years after graduation.

Scholarship applications and additional information may be obtained at the Notre Dame office.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane November 4, 1970

For Immediate Release.

Frank G. Kelly, director of development at the University of Notre Dame, has been named to the Committee on Taxation and Philanthropy (COTP) of the American College Public Relations Association (ACPRA). Relating new federal tax legislation to the needs of more than 1,240 colleges and universities belonging to the organization has been the major interest of the committee.

Kelly also serves as a faculty member for the ACPRA summer academy, an annual meeting of university development officials, and for the American Academy of Fund Raising Science. He has served as a consultant to several colleges and universities, as well as numerous community and private charitable organizations.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From Jay J. Kane

November 5, 1970

For Immediate Release

Michael Todd, a 1957 University of Notre Dame graduate and the recipient of a Woodrow Wilson scholarship, will serve as visiting professor of sculpture at the University for one week beginning Monday (Nov. 9). He currently serves as professor of sculture at the University of California, La Jolle.

Todd will discuss contemporary sculpture at a public lecture at 8 p.m. Thursday, (Nov. 12) in the auditorium of the Architecture Building. His works have been exhibited at the Pace Gallery, New York, and Henri Gallery, Washington, D.C. He is a former member of the art faculty of Bennington College, Bennington, Vt.

30

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny, Jay J. Kane

From: Mrs. Horiszny

November 5, 1970

For Immediate Release.

Engineering in the future will deal with ever more complex systems, design ever smaller circuits and switches, join with biology in creating a new technology at the genetic and population levels, and rely more and more on the computer for routine problem solving, speakers at a seminar for faculty and industrial representatives at the University of Notre Dame speculated.

The day-long seminar titled "Engineering in the Future" and sponsored by the Industrial Associates Program inaugurated by Dr. Frederick D. Rossini, vice president for research and sponsored programs, included five addresses by Notre Dame faculty and a businessman on future challenges to engineering and the type of education needed to meet those challenges.

Dr. Joseph C. Hogan, dean of the College of Engineering, reviewed the "Present Status of Engineering Education" in the first address of the day. Stressing that most current curricula try to include more training in communications and the humanities, more flexibility and more opportunity for creativity, Hogan described Notre Dame's totally-new curriculum instituted last fall. The new coursework is supervised by a radically new organization of faculty talent.

"The Computer and the Future Engineer" stressed the future implications of widespread use of computers as problem-solving tools. Dr. Bruce Morgan, assistant professor of civil engineering, suggested that the computer may force a redefinition of an engineer from a "problem-solver" to a "problem-formulator," who gains the fresh insights and observations necessary

- more -

for any advance.

Dr. Robert Betchov, professor of aerospace and mechanical engineering, described how the computer can be used to understand problems in fluid dynamics. Dr. Henry C. Thacher, professor of computing science, proposed a new relationship between engineers and computer programmers. Explaining that many programs devised by engineers are inefficient uses of computer time, he suggested that those programs used frequently by the machine be periodically checked by experts.

In the afternoon, Dr. Ralph E.Thorson, professor of biology and Dr. James L. Massey, professor of electrical engineering, presented "Challenges for Future Engineers." Thorson told the faculty and business representatives that future advances in genetic engineering, artificial organs and body components, and a basic understanding of organic engineering should be on the scene by 2000 A.D. He stressed that solutions to mankind's greatest problems -- nutrition and space -- may represent engineering's greatest challenges.

Massey suggested that radically new methods of thought may be needed to cope with large, complex systems like the communications network, the economic network and the air transportation network. He also noted the trend to design smaller and smaller circuits, and seek understanding of microscopic natural phenomena necessary for laser development and materials research.

"Engineering Education to Meet the Challenge of the Future" was discussed by Dr. John J. Uhran, associate professor of electrical engineering and Dr. Kenneth B. Lauer, professor of civil engineering. Uhran pointed out that the greatest challenge facing engineering education is the phenomenon of technical obsolescence, which can make an engineer out of date within nine years after graduation. He suggested more creativity in the learning experience as a partial solution. Lauer described efforts in continuing education instituted at many institutions, and pointed out that industry, government and universities

are all vitally interested in programs which allow an engineer to catch up with the field.

Mr. Joseph E. Higgins, assistant general product manager of the Linde Division of Union Carbide Corp., concluded the seminar with some remarks on "Industry's Total Expectation for Engineers." He suggested that some business or management training might be included in an engineer's education, since about 50 per cent of engineers enter management after five years. Describing his company's experience with recent graduates in general, he noted that many new engineers seem to have trouble working with their hands, while some still have trouble with speaking, writing and general communication.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Conklin

For Immediate Release:

Notre Dame, Ind. -- The University of Notre Dame has doubled the number of minority group students in its freshman class, according to a report from the office of admissions.

Sixty-nine minority students are members of the 1970 undergraduate class of 1,737, compared with 34 in the 1969 entering class of 1,650. There are 58 black students (exactly double the 1969 freshman total), 10 Mexican-Americans and one American Indian.

"Our minority students are characterized by a very good demonstrated performance at the high school level," commented Dr. Peter P. Grande, director of admissions. "The average high school in rank in class is in the top 20 per cent, and the group has a diversity of extracurricular activities and personal backgrounds."

Helping the scholarship picture for minority applicants was $160,000 from the Cotton Bowl. The University broke a 45-year ban on postseason football appearances with the understanding net receipts would go to minority student aid. Forty-one minority group freshmen received Cotton Bowl funded awards totaling $40,600 (Awards are renewable and amount to a four-year commitment of $162,400.) A total of $101,104 in student aid funds was given to minority group freshmen.. This figure includes scholarships, loans and Educational Opportunity Grants, but not grants-in-aid given to minority group athletes. It also represents 26 per cent of all such freshman awards, 8 per cent above the average for Midwestern colleges.

Grande emphasized that "there still is much to be done" in the area of minority enrollment at Notre Dame, noting that in 1969 the University's

-more-

minority students...2

undergraduate black enrollment was under the average for comparable private institutions of higher learning . A stepped-up recruiting program is, however, raising the number of minority applications. This fall, 368 blacks applied for entrance and 181 were accepted. Sixty-eight chicanos applied and 39 were accepted.

Other University programs affecting minority students at Notre Dame include:

-- An Upward Bound Program which just finished its fifth year, the first with an integrated academic and social program for the 50 male students at Notre Dame and the 30 female students at neighboring Saint Mary's College.

-- Split-track and remedial efforts in mathematics as well as supervised tutoring by graduate students. (Minority students are not the only ones who benefit from such new curriculum options. Veterans out of school from three to five years, for example, often find them of value.)

-- Alumni Schools Committee and student recruiting efforts in the area of minority enrollment.

-- A black studies program which went into effect this fall.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From Jay J. Kane

November 5, 1970

For Immediate Release

Dr. Allan Y. Cohen, director of the John F. Kennedy Institute of Drug Abuse Education and Research, Martinez, Cal., will discuss "Drugs and Alternatives" at 8 p.m. Sunday (Nov. 15) in the Notre Dame Memorial Library auditorium. The program which is open to the public, is sponsored by the Student Union Academic Commission.

Educated at Harvard University where he received a doctorate in clinical psychology, Cohen has served as a consultant to agencies, schools and communities interested in curbing drug abuse. He is the author of a current book, "A Parent's Cuide to Adolescence and Drugs," and has appeared on numerous television programs and documentary films.

As a graduate student at Harvard Cohen studied under Timothy Leary and Richard Alpert, and experimented with psychedelic drugs. He lived for three years in Millbrook and a Mexican utopian community experimenting with LSD and related drugs. He learned of non-chemical alternatives to drugs and began a serious study of comparative spirituality, mysticism and parapsychology, eventually leading to his doctorate degree.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information

From Jay J. Kane

November 5, 1970

Mrs. Jean Horiszny
Jay J. Kane

For Immediate Release

Notre Dame, Ind.--The Rev. Ernan McMullin, chairman of Notre Dame's department of philosophy, has returned from Rome where he participated in the recent meeting of the Vatican Secretariat for Non-Believers. One of 40 consultors representing countries throughout the world, Father McMullin served as chairman of the final session.

Delegates to the meeting discussed progress of the first five years of the Secretariat and future goals dictated by these findings. The Secretariat was organized toassess the growing problems posed for religious believers by atheism and secularization and to formulate dialogue with representatives of formally agnostic or atheistic ideologies, notably Marxism and scientific humanism.

Consultors, generally representing Western and Eastern Europe and North and South America, reported on situations in their own countries. Particular attention was given to the Marxist-Christian discussions now going on in South America and Eastern Europe, and to the recent research findings of sociologists and theologians on the sources of religious unbelief in contemporary Western society. Delegates proposed that a new title be assigned to the group that would distinguish its activities.

Cardinal Koenig of Vienna, prefect of the Secretariat, presided at the meetings. The Rev. Herve Carrier, S.J., new Canadian rector of the Gregorian University in Rome, presented a reorganizational plan at the final session which will be discussed by the bishop-members of the Secretariat next spring. Other U.S. delegates to the meeting included the Rev. Daniel O'Hanlon, S.J., Alma College (California) and the Rev. Richard Butler, O.P., University of Arizona

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

Advance for AM release Thursday, Nov. 5, 1970

CHICAGO, ILL. -- The world's most widespread disease is always fatal, has no known cure, and eventually strikes everyone. However, a University of Notre Dame scientist said here today (Nov. 5), research on organisms isolated from any environmental contaminants for two years indicates that many signs of this disease -- old age -- may be caused by chemical, physical, and biological agents in the environment.

Researchers at the University's Lobund Laboratory are seeking to determine what tissue deterioration is caused by environmental stresses over many years, and what damage is the result of intrinsic failures in the organism as it ages.

Describing the Laboratory's findings on aging under germfree conditions at the 21st annual session of the American Association for Laboratory Animal Science at the Conrad Hilton Hotel, Dr. Morris Pollard, Director of Lobund, said that many lesions and tumors linked with aging are actually produced by accumulated insults to the body by environmental factors, including microbial agents, toxic chemicals and physical injuries. Examples of such agents in the environment might include bacteria, viruses, air pollutants, pesticides, smoking, drinking, radiation and excessive sunlight.

"Such hallmarks of aging as pneumonia, nephritis, malignant tumors and lesions of the skeletal muscles, heart and arteries usually appear in conventional laboratory rats at about two years," Pollard said. "But of 61 two-year-old germfree rats examined so far, none showed these degenerative changes. Fourteen of the rats did exhibit benign tumors, all associated with one of the endocrine systems."

- more -

old age . . . 2

" We do not know what germfree rats will ultimately die of," Pollard continued, "since they have not been observed for long enough periods under sterile living conditions. But it appears that many changes now associated with aging are actually due to the organism's life-long exposure to the outside world and its hardships."

Pollard said his study on the effects of aging is decisive in that the rats were isolated from any environmental contaminants for two years. Without this rigorous sterility, he explained, the true effects of old age would be impossible to observe, as the animals would die of environmentally-induced deterioration before actual old age could set in.

Pollard is also studying the biochemical changes occurring in the rats, hoping to document inexorable, intrinsic failures built into the living system. He and his associates are also demonstrating the link between particular chemical and biological agents and the degenerative effect each produces. They have already identified several agents which produce malignant tumors and leukemia in rats, and plan to continue this study, particularly looking for degenerative effects caused by pollutants.

"Lobund is presently the only laboratory with the capacity to study aging under germfree conditions," Pollard noted, "as other labs have not been able to maintain large numbers of animals under sterile living conditions for the long periods required."

The only other such study was performed by Pollard himself in 1962, but his findings at that time were unclear. He detected a high incidence of nephritis in the aging rats, although no contaminating virus was detected. After scientists at Lobund developed a new diet from natural products ; nephritis has ceased to occur in germfree rats.

Lobund's research on the effects of aging is supported by the U.S. Public Health Service and the John A. Hartford Foundation.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From Jay J. Kane

November 5, 1970

For Immediate Release

Kevin Phillips, special assistant to Atty. Gen. John Mitchell and author of the book, "The Emerging Republican Majority," will speak at 8 p.m. Thursday (Nov. 12) in the Notre Dame Memorial Library auditorium. The talk is sponsored by the Student Union Academic Commission.

Phillips, who served as analyst for voting patterns and trends in the 1968 Nixon campaign, predicted in the book that "the upcoming cycle of American politics is likely to match a dominant Republican Party based in the Heartland, South and California against a minority Democratic Party based in the Northeast and Pacific Northwest (and encompassing Southern as well as Northern Negroes)."

A native of New York, Phillips was educated at the University of Edinburgh and Harvard Law School where he was awarded the Bureau of National Affairs prize.

30

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From Jay J. Kane

November 5, 1970

For Immediate Release

Tom Raworth, author of four volumes of poems and a novel, "A Serial Biography," will speak at 8 p.m. Friday (Nov. 6) in the auditorium of the Notre Dame Memorial Library.

Born in 1934 of Anglo-Irish parentage, "a teddy boy in the days of bicycle chains and razors," he has worked as an insurance clerk, laborer, assistant transport manager, and editor of the magazine, "Outburst."

The talk is open to the public.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 6, 1970

For Immediate Release:

Certain types of white blood cells, known as phagocytes, can search out and destroy bacteria and other foreign matter. Like watchdogs in the home, they normally know the difference between members of the family and strange intruders.

At the University of Notre Dame's Lobund Laboratory, Dr. Ronald J. Downey, associate professor of microbiology, is studying how the phagocytes interact with the bacterial cell surface. Under a grant from the National Institutes of Health, his study is titled "Recognition of Staphylococcus aureus by Phagocytic Leukocytes."

He hopes that information on how the phagocytes make the delicate distinction between "self" and "non-self" may help medical science learn how other cells in the body interact or communicate. Such knowledge may also help doctors deceive the phagocytes for therapeutic purposes -- such as organ transplants and implanting artificial bones and joints.

In addition, the study may suggest ways in which the body's defenses can be fortified to deal with particular infections. Presently, Downey suggests there may be at least two steps in dealing with foreign matter. First, the phagocytic activity of leukocytes, which is normally repressed by a "self" component in the serum, is turned on by a chemical alteration in this substance when it meets a foreign surface. Secondly, the altered "self" component may trigger the white cells to engulf the foreign material.

When triggered, the phagocyte will ingest appreciable quantities of "non-self" matter in just a few minutes. After about 30 minutes it self-destructs, and the debris is ingested by other phagocytes and eventually excreted from the body.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny November 6, 1970

For Immediate Release:

The laser as a tool for measuring wind velocity will be discussed by Dr. James Whitelaw, professor of mechanical engineering at the Imperial College of Science and Technology in London, at 3:30 p.m. Friday (Nov. 13) in Room 303 of the University of Notre Dame's Engineering Hall.

Whitelaw will speak on "Optimisation of Laser Optics for Anemometry" at a colloquium sponsored by the department of aerospace and mechanical engineering. The public is invited to attend.'

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 9, 1970

For Immediate Release:

The University of Notre Dame has accepted $470,899 in awards for the month of October to support research and educational programs, according to Dr. Frederick D. Rossini, vice president of research and sponsored programs.

Dr. Howard J. Saz , professor of biology, received $72,094 from the National Institutes of Health (NIH) to continue his study on "Intermediary Metabolism of Helminths." Saz is looking for biochemical reactions in the parasitic worms which are more important to the parasite than its host. Such reactions can then be inhibited to destroy the worm with minimal effects on the human or animal housing it.

The turbulence which bounces planes, retards the motion of ships and influences weather patterns is under study by Dr. Robert Betchov, professor of aerospace and mechanical engineering. Under a grant of $30,600 from the National Science Foundation (NSF), Betchov is pursuing basic research on the little-understood phenomenon in a study titled "Experiments on Strong Turbulence."

Awards for research totaled $376,602, including the above two projects and:

-- $83,344 from the Frank J. Lewis Foundation for the "Christian School Project" directed by Bro. Anthony J. Ipsaro, S.M., assistant professor of education.

-- $59,600 from NSF for "High Energy Physics Research" directed by Dr. V. Paul Kenney, professor of physics.

-more-

-- $45,000 from the U.S. Air Force for "Fundamental Studies on Reactive Oligomers" by Dr. Frank G. D'Alelio, professor of chemistry.

-- $41,400 from NSF for a study of "Response of Concrete to Climactic Conditions" by Dr. Kenneth B. Lauer, professor of civil engineering.

-- $29,680 from the U.S. Army for a "Study of Material Behavior After Shock Loading" by Dr. Nicholas F. Fiore, associate professor of metallurgical engineering and materials science.

-- $7,134 from NIH for a postdoctoral research fellowship in the department of biology; $3,975 from NSF for a research fellowship in the department of biology; $1,000 from NIH for a postdoctoral research fellowship in the department of microbiology, and $1,000 from NIH for a postdoctoral research fellowship in the department of biology.

-- $1,775 from the Diocese of Birmingham, Ala. for a "Study of Directors of Religious Education" by the Rev. William B. Friend, associate professional specialist in education.

Awards for educational programs totaled $94,297 and included:

-- $43,230 from NSF for a Summer Institute for College Teachers in Physics administered by the department of physics.

-- $40,367 from the U.S. Office of Education for a work-study program administered through the Office of Financial Aid.

-- $9,200 from NSF for the "Twelfth Midwestern Mechanics Conference" sponsored by the College of Engineering.

-- $1,500 from the General Electric Foundation as a grant-in-aid to the department of mathematics.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 9, 1970

For Immediate Release:

Two spinoffs from the space race will revolutionize life in the year 2001 A.D., noted science-fiction writer Arthur C. Clarke told an audience in Washington Hall at the University of Notre Dame tonight. Clarke, who first wrote about the communication satellites in 1945, said that instant communications and autonomous, self-contained villages and homes will characterize the future in his talk titled "Life in the Year 2001".

Author of the film "2001 A.D.," Clarke spoke as the first Arthur J. Schmitt Science Lecturer for 1970-71. He sketched a world of instant communications -- a world without time-zones, without cities, without agriculture , without newspapers -- a world where any job can be performed from any home and whose two greatest industries are education and entertainment

"The year 2001 could mark the divide between barbarism and civilization," Clarke said, "and we may yet live to see the end of the dark ages." He suggested that the new millenium will require a new race of men characterized by flexibility of mind, active curiousity, and an ability or organize new knowledge.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Conklin

November 9, 1970

For Immediate Release:

The University of Notre Dame band will salute comedian Bob Hope at halftime of the Georgia Tech football game Saturday (Nov. 14).

Hope, who will be attending the game as the guest of Edward Krause, Notre Dame's athletic director, will be performing in the Athletic and Convocation Center at 8:30 p.m. Saturday.

"It's d'Lovely," "Two Sleepy People," "Smoke Gets in Your Eyes," and "Buttons and Bows" are some of the selections from Hope's show business past which the band will play with appropriate formations. "Thanks for the Memory," the comedian's theme song, will end the tribute, which is designed by Robert O'Brien and Michael Hennessey, director and assistant director of the band.

Hope was last on campus in 1962 when he received the senior class "Patriotism of the Year" award.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 9, 1970

For Immediate Release:

The University of Notre Dame has accepted $470,899 in awards for the month of October to support research and educational programs, according to Dr. Frederick D. Rossini, vice president of research and sponsored programs.

Dr. Howard J. Saz , professor of biology, received $72,094 from the National Institutes of Health (NIH) to continue his study on "Intermediary Metabolism of Helminths." Saz is looking for biochemical reactions in the parasitic worms which are more important to the parasite than its host. Such reactions can then be inhibited to destroy the worm with minimal effects on the human or animal housing it.

The turbulence which bounces planes, retards the motion of ships and influences weather patterns is under study by Dr. Robert Betchov, professor of aerospace and mechanical engineering. Under a grant of $30,600 from the National Science Foundation (NSF), Betchov is pursuing basic research on the little-understood phenomenon in a study titled "Experiments on Strong Turbulence."

Awards for research totaled $376,602, including the above two projects and:

-- $83,344 from the Frank J. Lewis Foundation for the "Christian School Project" directed by Bro. Anthony J. Ipsaro, S.M., assistant professor of education.

-- $59,600 from NSF for "High Energy Physics Research" directed by Dr. V. Paul Kenney, professor of physics.

-more-

-- $45,000 from the U.S. Air Force for "Fundamental Studies on Reactive Oligomers" by Dr. Frank G. D'Alelio, professor of chemistry.

-- $41,400 from NSF for a study of "Response of Concrete to Climactic Conditions" by Dr. Kenneth B. Lauer, professor of civil engineering.

-- $29,680 from the U.S. Army for a "Study of Material Behavior After Shock Loading" by Dr. Nicholas F. Fiore, associate professor of metallurgical engineering and materials science.

-- $7,134 from NIH for a postdoctoral research fellowship in the department of biology; $3,975 from NSF for a research fellowship in the department of biology; $1,000 from NIH for a postdoctoral research fellowship in the department of microbiology, and $1,000 from NIH for a postdoctoral research fellowship in the department of biology.

-- $1,775 from the Diocese of Birmingham, Ala. for a "Study of Directors of Religious Education" by the Rev. William B. Friend, associate professional specialist in education.

Awards for educational programs totaled $94,297 and included:

-- $43,230 from NSF for a Summer Institute for College Teachers in Physics administered by the department of physics.

-- $40,367 from the U.S. Office of Education for a work-study program administered through the Office of Financial Aid.

-- $9,200 from NSF for the "Twelfth Midwestern Mechanics Conference" sponsored by the College of Engineering.

-- $1,500 from the General Electric Foundation as a grant-in-aid to the department of mathematics.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 10, 1970

For Immediate Release:

Dr. W.R. Sears, professor of aerospace engineering at Cornell University, will address an aerospace and mechanical engineering colloquium on "Unsteady Boundary-Layer Separation" at 3:30 p.m. November 19 in Room 303 of the University of Notre Dame's Engineering Hall. The public is invited to attend.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 10, 1970

For Immediate Release:

Dr. Jerome L. Novotny, professor of aerospace and mechanical engineering at the University of Notre Dame, will speak at the Massachusetts Institute of Technology (MIT) department of chemical engineering November 19.

Novotny, a specialist in heat transfer and thermodynamics, will speak on "Experimental Investigation of Radiation-Conduction Interaction in Horizontal Gas Layers." A graduate of the University of Minnesota, Novotny served on the faculty of the University of Delaware before joining the Notre Dame faculty in 1965.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 10, 1970

For Immediate Release:

Dr. T.C.T. Ting, professor of applied mechanics at the University of Illinois at Chicago Circle will speak on "Elastic-Plastic Waves of Combined Stress" at 3:30 p.m. Wednesday (Nov. 18) in Room 303 of the University of Notre Dame's Engineering Hall.

In his talk to the aerospace and mechanical engineering colloquium, he will discuss surprising results of combined stresses in thin plastic tubes. The public is invited to attend.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane

Nov. 10, 1970

For Immediate Release:

Notre Dame, Ind. -- The appointment of a nine-man Hall Life Board at the University of Notre Dame was announced today by the Rev. Thomas E. Blantz, C.S.C., vice president for student affairs.

The board, authorized by the board of trustees at an earlier meeting this year, is responsible for approving hall constitutions, assisting individual halls in implementing these constitutions, ascertaining that each hall has a functioning hall government and hall judicial board, and, in general, assisting the Student Life Council "in providing for the good order, spirit, and morale of the residence halls."

Faculty members of the board include Paul F. Conway, associate professor of business administration and chairman of the student affairs committee of the faculty senate; Peter W. Thornton, professor of law, and John J. Uhran, associate professor of engineering, both members of the student affairs committee of the faculty senate.

Student members are Eric Andrus, hall life commissioner of student government; Carl Ellison, minority recruitment for student government, and Robert Galgan, member of hall presidents' council. Administration members include the Rev. Maurice Amen, C.S.C., director of the non-violence program and rector of Flanner Hall; the Rev. Thomas E. Chambers, C.S.C., director of student residence and rector of Morrissey Hall, and the Rev. Ralph F. Dunn,C.S.C. director of psychological services.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane Nov. 10, 1970

For Immediate Release:

Notre Dame, Ind. -- The 1970 Alcoa Student Design Merit Award has been won by a Notre Dame student, Robert W. Stowers, Milwaukee, Wis. (7115 N. Barnett Lane).

Stowers, a candidate for the MFA degree in the department of art, designed an all-aluminum electric heating system for quick installation in low-cost housing, Only a screwdriver is needed to install the radiant heating system.

A sketch of the award-winning design and information on its operation was printed in a recent issue of Appliance Engineer.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Conklin

November 10, 1970

For Immediate Release:

About 600 disadvantaged South Bend area children will see their first college football game Saturday (Nov. 14) when No. 1 ranked Notre Dame faces Georgia Tech in Notre Dame Stadium.

The children -- most of them tutorees of Notre Dame and Saint Mary's College students involved in the local Neighborhood Study Help Program -- will be in student seats while their usual occupants will be watching the game on television in campus residence halls.

The idea of students turning over their seats for one game was broached in a September Notre Dame Student Government meeting and received subsequent approval from University officials as well as from Coach Ara Parseghian and team captains.

A 10 a.m. tour of the campus will precede the game, and student monitors will have enough change in their pockets to provide hot dogs and soft drinks for those without money. Chairmen for the event are Notre Dame juniors Eric Andrus, Sacramento, Calif. (6651 Fordham), and Jack Candon, Rutland, Vt. (5 Royce St.) and a Saint Mary's junior, Diane Shahade, Johnstown, Pa. (828 Drexel Ave.).

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 10, 1970

For Immediate Release"

Violinist Won-mo Kim will present a solo concert at 8:15 p.m. Monday (Nov. 16) in the University of Notre Dame's Memorial Library Auditorium. A member of the Illinois State University School of Music and concertmaster of the Eastman Philharmonic Orchestra, Kim has performed at the Berkshire Festival and at Carnegie Hall.

Kim's appearance is sponsored by the department of music. He will perform the Sonata for Violin and Piano by Mozart, the Sonata for Violin and Piano by Cesar Branck, the Chaconne for Unaccompanied Violin by J.S. Bach and the Introduction and Rondo Capriccioso by Saint-Saens.

The public is invited to attend.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 16, 1970

For Immediate Release:

The transmission of cancer-causing viruses in primates will be discussed in a microbiology seminar at 12:30 p.m. Wednesday (Nov. 18) in Room 141 of the University of Notre Dame's Radiation Laboratory.

Dr. Friedrich Deinhardt, director and professor of microbiology at the Presbyterian-St. Luke's Hospital in Chicago, will speak on "RNA Tumor Viruses." He has developed a technique for innoculating marmosets with tumor-causing viruses, which permits the study of cancer in an animal more similar to man than mice or dogs.

The public is invited to attend.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 16, 1970

For Immediate Release:

The possibility of applying engineering ideas to social and economic problems will be discussed in an electrical engineering colloquium at 3:30 p.m. Friday (Nov. 20) in Room 303 of the University of Notre Dame's Engineering Hall.

Dr. Ruey-wen Liu, professor of electrical engineering at Notre Dame, will speak on "Mathematics Structures of Engineering Problems." His talk will describe a new area of applied mathematics useful in understanding engineering ideas, especially in information theory, decision theory and optimization methods.

Liu points out that an understanding of engineering ideas can to be applied to a social problem if they have the same mathematics structures. An expert in nonlinear systems, Liu joined the Notre Dame faculty in 1960.

The public is invited to attend.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny November 16, 1970

For Immediate Release:

The higher green algae, from which all plants on earth seem to have evolved, will be discussed in a biology seminar at the University of Notre Dame at 4:30 p.m. Friday (Nov. 20) in room 109 of the Biology Building.

Dr. Gordon McBride, professor of biology at the University of Michigan, will speak on "Evolutionary Trends in the Higher Green Algae." Other forms of algae appear to be evolutionary dead ends, while the higher green algae apparently gave rise to fungi and mosses, and eventually all higher forms of plants. The public is invited to attend.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 16, 1970

For Immediate Release:

Dr. Bruce J. Morgan, assistant professor of civil engineering at the University of Notre Dame, will present an invited paper at the Symposium on Ocean Engineering sponsored by the Pennsylvania Science and Engineering Foundation Thursday and Friday (Nov. 19 and 20) at the University of Pennsylvania.

Morgan's paper is titled "The Finite Element Method and Cable Dynamics." The paper describes Morgan's research sponsored by Project THEMIS, an effort to develop technology for the deep ocean funded by the U.S. Office of Naval Research.

A specialist in structural mechanics and in the application of computer solutions to structural problems, Morgan has been on the Notre Dame faculty for three years.

-30-

NEWS

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane

November 17, 1970

For Immediate Release

Notre Dame, Indiana -- Henry F. Frailey, vice president and general manager of the television products division of Corning Glass Works, Corning, N.Y., will speak to students in the graduate division of the Notre Dame College of Business Administration at 9 a.m. Friday (Nov. 20).

Frailey, a 1945 graduate of the University, will discuss "Competition with Japanese Imports in the Television Components Market." The talk will be in Room 220 of Hayes-Healy Hall.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 18,1970

For Immediate Release:

Dr. James Massey, professor of electrical engineering at the University of Notre Dame has been elected a Fellow of the Institute of Electrical and Electronics Engineers (IEEE). The award will be presented formally at a dinner in New York City in March of 1971.

The title of fellow is conferred upon electrical engineers of "unusual professional distinction who have made outstanding and extraordinary contributions in the field." Massey's award included the citation "for contributions to coding theory, particularly to threshold decoding and its application, and to engineering education."

Massey recently developed a code for use in deep space, which minimizes the effects of "noise" common in transmitting across great distances. In addition, the code requires a minimum of computer hardward, and allows engineers to scan information from the complex code before it enters the lengthy decoding process. The code was developed with the support of the National Aeronautics and Space Administration (NASA).

Massey joined the Notre Dame faculty in 1962, and has served as chairman of the Student Life Council and acting chairman of the department of electrical engineering. In 1964, he won the IEEE Group on Information Theory's Best Paper Award, and has served as east coast vice chairman of the Group on Information Theory.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 18, 1970

For Immediate Release:

Drs. Albin A. Szewczyk and Victor W. Nee, professor and associate professor of aerospace and mechanical engineering, will present papers at the 1970 Divisional Meeting of the Division of Fluid Dynamics of the American Physical Society Monday and Tuesday (Nov. 23 and 24) in Charlottsville, Va.

Szewczyk will deliver a paper titled "A Two-Phase Boundary Layer with Various Gas Injection Distributions Along the Wall" co-authored by Nee and graduate student W.G. Meyers. Nee will deliver a paper titled "A Physical Model for the Turbulent Diffusion in a Surface Layer" co-authored by Dr. K.T. Yang, professor of aerospace and mechanical engineering, and graduate student S. Rao.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane

November 18, 1970

For Immediate Release:

Notre Dame, Ind. -- Two recognized authorities on the American Constitution at the University of Notre Dame, Dean William B. Lawless and Dr. Paul C. Bartholomew, have accepted invitations from the U.S. State Department to assist the Philippines government in the preparation of a new constitution.

Lawless, dean of the Notre Dame Law School, and Bartholomew, professor of government at the university since 1931, are among five Americans who will join a similar number of Filipino authorities for a series of discussions on the advantages and disadvantages of their respective constitutions in Manilla Dec. 7-11. The participants will attend a pre-conference meeting Dec. 4-6.

The State Department, in co-operation with the Philippine-American Education Foundation, is sponsoring the seventh annual American Studies Seminar, supported by a Fulbright-Hays grant.

Bartholomew, a consultant to the Department of the Navy, U.S. House of Representatives, State of Indiana and City of Chicago, is the author of numerous books and articles, including "Checks and Balances" and "Constitution" in the 1968 edition of Encyclopedia Americana. His annual analysis of the work of the Supreme Court appears in the Western Political Quarterly.

Lawless, a justice of the New York Supreme Court before assuming his present post at Notre Dame on July 1, 1968, served as secretary of the judiciary committee for the 1967 New York State Constitutional Convention. He is co-author of a two-volume work, "New York Pattern Jury Charges," and has contributed a number of articles to professional publications.

-more-

philippines constitution...2

Bartholomew will travel to Manilla by air on Dec. 1. Lawless will travel from Tokyo where he will be engaged in conversations Dec. 2-3 with Officials of the University of Tokyo and Sophia University as part of a preliminary exploration of the possible establishment of a Japanese Program for second year Notre Dame law students, similar to one presently conducted at the University of London. This program, if approved, would begin in September, 1972.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane November 19, 1970

For Immediate Release.

Notre DAme, Ind. -- A Notre Dame faculty member and two graduate students in the department of art have won prizes in the annual Southern Shores Exhibition at Gary, Ind.

Dr. Thomas S. Fern, associate professor and chairman of the department of art, received an award for a three dimensional painting. The graduate students, David Ripley, South Bend, Ind. (701 W. Colfax) and Mychajlo Urban, Chicago, Ill. won prizes for their "object" sculpture and metal sculpture, respectively.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane

November 19, 1970

For Immediate Release

The appointment of John B. Naughton, vice president and general manager of the Ford Marketing Corporation, Dearborn, Mich., as a member of the advisory council of the Notre Dame College of Business Administration has been announced by the Rev. Theodore M. Hesburgh, C.S.C., university president.

Naughton, a native of Pueblo, Colo., received undergraduate degrees at Southern Colorado State College and Xavier University. He was the recipient of an honorary doctor of letters degree at the Colorado institution in 1967.

A resident of Bloomfield Hills, Mich., he is married and the father of seven children. He is a trustee of Siena Heights College and chairman of the Guest House board.

Notre Dame advisory councils meet periodically with university deans to discuss plans and programs.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane

November 19, 1970

For Immediate Release.

Notre Dame, Ind. -- The increasing importance of advanced education for officer personnel in American armed forces is evident in graduate enrollment figures released today by University of Notre Dame Reserve Officer Training Corps (ROTC) units.

Eighty per cent of the officers assigned to the Army, Air Force or Navy ROTC units on the campus are pursuing graduate degrees in their off-duty hours, according to Col. M.M. Staples, commanding officer and professor of naval science. All told, 37 officers from the four branches of military service, either assigned to one of the three Notre Dame units or on a leave of absence from their respective services, are advancing their academic qualifications.

It is expected that all officers assigned to the campus units will be engaged in some phase of graduate work in the spring semester of 1971, Col Staples said. Graduate degrees sought range from an MA in sociology to a Ph.D. in aeronautical engineering.

Thirty per cent of the degrees sought are in the areas of international relations and foreign affairs. A similar number are involved in the combined business administration-engineering program, while the remainder cover a wide range of subject matter, including history, law and education.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Conklin

Novemb er 19, 1970

For Immediate Release.

The Rev. Theodore M. Hesburgh, C.S.C., president of the University of Notre Dame, has been named to the 16-member editorial advisory board of a new monthly newspaper called World Peace News.

The newspaper, which started publication this month from offices in the United Nations Plaza in New York City, is intended as an international forum for supporters of world law and peace movements.

The first issue dealt with interviews with presidents of 10 universities -- including N Atre Dame, Yale, Harvard, and New York University in the United States -- on peace issues. The newspaper's publisher is Thomas Liggett.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny November 23, 1970

For Immediate Release:

If phosphate-laden detergents are banned from the supermarket, what cleaning agents will replace them? What possible threats to the environment might these new chemicals pose?

Dr. Philip Singer, assistant professor of civil engineering at the University of Notre Dame, believes the time to study these questions is now, before new detergents arrive on the market and begin accumulating in the water. In particular, he is investigating boron-containing detergents, which many believe may become widely-used substitutes for phosphate cleansers. Boron is a rare element found in the eyewash boric acid and the water-softening agent borax.

Singer fears that widespread use of boron in detergents may lead to an accumulation of the chemical in rivers, lakes and streams, perhaps leading to some unforeseen ecological danger. He plans to study boron concentrations in natural waters, and investigate chemical means of removing the compounds from domestic and agricultural waste waters.

In the first part of his study Singer will examine local waterways for boron concentration, comparing high-boron levels in the water with soil characteristics in the surrounding area. Some soils hold boron, releasing it slowly as water drains through. Singer will also make use of studies in the San Joaquin Valley where boron leached from soils by irrigation water often reaches high concentrations. Citrus crops in these areas have reportedly been damaged as a result of this boron-rich water, Singer said,

-more-

which suggests that boron may present some hazards to plant life in lakes and ponds.

In the laboratory, Singer will investigate chemical methods of removing boron from waste waters. One possible method is co-precipitation, in which a solid is formed which absorbs boron, carrying it to the bottom of the treatment unit. Another method uses the natural ability of some soils to hold boron -- the water is simply filtered through such a soil, which removes most of the dissolved boron. Singer plans to compare the effectiveness of these two methods and develop precise criteria for removing the boron most effectively.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane

November 24, 1970

For Immediate Release.

Notre Dame, Ind. -- The proceedings of the meeting of Monastic Superiors of the Far East in Bangkok in December, 1968, where the death of Thomas Merton occurred, are included in a new book edited by John Moffitt and published by the University of Notre Dame Press.

Financially assisted by a Rockefeller Foundation grant, "A New Charter for Monasticism" is issued under the auspices of Notre Dame's Institute for Advanced Religious Studies. In the introductory words of Dr. George N. Shuster, assistant to the president at Notre Dame, the book describes "the first genuinely creative confrontation between Catholic and Oriental monasticism."

Moffitt was a member of a Hindu monastic order for 25 years before his conversion to Catholicism. He is poetry editor and copy editor of America, a national Catholic weekly magazine.

The author, through the inclusion of papers by such participants as Jean Leclercq, O.S.B., Jacques Amyot, S.J., Francis Acharya, O.C.S.O., Sadhu Ittyavirah and others, concludes that a new approach is now required of Catholic missionaries who are constantly challenged to reevaluate their relationship with those outside the small part of the world that is actively Christain.

The last message of Merton, world famous Trappist monk and author, is printed in the book. "What we are now asked to do is not so much to speak of Christ as to let him live within us, so that people may feel him by the way he is living in us."

- 30 -

UNIVERSITY OF NOTRE DAME
OFFICE OF RESEARCH AND SPONSORED PROGRAMS

INFORMATION CIRCULAR

No. FY 71-8

Date: November, 1970

NATIONAL ENDOWMENT FOR THE HUMANITIES REVISED APPLICATION INSTRUCTIONS FOR RESEARCH GRANTS.

The National Endowment for The Humanities, Division of Research and Publication, has announced new application instructions for research grants. The new regulations are more liberal in a number of ways.

The ceiling on Small Grants has been raised from $10,000 to $15,000. The Endowment can now accept applications for support for two years at a time rather than one year as previously, and applications for support up to twenty-seven months to permit research projects to carry over three summers are acceptable. It is now possible to match up to two-thirds of sabbatic or academic leave pay offered by an applicant's institution with a view to providing successful applicants a full year off duty at something like their regular levels of pay rather than holding them to one semester as before. These liberalized regulations were installed in the hope of attracting better applications.

At the same time the Endowment has reaffirmed its policy against payment for faculty released time. Although the new instructions do not cover this point, this regulation will be waived under special circumstances. Such waivers however will be rare and should not be applied for without prior consultation. The new regulations attempt also to underline the importance of providing full and specific detail of travel plans in budget requests. It will save everybody a great deal of time if applicants outline their travel plans thoroughly and cost them accurately.

It is pointed out by the Endowment that their reviewers and panelists have consistently been critical of methodological weaknesses in many applications. Too many contain bright ideas but insufficient practical detail to convince reviewers that applicants have thoroughly thought through their proposals. The Endowment recoils from the prospect of further lengthening and complicating its Application Instructions by spelling out specific requirements on this score. Humanists' chances of funding will be greatly enhanced if they spell out methodology with the thoroughness that, say, NSF requires.

Copies of the revised Application Instructions may be obtained from the Office of Research and Sponsored Programs.

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 24, 1970

For Immediate Release.

A computer-generated film will highlight a series of three Peter C. Reilly Lectures in Chemistry at 4:30 p.m. Monday, Wednesday and Friday (Nov. 30, Dec. 2 and 4) in Room 123 of the University of Notre Dame's Nieuwland Science Hall.

Dr. John C. Polanyi, professor of chemistry at the University of Toronto, will speak on "The Dynamics of Some Simple Reactions," describing his experimental and theoretical work in discovering the detailed mechanisms of some chemical interactions. His talks will be titled "Infrared Chemiluminescence" (Monday), "Reaction Dynamics" (Wednesday) and "A Computer-Generated Film" (Friday)

The movie summarizing Polanyi's findings is 40 minutes long, and produced in 3D and color. The computer produces the "pictures" from theory and facts provided by the scientists, and helps researchers gain a better appreciation for their highly-mathematical theories.

A Fellow of the Royal Society of Canada, Polanyi has received the Noranda Award of the Chemical Institute of Canada and the Mack Award of Ohio State University. He has served on the faculty of the University of Toronto since 1956.

The Reilly Lectures in Chemistry are sponsored by the College of Science and the department of chemistry, and endowed by the late Indianapolis industrialist Peter C. Reilly.

- 30 -

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Jay J. Kane Nov. 24, 1970

For Immediate Release

The Theology of Death lecture, originally scheduled for 8 p.m. Tuesday, December 1, has been rescheduled to 7:30 p.m. on the same date to permit interested persons an opportunity to view the "First Tuesday" program on NBC-TV. The University of Notre Dame will be featured in one segment of the program beginning at 9 p.m.

Dr. Harold Weiss, chairman of religious studies department at Saint Mary's College, will discuss "Immortality and Resurrection" at the earlier time period in the Notre Dame architecture auditorium.

Remaining programs in the Theology of Death series will feature the Rev. John S. Dunne, C.S.C., "Lifetime and Deathtime," 8 p.m. , Thursday, December 3, library auditorium; "Hinduism and Reincarnation," December 8, architecture auditorium; and "Death in Pastoral Practice," December 10, with Dr. Daniel Fowler, pastor of First Presbyterian Church, and the Rev. Joseph Paine, C.S.C., pastor of Little Flower Church, both of South Bend.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny

November 24, 1970

For Immediate Release:

Dr. Wyatt T. Walker, a past-president of the NAACP, will speak on "'So-Called' Black Antisemitism -- The Current Situation in the Middle East" at 8 p.m. Wednesday (Dec. 2) in the University of Notre Dame's Memorial Library Auditorium.

Dr. Walker's talk is sponsored by the ND-SMC Academic Commission.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny Nov 25, 1970

For Immediate Release:

Dr. David Rowe, noted China expert and professor of political science at Yale University, will speak at 8 p.m. Tuesday (Dec.1) in the University of Notre Dame's Memorial Library Auditorium.

The author of "China: An Area Manual" and "China Among the Powers," Rowe has traveled extensively in China and Taiwan. His talk is sponsored by the ND-SMC Academic Commision and the Committee on International Relations.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs. Horiszny Nov. 25, 1970

For Immediate Release:

Dr. S.E. Isakoff, director of the engineering physics laboratory at E.I. Du Pont de Nemours Co. in Willmington, Del. will speak on "Chemical Engineers in Industry -- Challenges, Diversity and Expectations" at 1:30 p.m. Thursday (Dec. 3) in the Radiation Laboratory Auditorium.

Dr. Isakoff's talk is sponsored by the department of chemical engineering.

-30-

news

University of Notre Dame

Notre Dame, Indiana
46556

Area Code 219
Phone 283-7367

DEPARTMENT of INFORMATION SERVICES
Richard W. Conklin, Director
Assistant Directors of Public Information: Mrs. Jean Horiszny
Jay J. Kane

From: Mrs Horiszny Nov. 25, 1970

For Immediate Release:

Faculty and students of the Vector Biology Laboratory at the University of Notre Dame will present 10 papers at the annual meeting of the Entomological Society of America beginning Monday in Miami Beach.

Dr. George B. Craig, director of the laboratory, explained that the papers will describe biological controls for mosquitoes to replace pesticides which are quickly being banned. Topics presented during the eight-day meeting will include sterility in mosquitoes, chemically-induced reduction of egg production in females and genetic manipulation of mosquito traits. Faculty participants will be Dr. Karamjit Rai, professor of biology, Dr. Morton S. Fuchs, associate professor of biology and Dr. William Hickey, professor of biology at St. Mary's College.

Craig stressed the importance of developing biological controls for mosquitoes quickly, as bans on pesticides have created serious problems in some areas. "At present, we have no positive alternatives to pesticides," he explained "and neither government, industry nor universities seem to be willing to test or develop any."

-30-