

DEPARTMENT of PUBLIC INFORMATION

James E. Murphy, Director - Area Code 219, Phone 284-7367

65/87

For immediate release: -----

Notre Dame, Ind., Dec. 17-- The University of Notre Dame today announced plans for a \$2,524,000 project including the purchase of a new, 15-million electron volt "atom smasher" for basic nuclear physics research and the erection of an addition to Nieuwland Science Hall to house it.

Rev. Theodore M. Hesburgh, C.S.C., University president, said acquisition of the 80-ton electrostatic accelerator, nearly four times more powerful than an instrument built here ten years ago, has been made possible by a \$1,850,000 grant to the department of physics from the National Science Foundation. The NSF and the University, he said, each will contribute an additional \$337,000 for the construction of the building.

Prof. Charles J. Mullin, head of the Notre Dame physics department, said the University is ordering a specially-modified "King-size Tandem Van de Graaff" accelerator from the High Voltage Engineering Corporation of Burlington, Mass. He described the instrument as "one of the most versatile accelerators in the country" and said two years would be required for construction and installation. Much of its auxiliary equipment will be specially designed by Notre Dame physicists and built locally, he said.

Seven Notre Dame faculty members, one of the most experienced groups in the use of electrostatic accelerators for nuclear research to be found in the country, will use the new facility in their investigations. They are Profs. Cornelius P. Browne, Paul R. Chagnon, Sperry E. Darden, Emerson G. Funk, John W. Mihelich, Walter C. Miller and Bernard Waldman. Primary planning for the new machine was done by Miller, Darden and Browne with Browne serving as corresponding principal investigator for the NSF grant.

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A spokesman for the group said the new "atom smasher" will be installed "because higher bombarding energies than those now available" are required for its work. He explained that bombarding particles will be given approximately 20-million electron volts of energy by the new accelerator when it is used in conjunction with the present 4-million volt accelerator. These very high speed particles will produce reactions in atomic nuclei, make radioactive materials or extremely penetrating X-rays.

The powerful new instrument, according to the Notre Dame physicists, will enable them to carry out many highly precise measurements of nuclear structure and nuclear reaction energies. They said the new facility will be used "day and night" for basic nuclear research by faculty members, by graduate students doing doctoral research, by postdoctoral research scientists and even by some advanced undergraduate students. Three theoretical physicists in the department will work closely with the greatly expanded experimental program. Currently there are seventy-seven graduate students in the physics department, and twenty-eight of these are working with the present accelerator and in nuclear spectroscopy.

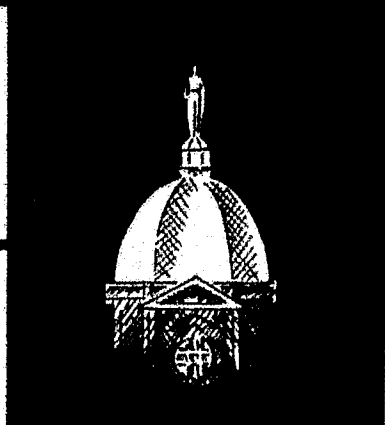
The addition to Nieuwland Science Hall, which will be contiguous with the present accelerator vault, will include three target rooms shielded by walls up to 7-feet thick to contain the radiation produced. A control room, data analysis room, electronics shop and three equipment rooms are also to be housed in the 18,600 square foot building. An elaborate switching system will direct the particle beam into one of 19 target positions. Either positive or negative voltage may be produced in the 12-foot by 43-foot high-pressure tank, and many different particles including protons, deuterons, electrons and heavy ions can be accelerated.

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Notre Dame physicists were among the first to use electrostatic accelerators, popularly called atom smashers, in studying the atomic nucleus, and they have built three such machines themselves. In 1934, Dr. Edward A. Coomes and Dr. George B. Collins, built one of the earliest accelerators in the country. A second machine played an important role in the World War II "Manhattan Project" which led to the development of the atomic bomb. The instrument now being used, which will continue in use as part of the new facility, was built by Drs. Waldman and Miller in 1955 and has been used by Dr. Miller for his research since then.

Basic research programs in nuclear reactions, measurements of nuclear reaction energies, interactions of electrons with atoms and nuclei, and polarization effects in nuclear reactions have been pursued in recent years by Drs. Browne, Miller and Darden with support from the Joint Program of the U.S. Office of Naval Research and the Atomic Energy Commission, the ONR and the National Science Foundation. A program in nuclear spectroscopy has been conducted for some time by Drs. Funk and Mihelich with support from the AEC. Discoveries made in these programs developed the need for a more powerful accelerator.

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For release in PM's, Monday, December 20th:

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Notre Dame, Ind., Dec. 20 -- Eight graduates of the University of Notre Dame have been nominated to serve on the board of directors of the Notre Dame Alumni Association, it was announced today by executive secretary James E. Armstrong.

Four of the men will be elected to three-year terms on the board in balloting currently underway among more than 30,000 Notre Dame alumni throughout the country.

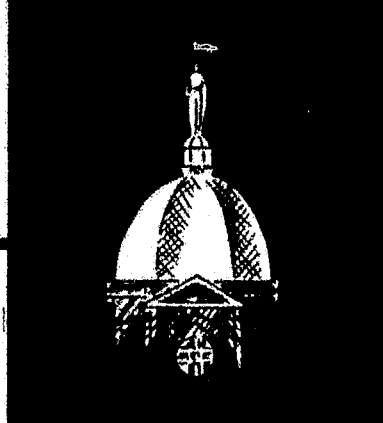
The nominees are William G. Burkhardt, '35, president of the Burkhardt Consolidated Co., Akron, Ohio; Paul Fullmer, '55, vice-president and assistant to the president of The Selz Organization, Chicago, Ill., public relations firm; James C. Hennessy, '52, Louisville, Ky., insurance and real estate agent; and William D. Kavanaugh, '27, manager of American Cyanamid Co., Washington, D.C.

Also William F. Kerwin, Jr., '40, vice president and general manager of the Green Bay (Wisc.) Warehouses, Inc.; Frank L. McGinn, '52, of McGinn Bros., Inc., Realtors, Pompano Beach, Fla.; Richard A. Rosenthal, '54, president of the St. Joseph Bank and Trust Co., South Bend, Ind.; and Dr. Leo V. Turgeon, Jr., '42, Los Angeles, Calif. physician and assistant clinical professor of surgery at Southern California's School of Medicine.

The newly-elected members of the 12-man board of directors will be installed at its winter meeting on the campus beginning January 20th.

Lancaster Smith, Dallas, Tex., attorney, currently is serving as president of the Notre Dame Alumni Association.

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For release in AM's, Wednesday, December 22nd:

65/89

Notre Dame, Ind., Dec. 21 -- The University of Notre Dame Press and six other university presses -- Illinois, Indiana, Pennsylvania State, Texas, Washington and Wisconsin -- have opened a London Sales Office. This joint enterprise will be operated under the name of American University Publishers Group and will be located at 26-28 Hallam Street, London W.1.

The University of Notre Dame Press has formed a subsidiary company in England which will be publishing books for the English market, and the title pages of all its books will in future bear the designation "Notre Dame, Indiana and London."

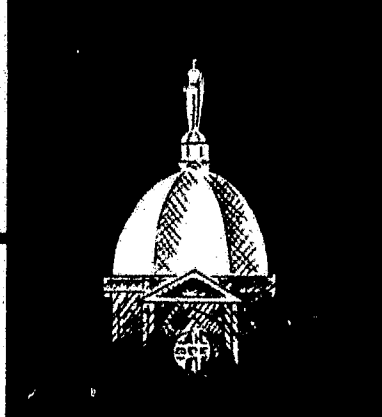
"This will make it possible for our books to be included in all book-listing media and library selling tools in Great Britain, to be reviewed by British media, and to be introduced systematically into British (and later on European) bookstores," Emily Schossberger, director of the University of Notre Dame Press, stated.

The officers of the AUPG are Thompson Webb, Jr., Director of the University of Wisconsin Press, chairman; Rowland Singluff, Director of the Pennsylvania State University Press, treasurer; and Emily Schossberger, Director of the University of Notre Dame Press, secretary.

The Board of Directors of the University of Notre Dame Press, Ltd., are: Rev. Jerome J. Wilson, C.S.C., the University's vice president for business affairs; Rev. John E. Walsh, C.S.C., vice president for academic affairs; Rev. Paul E. Beichner, C.S.C., Dean of the Graduate School; and Miss Schossberger.

The London sales office will be managed by Mr. John Walter, formerly with Butterworth Publications in London, a division of Prentice Hall. Publishing and shipping will start on March 1, 1966.

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EDITORS: PLEASE GUARD AGAINST PREMATURE RELEASE.
IN VIEW OF THE INTERNATIONAL AND ECUMENICAL CHARACTER OF THIS ANNOUNCEMENT, YOUR STRICT OBSERVANCE OF THE RELEASE DATE AND TIME WILL BE PARTICULARLY APPRECIATED.

For release at 8 a.m. EST, Wednesday, December 15th:

Notre Dame, Ind., Dec. 15 -- Reverend Theodore M. Hesburgh, C.S.C., President of the University of Notre Dame and President of the International Federation of Catholic Universities, today made the following announcement as Chairman of the recently established Academic Council of a proposed new ecumenical institute.

ANNOUNCEMENT

A group of Roman Catholic, Orthodox (Chalcedonian and non-Chalcedonian), Protestant, and Anglican theologians, meeting at Villa Serbelloni (a Rockefeller Foundation conference center), at Bellagio, Lake Como, Italy, has constituted itself the Academic Council of an ecumenical institute for advanced theological studies, to be established at Jerusalem, Jordan. This action was taken in response to an invitation from the International Federation of Catholic Universities, which had been entrusted by Pope Paul VI with responsibility for initiating the project. In recent ecumenical encounters, the desire has been expressed for a program of common theological research, with special emphasis on the theme of the redemptive acts of God in history and their meaning for the men of our day. The institute is being planned to serve this purpose.

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The members of the Academic Council considered the academic, administrative, and financial problems involved in setting up the ecumenical institute, as well as questions of program and personnel. It was agreed that the program should be of a substantial academic character. The institute will be concerned first and foremost to provide established scholars and post-graduate theological students with the means for common research. It is expected that it will serve further as a center for the development of an ecumenical outlook among both the clergy and the laity, through individual study, seminars, and conferences. It is also the intention of the Academic Council that the program of studies should be carried on in an atmosphere of prayer and worship.

The institute is to be fully ecumenical in spirit and structure. Members of the Academic Council have been invited to serve on the basis of their ecumenical experience, as well as their academic qualifications. The Council will assume full responsibility for the academic direction of the institute.

The following members of the Academic Council were present at the Bellagio meeting:

Dr. Robert McAfee Brown (United Presbyterian Church, U.S.A.)
Stanford University, California

Rev. Walter J. Burghardt, S.J. (Roman Catholic)
Woodstock College, Maryland

Principal J. Russell Chandran (Church of South India)
United Theological College (Serampore University)
Bangalore, India

Professor Panayotis Christou (Orthodox), Vice Rector,
University of Thessalonika, Greece

Rev. Yves Congar, O.P. (Roman Catholic)
Strasbourg, France

Professor Oscar Cullmann (Lutheran Church)
University of Basle and Paris, Basle, Switzerland

Dr. Eugene Fairweather (Anglican), Faculty of Divinity
Trinity College, University of Toronto, Canada

Rev. John Feiner (Roman Catholic), Priesterseminar St. Luzi,
Chur, Switzerland

Right Reverend Georges Florovsky (Orthodox)
Department of Religion, Princeton University, New Jersey

Rev. Theodore M. Hesburgh, C.S.C., Chairman (Roman Catholic)
President, International Federation of Catholic Universities

Father K. C. Joseph (Orthodox Church in India), Dean, Holy Trinity
Theological College of the Ethiopian Orthodox Church,
Addis Ababa, Ethiopia

Dr. John N. D. Kelly (Anglican), Principal, St. Edmund Hall,
Oxford University, England

Professor Arthur C. McGill (United Church of Christ)
Department of Religion, Princeton University, New Jersey

Rev. Jorge Medina E. (Roman Catholic), Dean, Faculty of Theology,
Catholic University of Chile, Santiago

Professor Paul Minear (United Church, U.S.A.), Divinity School,
Yale University, New Haven, Connecticut

Rev. Charles Moeller (Roman Catholic), Professor,
University of Louvain, Belgium

Dr. Albert Outler (The Methodist Church, U.S.A.), Perkins School
of Theology, Southern Methodist University, Dallas, Texas

Dean Howard Root (Anglican), Emmanuel College
University of Cambridge, England

S. E. Mgr. Karekin Sarkissian (Non-Chalcedonian Orthodox)
Rector, Armenian Theological School, Antelias, Lebanon

Professor Rudolf Schnackenburg (Roman Catholic), Professor,
Catholic Theological Faculty, University of Wurzburg, Germany

Professor Joseph Sittler (Lutheran Church, U.S.A.), Divinity School
University of Chicago, Illinois

Owing to unforeseen circumstances, the following members were unable to attend:

Rev. Pierre Benoit, O.P. (Roman Catholic), Rector, Ecole Biblique, Jerusalem, Jordan

S. E. Mgr. Chrysostom Constantinidis (Orthodox)
Metropolitan of Myra, Professor in Chalki, Istanbul

Rev. Raymond Panikhar (Roman Catholic), Veranasi, India

Professor Marcos Siotis (Orthodox), Professor in Athens, Greece

Further nominations to the Academic Council will be announced at a later date.

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NEWS RELEASES FOR DECEMBER, 1965

65/87	12/17	NSF grant for 15-million electron volt "atom smasher" and addition to Nieuwland Science Hall.
65/88	12/20	Nominees for Alumni Association Board of Directors.
65/89	12/22	University of Notre Dame Press opens London office.