

# Physics Chairman Seeks Expansion In Research

money for today's increasing scientific activity have the right to know what their money is being used for." Valk also emphasized communication with four-year colleges in Nebraska and neighboring states and with local high schools, where University physicists "It is important that the University — which is 500 miles from major centers of scientific activity — have a relatively balanced program and a self-contained group of scientists," he said. "We have this in our department. "In addition, it is important that our professors be competent and understanding teachers," Valk said. "Besides those students who intend to pursue physics as a career, there are close to 1,000 students every semester who need physics as background for their studies in such fields as engineering, agriculture and medicine. A physics department such as Nebraska's can aspire to be among the leaders in certain fields, he said. "For example, infor-

mation obtained from our accelerator is utilized by workers from all over the country, from Berkeley to Chicago to Harvard. "This is the type of goal a department in a state university should try to achieve." As a beginning to the department's planned expansion, Valk hopes to add a solid state theorist and an astrophysicist during the spring semester. The department's balance is illustrated by the range of research programs currently being undertaken by theoretical and experimental physicists. Dr. Valk divided these projects into several areas: —Atomic and molecular. "This is the longest continually-supported grant by the Atomic Energy Commission at the University. The original contract was awarded in 1948. "In our case, it again reflects the phenomenon that if you work continuously in a certain field, you often find yourself in the forefront. Universities and laboratories all over the coun-

try are interested in the types of work being done here by Drs. Theodore Jorgensen, Duane Jaacks and Eugene Rudd. —Solid state. Drs. Edgar Pearlstein and J. W. Weymouth are working in this area. "These experiments tell something of the forces that hold solids together. An array of atoms might be out of order and thus affect surrounding atoms and the strength of the material. "The AEC is often interested in growth and communication are two main goals of the new chairman of the physics department at the University. "I feel that we have a strong and vigorous department," said Dr. Henry Valk, who returned to the University after a leave of absence as National Science Foundation program director for theoretical physics. "Our staff is predominantly made up of young scientists who are rising in their fields and gaining national recognition for their work. "With the completion of the Behlen Laboratory of Physics in 1965, the stage has been set for an expansion in the staff and activity needed for a growing department," Valk continued, noting that the University has a pending request before the NSF to expand the physics department in the next five years to 33 professors and 120 graduate students. "Scientists, of course, often prefer to do their work and be left alone, but the responsibility to be a part of the community is one that every man on our staff feels," he said. "Those who put up the ested in this kind of work because of the rapid degrading of materials in their reactors when exposed to radiation. —Energy loss of radiation and particles in matter. "Former department chairman Dr. E. J. Zimmerman, for example, is concerned with the mechanism for energy loss in matter — a study of how particles produced in our 350,000-volt accelerator are slowed down when they enter matter. In the same general area, Dr. Paul Byerly is interested in the absorption of radiation in matter. Dr. Robert Katz is studying the similar effects produced by cosmic ray particles of very high energies. His studies have a bearing on such widely different topics as the birth and death of stars and the treatment of cancer. —Theoretical physics. A theoretical physicist is one who formulates the results of experimental physicists by means of mathematics. Most of the current important branches of theoretical physics are represented on the staff: high energy and elementary particle physicists are Drs. David Joseph, Dan Schlitt, William Campbell and Paul Finkler; solid state theory, Dr. Sitaran Jaswal; astrophysics and relativity, Dr. Thomas Morgan. Dr. Valk is a nuclear physicist.



PROBLEMS IN THEORETICAL PHYSICS . . . are discussed by Dr. Henry Valk, (center) chairman of the Department of Physics, with graduate student Jim Costello (left) and Dr. Thomas Morgan, assistant professor.

## Union Ride Board Aids Transportation Seekers

Helping to provide transportation for homeward bound students is the Nebraska Union ride board. This board informs students desiring riders or rides to all parts of the state and nation of similarly interested persons by having the students post the necessary information. The board is divided into ten divisions and students desiring to travel to a particular area place a card on the corresponding hook below the board. There are two services provided by the board, one for students desiring rides and the other for students desiring riders to travel with them. There are two maps on the board, one of Nebraska and one of the United States. According to Rich Scott, Union program director, the Nebraska board is used much more than the national board. He estimated that about 1,000 people use the boards during the course of a school year. Scott said that the probable success rate is nearly one-third. The Nebraska board has nearly 100 per cent success because of the number of students who travel to the various parts of the state every week. The present board, which is located outside the TV room in the Union, was constructed three years ago at a cost of several hundred dollars. Previously, a map was hung outside the cafeteria and interested students put their name on a card and stuck a pin in the map designating the area to which he wanted to travel.

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## Campus Calendar

- WEDNESDAY  
 PLACEMENT Office Luncheon, 12:30 p.m., Nebraska Union.  
 YWCA - Cultural Crafts, 2:30 p.m., Nebraska Union.  
 BUILDERS - Tours, 3:30 p.m., Nebraska Union.  
 AWS - College Days 3:30 p.m., Nebraska Union.  
 YWCA - Christmas Bazaar, 3:30 p.m., Nebraska Union.  
 BUILDERS - Advertising Union.  
 BUILDERS - Special Edition, 3:30 p.m., Nebraska Union.  
 EAST CAMPUS PROJECTION, 4 p.m., East Union.  
 ASUN - Student Senate, 4 p.m., Nebraska Union.  
 RED CROSS, 4:30 p.m., Nebraska Union.  
 UNION Special Events Committee, 4:30 p.m., Nebraska Union.  
 YWCA - Cultural Tours, 4:30 p.m., Nebraska Union.  
 AWS Representatives, 4:30 p.m., Nebraska Union.  
 UNION Public Relations, 4:30 p.m., Nebraska Union.  
 TOASTMASTERS Club, 5:30 p.m., Nebraska Union.  
 YWCA - Head Start Program, 6:30 p.m., Nebraska Union.  
 BUILDERS Board, 7 p.m., Nebraska Union.  
 WILDLIFE Club, 7 p.m., Nebraska Union.  
 KOSMET KLUB Rehearsal, 7 p.m., Nebraska Union.  
 ARNOLD AIR Society Interviews, 7 p.m., Nebraska Union.  
 NU MEDS, 7:30 p.m., Nebraska Union.  
 BUSINESS & ECONOMICS Round Table, 7:30 p.m., Nebraska Union.  
 SDS, 7:30 p.m., Nebraska Union.  
 LAMBDA TAU, 7:30 p.m., Nebraska Union.  
 ALPHA PHI OMEGA, 7:30 p.m., Nebraska Union.  
 CIRCLE K, 7:30 p.m., Nebraska Union.  
 MATH Counselors, 7:30 p.m., Nebraska Union.  
 THETA SIGMA PHI, 7:30 p.m., Nebraska Union.  
 NU VETS, 8 p.m., East Union.

## Coney To Direct CBC Gemini Shot

Lee Coney, assistant professor of journalism, will act as manager of news operations for the Columbia Broadcasting System's coverage of the Gemini 12 space mission. Coney will direct CBS operations at the launch site at Cape Kennedy. After the firing, he will fly to Houston to join the coverage team at the Manned Space Center. Coney also directed CBS coverage of the Gemini 11 flight. He is head of the broadcasting sequence at the School of Journalism.



SUPPORTING THE AUF DRIVE . . . pledges Sam Thorson, Cherie McCullough, Bobbi Hall and Steve Reppert will auction off their tickets to the Oklahoma game this week end.

## Pledge Classes Sell OSU Tickets

As a public service project the Theta Xi fraternity and Gamma Phi Beta sorority pledge classes will auction 52 tickets for the Oklahoma State football game over KLMS radio station Thursday evening from 7 p.m. to 9 p.m. The pledge classes will contribute the proceeds from the ticket auction to

the All University Fund drive, according to Terry Grasmick, Theta Xi pledge class vice president. The public may call KLMS at 489-3855 between 7 p.m. and 9 p.m. to bid on the tickets. The top 52 bidders will receive their tickets Thursday evening and their names will be recognized over the air, Grasmick said.

The highest 52 bids at any one time have priority, Grasmick said, "until someone tops any of these bids. Then the lowest of the 52 bidders will be dropped. KLMS will announce a running account of the minimum bid, Grasmick added. The ticket office will allow the persons holding these tickets into the game without identification cards. Grasmick explained that it is possible to bid on entire blocks for families or friends. The tickets are valid for seats in the South stadium. The two pledges classes had originally planned a social function to the football game, Grasmick said, but they decided that donating their tickets instead would be a worthwhile way to help the AUF drive.

## SNCC Votes To Remain Affiliated With National

In a decision to remain friends of the Student Non-violent Coordinating Committee (SNCC), Friends of SNCC voted Tuesday to send \$150 to the SNCC national office in Atlanta. There had been questions concerning the affiliation and the status of the FSNCC campus group since the beginning of the semester, however it was decided in the meeting that "there is no reason not to keep our SNCC affiliation", according to Gene Pokorny. The question of status solely as a fund-raising organization was resolved with passage of a motion to set up three committees — two for educational purposes and one for raising money to support SNCC or local action projects. Internal and external education committees will be involved with bringing speakers to campus and disseminating literature about the civil rights movements.

specifically the black power concept of SNCC. A sequel to the Students for a Democratic Society (SDS) sponsored black power teach-in was discussed. The sequel would contain local people and try to give the white liberal viewpoint of black power, according to one member. Seminar groups on civil rights may be in the offing for FSNCC as the internal education committee discussed the advisability of such extra-curricular classes on campus.

## Accident Victim Is Hospitalized

A University student, Robert Wilson, was struck by a car in an accident on 16th and Vine Tuesday afternoon. He was taken to Lincoln General Hospital where he was placed under observation.



JOHN STRUVE

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**On Campus** with Max Strulman  
 (By the author of "Rally Round the Flag, Boys!", "Dobie Gillis", etc.)

## "M" IS FOR THE MANY THINGS YOU'LL TEACH HER

Nobody will dispute—surely not I—that raising children is a task which requires full time and awesome skills. Nonetheless, a recent nationwide survey has revealed a startling fact: mothers who go back to work after their children are safely through the early years are notably happier, better adjusted, and more fulfilled than mothers who simply remain housewives. Moreover—and mark this well—the children of such working mothers are themselves happier, better adjusted, and more fulfilled! All very well, you say, but what's it got to do with you? Isn't it obvious? If you are underachieving at college, get your mother a job. What kind of job? Well sir, your mother is probably between 35 and 50 years of age, so certain occupations must immediately be ruled out. Logging, for example. Or whaling. Or carhopping. But don't despair. There are other kinds of jobs—not many, to be sure, but some. However, you must not stick Mom in just any old job. You must remember that after the excitement of raising you, she would be bored to tears as a file clerk, for instance, or as a doorman. (A doorman, as we all know, is someone who brings handfuls of water to track layers. With the recent invention of the pail, doorman are gradually falling into technological unemployment.) But I digress. I was saying, find Mom a job worthy of her talents, something challenging that uses her vast wisdom and experience but, at the same time, is not too hard on her obsolescing tissues. That's what Walter Sigafoss did, and the results were brilliantly successful. Walter, a sophomore at the Upper Maryland College of Wickerwork and Belles Lettres, majoring in raffia, approached the problem scientifically. First he asked himself what his mother did best. Well sir, what she did best was to keep hollering, "Dress warm, Walter!" At first glance this seemed a skill not widely in demand, but Walter was not discouraged. He sent out hundreds of inquiries and today, I am pleased to report, his mother is happily employed as wardrobe mistress for the Montreal Canadiens. Another fortunate venture was that of Frank C. Gransmire, a junior at the Oregon State Conservatory of Music and Optometry, majoring in sties. Frank, like Walter, did a survey in depth of his mother's talents. Chief among them, he found, was her ability to make a roast of beef feed the whole family for three days. So, naturally, Frank got her a job at the Museum of Natural History. What has one to do with the other, you ask? Isn't it obvious? Anyone who can stretch ribs like that belongs in paleontology.



I cannot conclude this column without saying a few words about Personna Super Stainless Steel Blades. The reason I cannot is that this column is sponsored by the makers of Personna Super Stainless Steel Blades, and they are inclined to get peckish if I omit to mention their product. Not, mind you, that it is a chore for me to plug Personna. Or, for the matter of that, to shave with Personna. No sir: no chore. Personna takes the pain out of shaving, scrapes the scrape, negates the nick, repudiates the rasp, peels the pull, boycotts the burn, blackballs the bite, roasts the ouch. Furthermore, Personna endures and abides, gives you luxury shave after luxury shave, day after day after day. And further furthermore, Personna is available both in double-edge style and injector style. And as if all this were not bounty enough, Personna is now offering you a chance to grab a flatful of \$100 bills! Stop at your Personna dealer and get an entry blank for the new Personna Super Stainless Steel Sweepstakes. But hurry! Time is limited.

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