

Speakers View Aspects Of Security, Economics

By NANCY COOVER Staff Writer

The field of atomic energy is something the average citizen cannot ignore.

Ashton O'Donnell, manager of nuclear economics at Stanford Research Institute, pointed this out in his speech to the Nuclear Energy Institute Thursday.

The Stanford Institute has looked at various industries and studied the impact of atomic power on them. An estimated two-thirds will be affected, he said.

O'Donnell said nuclear economics gives a meaning to the abstract concepts of atomic energy. It makes a study of atomic know-how, markets and diversification.

The study enables businesses and corporations to get into the atomic energy business, gives information on how to do it, tells how many other businesses are trying to do the same thing, and illustrate the right kind of equipment and personnel to use.

Through the use of nuclear economics, the effects of nuclear power on industry and agriculture have been demonstrated, he said.

O'Donnell said that industries such as a metal mining and food processing must observe the significance of the effect which atomic energy will have on them.

The range of effect has been divided into supply and utilization; utilization is further divided into power, heat and radiation in order to make the effect clearer, O'Donnell said.

The money involved underlies the importance attached to atomic energy," O'Donnell said. From 1955 to 1960, approximately 2-million kilowatts of atomic power will be installed at the rate of about \$400 per installed kilowatt.

Each kilowatt will cost approximately \$300 in the period from 1960 to 1965 and the cost will continue to decrease, he said. Three-million kilowatts will be installed in the 1960 to 1965 period, O'Donnell added.

Atomic energy will also affect agriculture, through radiation food storage could be improved so that food can be stored over longer periods of time, O'Donnell stated.

"When is atomic energy important?" O'Donnell asked. "The only answer I can give is now."

Speaker Clarifies Methods

By BARB SHARP Staff Writer

The method of producing uranium 235 or plutonium, the fissionable materials used for fuel power reactors and bombs, was explained Thursday by Shelby Thompson, deputy director of the Division of Information Services of the Atomic Energy Commission.

Thompson spoke on "The Atomic Enterprise of the United States" before the Nuclear Energy Institute meeting at the Union Thursday and Friday.

Although the mining and some of the processing of uranium is largely done by private concerns, Thompson declared, the end product is solely controlled by the government.

"After the raw material containing uranium is found and dug from the ground, it is concentrated, since most of the ore has such a low percentage of uranium content," he said.

The ore is then purified and the process divides into two processes, one leading to pure uranium 235 and the other to plutonium. After the uranium 235 has been obtained it is changed from its gaseous state to the form used for weapons, and combined with other materials.

Uranium 235 is found in natural uranium to approximately sevenths of one per cent.

The other branch of the process leading to plutonium requires that oxide be converted to a metallic uranium and sent to plants where part of it is converted into plutonium, he said.

The plutonium then has to be separated from the uranium metal and reduced to a form for weapon parts, explained Thompson. Finally, the weapons have to be tested.

One of the major testing laboratories for weapons is the Nevada proving ground. The major peacetime applications of atomic power are for heating and for the propulsion of naval craft," he said. "Although atomic heating for industrial plants can be used, heating for ordinary purposes is not as economical as conventional fuels," Thompson said.

There is a new departure from the old security program concerning atomic energy, he said. Access to classified information for persons not directly working for the government is possible under the revised system; persons working for the peacetime application of classified or so-called "secret" information, provided they come through prior investigation, he said, throughout the country, he said.

The main program of classified research is carried on in the government laboratories at Oak Ridge, Tenn., Thompson said. Many laboratories are being established at colleges and universities throughout the country, he said.

He cited the example of the lab at Iowa State College and of the radiation laboratory at the University of California. "They all have buildings and costs paid for by the Atomic Energy Commission," Thompson said.

Thompson said that he did not intend to say that the government is neglecting its security program around atomic energy. He pointed out that it must not be taken for granted that the enemy has as much knowledge about nuclear energy as we do and therefore security measures are not important.

At the same time, however, he said the government is anxious to have interested persons have as much information about atomic energy as is possible under an adequate security program.

Atomic energy for peacetime purposes will be used mainly by physicians, researchers and manufacturers, he said. He added that time and events are bringing about changes which will affect the status of the country's atomic program.

Exam Schedule

| | |
|----------------|-----------------------|
| 1-4 p.m. | SATURDAY, JANUARY 21 |
| 9-12 a.m. | TUESDAY, JANUARY 24 |
| 3-5 p.m. | WEDNESDAY, JANUARY 25 |
| 8-10 a.m. | THURSDAY, JANUARY 26 |
| 11 a.m.-1 p.m. | FRIDAY, JANUARY 27 |
| 2-5 p.m. | SATURDAY, JANUARY 28 |
| 9-12 a.m. | SUNDAY, JANUARY 29 |
| 2-5 p.m. | MONDAY, JANUARY 30 |
| 9-12 a.m. | TUESDAY, JANUARY 31 |
| 2-5 p.m. | WEDNESDAY, FEBRUARY 1 |
| 9-12 a.m. | THURSDAY, FEBRUARY 2 |
| 2-5 p.m. | FRIDAY, FEBRUARY 3 |
| 9-12 a.m. | SATURDAY, FEBRUARY 4 |
| 2-5 p.m. | SUNDAY, FEBRUARY 5 |

Worship, Study: The Religious Week

Baptists and Disciples of Christ Student Fellowship
1237 R
Sunday: 5 p.m. Fellowship, supper, worship and forum.
Tuesday: 7:30 p.m. workshops.
Wednesday: 7:30 p.m. chapel.
Thursday: 4 p.m. coke and discussion.

Lutheran Student Fellowship
535 North 16th
Sunday: 10 a.m. Bible Study; 11 a.m. Worship; 5:30 p.m. LSA.
Wednesday: 7 p.m. Vespers; 7:30 p.m. Choir.

Ag Lutheran Student House
1200 N. 37
Sunday: 9:45 a.m. Bible Study; 5 p.m. Exchange.
Newman Club
1602 Q
Sunday: 8 a.m., 9 a.m., 10 a.m., and 12 noon masses.
Weekday Masses: 6:45 a.m. and 7:15 a.m.
Daily Rosary: 12:40 p.m. and 5 p.m.
Religion classes: 11 a.m. Tuesday and Thursday; 7 p.m. Tuesday, Wednesday and Thursday.

University Episcopal Chapel
346 N. 13th
Sunday: 9 a.m. Holy Communion; 11 a.m. Morning Prayer.

University Lutheran Chapel
15th and Q
Sunday: 10:45 a.m. Advent worship; 5:30 p.m. Gamma Delta supper, followed by topic, "Our Ministry to the Silent World" (Pastor E. Mappes, Omaha), and Bible study.
Tuesday: 7 p.m. Christian doctrine group.
Wednesday: 7 p.m. choir rehearsal and recording.

Presbyterian-Congregational Fellowship
333 N. 14
Sunday: 9 a.m. Work party.
Sunday: 9:30 a.m. Study group; 4 p.m. combined committee meeting.

Psychologists Plan Meeting Saturday

The Nebraska Psychological Association will meet at the University Saturday.

Five University graduate students will present papers at the morning session. They are William Alexis, Sachio Ashida, Chris Koronakos, James Cho and William Wokoum. Cho will give his paper in co-operation with William Arnold, associate professor of psychology.

Guest speaker at the afternoon session will be William Sawrey from the University of Denver Medical School. He will report on research in the somatic effects of psychological stress in rats.

The meetings will be held in the Faculty Lounge of the Union. The first session will be at 9:30 a.m. with a business meeting scheduled for 1:30 p.m. and Sawrey's lecture at 2 p.m.

Home Ec: Ag Swedish Buffet Set For Saturday

Costumes and decorations will carry out the Swedish theme of the annual Home Economics Smorgasbord Saturday in the Food and Nutrition Building on Ag campus from 5 p.m. to 7 p.m.

Tickets are \$1.50 and can be obtained from any Home Economics Building.

Helen Barnette, Marilyn Stride, Pat Stalder, Carolyn Edwards, Dean Glock, Larry Voss and Bill Spilker will wear native costumes.

The food will be prepared by members of the Home Economics Club. Included in the menu will be: baked ham with pineapple, spiced crab apple, pickled herring, a variety of cheeses, Swedish tea ring, rice pudding with Lingonberry sauce and peppernuts.

Ruth Ernst is general chairman for the event and Edna Cleveland is her assistant.

Other chairmen are: tickets, Trudy Sokol and Helen Bishop; food, Meg Wright, Ruth Vollmer, Judy London and Janet Hightree; kitchen, Twila Riley and Kay Skinner; waitress, Marian Sokol and Janet Lovseth; hostess, Margie Edwards; decorations and favors, Ann Luchsinger, and Sara Alexander; equipment, Shirley Richards; room arrangement, Marion Koch and Ruth Anne Clarke; clean up, Virginia Reeves and Verna Searl; publicity, Ellen Jacobsen and Carrie Rhodes.

According to the chairman, those wishing tickets should buy them in advance since only 500 tickets are available.

Ohio Specialist To Address Convocations

Dr. Viola Cassidy, specialist in human growth and development and special education at Ohio State University, will speak at a series of convocations Monday and Tuesday.

The convocations are jointly sponsored by the University Convocations committee and the departments of educational psychology and measurement, elementary education and secondary education.

The schedule is: Monday, 9 a.m. and 1 p.m., undergraduate joint convocations for Teachers' College students, Love Library Auditorium; 8 p.m. speech on "Meeting the Needs of the Gifted Child in the Regular Classroom," Union Ballroom.

Tuesday, 10 to 12 p.m., meeting for Teachers' College graduate students, Union Room 315; 4 p.m., meeting for elementary and secondary education student teachers, Love Library Auditorium.

Military Ball Pictures

Kappa Alpha Mu, photography honorary, will take pictures at the Military Ball, Friday.

Group or individual shots will be taken and be made available to the students, according to Dale Baker, president.

Chancellor's Conference: Student Affairs, Exams Discussed

Following the weekly Student Council meetings, Chancellor Clifford Hardin has been holding a Round Table discussion with various groups of the Council.

Roland Hjorth, Bev Deepe, Jane Jeffrey, Gail Katskee, Mick Neff, Sue Simmons, Sam Van Pelt, Bernie Wishnow and Skip Hove met with Hardin and Dr. A. C. Breckenridge this week.

Different aspects of the University were considered. Views were voiced on making the library easier to use. Sue Simmons suggested including instruction in the use of the library in freshman English courses.

Chancellor Hardin pointed out the University had "one of the best libraries anywhere," and that few colleges have the open stacks.

Gail Katskee proposed more student participation in committees such as the Calendar, Exams, and Student Affairs committees.

The administration would be receptive to such organization in government, Hardin answered. Faculty is usually softer on the student

in disciplinary actions that a student disciplinary board, he continued.

It was asked if professors could be encouraged to put off exams before and right after Homecoming. As the University becomes a show place during this time, it was thought better displays could be made if exam pressure were relieved.

This year, Homecoming coincided with 10-week exams. Arranging a different date for Homecoming, so that it would not coincide with exams was discussed.

A minor problem was that none present knew who decided the Homecoming date.

Asked about the student-administration relationship, Hardin said he could see no breach in feelings between the students and the administration.

To a question on the new coach, he said he did not know of any selection, but that the new coach would be a man of high calibre firstly and coaching ability after that. He believes that is what most people in the state want.

Rauch, Fahrbruch: AUF Names Walling, Other Honor Workers

Gail Walling was named outstanding AUF worker for the 1955 drive at a meeting Thursday.

Karen Rauch was named outstanding publicity worker and Melva Fahrbruch was selected as outstanding solicitations worker.

Miss Walling is a junior in Arts and Sciences and a member of Builders Board and Delta Gamma. She assisted in independent solicitations.

Miss Rauch is a sophomore in Arts and Sciences and is a member of Red Cross and Alpha Phi. She was newspaper assistant.

Miss Fahrbruch is a junior in Teachers' College and a member of Builders Board, NUCWA Board, an AWS house representative and Alpha Phi social chairman. She worked on sorority solicitations.

AUF also recognized outstanding service to the organization at the meeting. Andy Smith, outgoing president, presented certificates of merit to workers contributing outstanding service to the organization.

Filings for board positions for next year opened Thursday night. Interviews will be held Dec. 10, beginning at 8:30 a.m. Smith said.

New board members will be notified that night, he said. Installations will be held Dec. 11.

Glenn Miller Story Set For Free Sunday Movie

"The Glenn Miller Story" will be the free movie shown in the Union ballroom Sunday at 7 p.m.

The movie stars Jimmy Stewart and Jane Allyn and will feature such hit songs as "Tuxedo Junction," "Little Brown Jug" and "In the Mood."

tion of executive officers and board members will be Dec. 15, the last meeting of this year's board.

Positions open for next year include newspaper publicity, special events, mass meetings and education of workers, speakers and demonstrators, both and art committees on the publicity board.

Solicitations board positions open include Ag independents, Ag organizations and organized houses, independent solicitations, fraternities, sororities, organizations and organized houses, men's dorm, graduate and professional schools and faculty.

An office head and two assistant treasurers will also be selected.

"It is not necessary to have had AUF experience to apply for a board position," Sam Jensen, vice-president in charge of publicity-elect, said.

Jensen said he wanted to encourage all interested students to apply.

Several constitutional revisions were suggested by the outgoing executive officers at the Thursday's meeting.

They included several changes in the board set-up, such as suggesting the creation of several new board positions, the elimination of several former ones and the re-portionment of duties in several cases.

The amendments will be considered at AUF's next meeting, Dec. 8.

You Are Invited To Worship

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Morning Worship—11:00 A.M.
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KFOR—11:30 A.M.

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