



SMOOTH AND DREAMY—One thousand couples danced to the music of the Tommy Dorsey Orchestra, conducted by Warren Covington, at the Military Ball held last night in Rec Hall.

Christmas Parties Planned for Orphans

Christmas parties for orphans will be given by students in both the Nittany and North Halls areas.

Plans have been completed in the last few days by the Nittany Council to bring 24 girl orphans from St. Mary's Orphanage in Cresson and 24 boy orphans from St. John's

Orphanage, also in Cresson, to the Nittany area for a Christmas party on Sunday afternoon, Dec. 13.

The program for the day will begin by bringing the orphans, aged 6-11, to the Nittany Union Building around noon in University buses or via a car pool if the buses cannot be obtained.

After the orphans arrive, they will be given a tour around campus. After the tour they will return to the NUB where games will be organized for their benefit with the distribution of presents by Santa Claus. Movies may possibly be shown. Turkey dinners furnished by Ed Moran's catering services will then be served the orphans.

Following this, from approximately 4 to 5 p.m., each hall unit will take two orphans and entertain them for about an hour. The orphans will then return to Cresson.

Blair House of North Halls will also give a Christmas party for 40 orphans from the Williamsburg Home outside of Altoona on the afternoon of Dec. 15.

Through the help of the Altoona Chamber of Commerce, Blair House will hold a party from 3 to 6 p.m. for orphans, both boys and girls, ranging in age from 5 to 18.

When the orphans arrive they will be ushered into Blair House lounge where Christmas presents will be distributed by Santa Claus and games will be held. The orphans will then be taken to a Christmas dinner held in Warnock Hall.

Members of the Altoona Chamber of Commerce and commissioners from Blair County will attend the party.

University officials including President Eric A. Walker; Dr. Robert G. Bernreuter, special assistant to the president for student affairs; Frank J. Simes, dean of men, and Dorothy A. Lipp, dean of women, have been invited to attend both parties.

2 Ag Directors Named To Experimental Station

Two faculty members have been named to regional posts of the Agricultural Experiment Station section of the Association of Land Grant Colleges and State Universities.

Dr. M. A. Farrell, director of the Agricultural Experiment Station at the University, was named to the legislative subcommittee, and Dr. Alex Black, assistant director of the station, was named alternate on the Committee of Nine, both for the Northeast Region.

U.S. Steel Offers Jobs To Seniors

By RONA NATHANSON
Fourth of a Series

Do you want to "win" an all-expense paid trip to United States Steel?

If you're a job-hunting senior, interested in doing research work, and have had a successful campus interview with a U.S. Steel representative, you will be invited to the laboratories to discuss possible future employment.

The student who takes such a trip will be met for breakfast at his hotel by his prospective laboratory supervisor. He is then taken to the personnel office where he is given a 10-minute psychological test.

The greater part of the day is spent in meeting groups of laboratory workers doing different types of work. This gives the student a better idea of what he would like to do. From the discussions the student has with members of the various groups, the value he may have for the company may be better determined.

Before the student leaves he returns to the personnel office. There he is given a detailed summary of fringe benefits and such things as laboratory sponsored social activities. He then receives his trip's expense money.

The prospective employee should keep in mind that in order for him to receive an offer of employment he must express a sincere interest in the type of work he will be doing with the company.

U.S. Steel offers an opportunity to some students to continue their schooling. It is possible for a student to have time off from working hours to go to classes. Otherwise a student may work toward a higher degree by attending school in the evening.

Campus Activities

Irish U.N. Delegate To Speak Sunday

Secretarial School Offers Scholarship

Dr. C. Cruise O'Brien, counselor of the Department of Foreign Affairs for the government of Ireland, will speak at 4 p.m. tomorrow in the Hetzel Union assembly room.

O'Brien, a senior member of the Irish delegation to the United Nations General Assembly, will speak on "The United Nations General Assembly Today."

He will report on the current session of the General Assembly and some of the major problems which have been considered there.

Senior women in liberal arts may apply for a full tuition scholarship for one of the Berkeley Schools of Secretarial Training.

The scholarship will be worth \$775 and will be awarded for the 1960-61 term.

The winner may take her training at any of schools which are located in East Orange, N.J., White Plains, N.Y. and New York City.

Applications for the award may be filled out in 138 Sparks. They must be sent to the Berkeley School by March 12.

Festival Players Will Appear Today

Arnold Moss and the Shakespeare Festival Players will present "The Tempest" at 2:30 p.m. today and "Measure for Measure" at 8:30 tonight in Schwab Auditorium.

Five non-student tickets will be sold at the door at the matinee, and less than 10 will be sold tonight.

The next program of the Artists Series will be Art Hodes and his Dixieland Band, Sunday, Dec. 13.

Players to Hold Tryouts For 'Italian Straw Hat'

Tryouts will be held from 7 to 9 p.m. Monday and Tuesday for parts in "An Italian Straw Hat," which will open on Center Stage Feb. 12. Tryouts will be held in the Greenroom, Schwab Auditorium.

There are parts in this Players' production for nine men and five women. There are also smaller parts, according to the director, Frank Neusbaum.

The play is a 19th century French farce written by Eugene Labiche and Marc Michel. It is set in a light Parisian mood of song and gaiety.

Entre Nous Will Hold Open Meeting Tomorrow

Entre Nous, an organization for promotion of better race relations at the University, will hold an open meeting at 1:45 p.m. tomorrow in 217 and 218 Hetzel Union.

Members of the club will explain its purposes and discuss past and future projects.

Jr. IFC to Hear Report On SGA Clothing Drive

The Junior Interfraternity Council will meet at 7:30 p.m. Monday in the Hetzel Union assembly room.

The council will hear a report by Richard Reiter, chairman of the clothing drive committee, on the clothing drive which is being held this week by the Women's Student Government Association. The Junior IFC is collecting clothes from the fraternities in cooperation with WSGA.

Prof to Talk on Wagner

G. William Henninger, professor of music, will present the third in the series of programs devoted to the music of Richard Wagner from 7 to 11:30 p.m. tomorrow on WDFM's "The Third Programme." This week's subject will be Wagner's "Die Walkure."

SCIENTISTS AND ENGINEERS:

THE MEN BEHIND THE HEADLINES

NAA's On-Campus Interviews

December 8, 9



EARLY EVERY DAY you read of another advance in science... whether it's a space vehicle streaking toward Venus or a submarine gliding beneath the polar ice.

These are the events that make headlines... but even as they are announced to the world, engineers and scientists are planning new and greater achievements—and research shows them the way.

Scientific research always has had an important role at North American Aviation. Today, research projects are underway at more than 185 laboratories in the six North American divisions. They encompass the full scope of modern science.

Is air stiffer than steel?

Not all research has the headline appeal of a space ship or nuclear power. For example, research engineers at the Autonetics Division, which designs and manufactures space-age navigation systems, found new and different ways of building rotating bearings... and found that air is stiffer than steel for some purposes. Improved gyroscopes and magnetic recordings were important results of this research.

A cigarette's place in research

Even the ordinary cigarette has a role in scientific research. Scientists at the Aero-Space Laboratories, an organization within North American's Missile Division, use a burning cigarette in a still room to illustrate the difference between laminar flow and turbulence in the boundary layer, the very thin air space that lies along the outer skin of an aircraft or missile. This research is part of a program to find ways to protect missiles, satellites and space ships from burning when they re-enter the earth's atmosphere.

Toward the conquest of Space

The Rocketdyne Division has designed and built the bulk of today's operating hardware in the high-thrust rocket field. Explorer I, America's first satellite, was boosted into orbit by a Rocketdyne engine... and three-fourths of the power for Able IV-Atlas—man's first attempt to reach toward another planet—comes from liquid-propellant engines designed and built by Rocketdyne. Researchers at Rocketdyne delve into

the chemistry of propellants, the physics of engine components and what happens within them, ignition of fuels, combustion of fuels, and the transfer of heat.

2,000 mph manned weapon system

The Los Angeles Division is the home of next-generation manned weapon system, the Mach 3 B-70 Valkyrie strategic bomber, and America's first manned space vehicle, the X-15. Research engineers in this division investigate manufacturing techniques, conduct studies in aerodynamics, materials and processes, and thermodynamics. They also work with physiologists, biotechnologists, biophysicists, and psychologists to solve design problems concerning human capabilities and limitations that arise from modern weapons and research systems.

Building better Navy aircraft

Analysis of aircraft carrier operation is a major research project at the Columbus Division. This division designed and built the Navy's T2J Buckeye jet trainer and the Navy's supersonic, all-weather A3J Vigilante. Research activities are diverse here—from how to illuminate an aircraft cockpit to developing unmanned vehicles and systems to perform within the earth's atmosphere.

Developing the peaceful atom

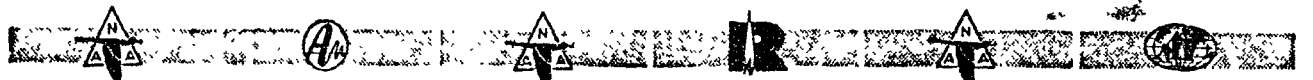
The work at the Atomics International Division of North American is part of a large national research effort aimed at the peaceful atom. Success in the development of economical power from the atom depends on thorough knowledge in every phase of atomic power systems and their materials of construction. Atomics International research reactors are in service in Japan, Denmark, West Germany, West Berlin, and Italy.

Opportunities for college graduates

Today at North American there is outstanding opportunity for young engineers who want to share the unusual creative problems that face science. You can rapidly build a sound engineering career by working on the top-level projects now underway. Visit your placement office where you'll find all the facts about a challenging and rewarding future with North American.

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