

## Summer Loans Now Available

Applications are now available for student loans for the 1960 summer sessions.

Applicants must have a 2.0 All-University average and must present evidence of financial need. Preference will be given to superior students who plan to teach in elementary or secondary public schools, also to those whose backgrounds indicate a superior capacity for preparation in science, mathematics, engineering or modern foreign languages.

The loans are not available to students acquiring credits towards a degree by studying only in summer sessions.

Applications should be completed before April 15 at the dean of women's office or the dean of men's office.

## Health Officials To Meet Here

Public officials representing cities, boroughs, counties and townships of central Pennsylvania will attend a conference on the operation of sanitary landfill to be held at the Extension Conference Center Saturday, April 2.

Taking part in the discussion will be Eldon Savage, sanitarian, United States Public Health Service; Thomas A. Ford, chief, Suburban Development Section, Division of Sanitation, Pennsylvania Department of Health; and Robert E. Raemore, regional sanitarian, Pennsylvania Department of Health.

A demonstration of the proper operation of sanitary landfill under actual conditions will be conducted at the refuse disposal site of the Borough of State College.

## Visiting Prof to Speak At Geophysics Meeting

Dr. Robert Woodtli, research associate in geophysics, will speak at a Geophysics Club meeting at 7.30 tonight in 214 HUB.

Woodtli will talk on "Experiences of a Geologist in the Belgian Congo."

## Msr. Costello to Speak On Family Responsibility

Monsignor Francis Costello of Wilkes-Barre will speak on the "Responsibilities of Raising a Family" in the third lecture of the Newman Club Marriage Forum Series.

The meeting will be held at 7 tonight in the Hetzel Union Building assembly room.

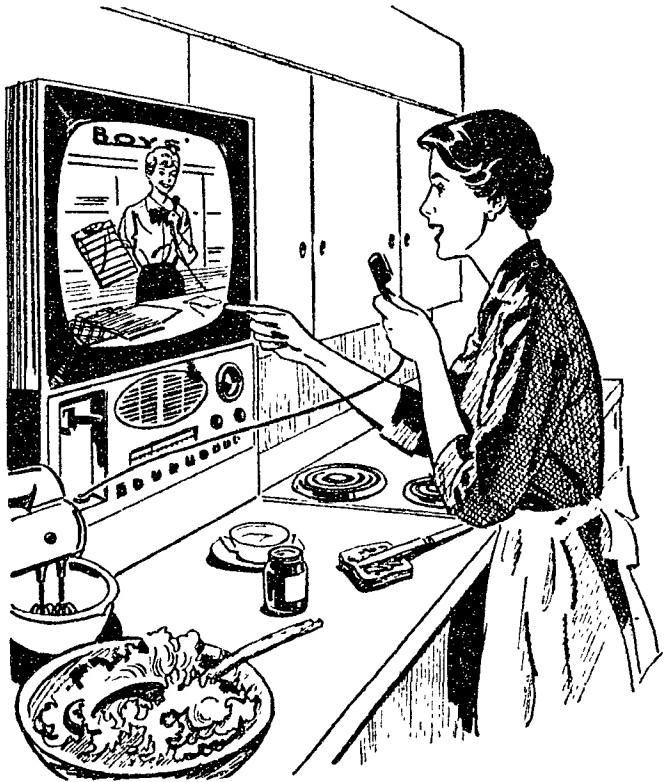
## Swift Invited to Set Up New Program at Maine

President Lloyd H. Elliot of the University of Maine has invited Dr. Raymond W. Swift, head of the Department of Animal Nutrition, to visit his university in order to set up an animal nutrition program.

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#### CIRCUIT ANALYSIS

A. PhD's in Physics or Electronics. To investigate specialized problems in system and circuit analysis and synthesis. Knowledge and interest in information theory, microwave theory and probability studies.

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#### MOLECULAR ELECTRONICS

A. PhD Physics. To conduct investigative studies on magnetic thin films and semi-conductor high frequency devices. Educational specialization in Solid State physics and interest in microwave resonance effects.

#### ACOUSTICS & UNDERWATER ACOUSTICS

A. PhD in Physics. To conduct analytical investigations in the field of acoustics involving electromechanical transducer design, dynamics of structures and properties of materials. Interest in conventional resonant transducers and coupling structures.

B. PhD in Electronics, Physics. To conduct fundamental studies in hydro-acoustics, in detection and classification. Interest in attenuation, transducers, magnetic fields.

#### OPERATIONAL ANALYSIS & RELIABILITY

A. MSEE, Physics or Math. PhD desirable. To work on evaluation of major electronic systems and to develop evaluation techniques. Knowledge of sampling techniques, statistical methods, semi-automatic data reduction and presentation. Educational emphasis on Operations Research.

B. BSEE with Advanced Degree in Math or Statistics. To carry out electronic equipment reliability studies by statistical analysis. Should be able to program IBM 650. Will serve as a consultant to product design engineers on modern computer methods in design analysis.

#### DIGITAL AREAS

A. MSEE. To conduct studies and perform advanced development work in areas of binary data transmission. Educational emphasis and interest in information theory, network analysis, transient analysis and servo systems.

B. MSEE with heavy math. To work on problems of analog to digital conversion. Background and interest in sampling techniques, differential amplifiers and reference voltage sources.

C. PhD in Physics or EE. To conduct research in Solid State digital techniques and serve in a consultant capacity to product design personnel.

#### COMMUNICATIONS

A. MSEE, PhD desirable. To conduct advanced studies in radio communications areas. Educational emphasis on Solid State circuitry, modulation and coding techniques.

B. PhD in EE or Mathematics. To conduct basic studies in communications, using all mediums, but with principal emphasis on water as a medium.

#### SYSTEMS PLANNING

A. MSEE, PhD desired. To examine, analyze and design new systems and products in the area of high density global and inter-global communications systems. Interest and preparation in areas of multiplex, microwave and high-frequency long-distance radio communications.

B. MSEE or MS Physics with PhD desirable. To analyze system requirements and conceive new approaches in areas covering real time, store and forward message switching systems. Educational emphasis in transistors, diodes, magnetic core, logic and millimicrosecond pulse techniques.

C. MSEE, Physics or Math. To examine and analyze new system configurations for sophisticated military global and inter-global communications systems. Heavy math or statistics required for calculation of trunking requirements on new systems.

#### PROPERTIES OF MATERIALS

A. PhD in Physics or Doctorate, Science. To conduct investigative analyses in the utilization of new materials in transducers or speakers. Special emphasis on plastics and plastic coatings would be helpful.

## PROFESSIONAL INTERVIEWS at PENN STATE

THURSDAY, APRIL 7

Make arrangements with your Placement Office now to see the Stromberg-Carlson representative, Or write for brochure to Charles E. Evans.

## STROMBERG-CARLSON

A DIVISION OF GENERAL DYNAMICS

1450 N. Goodman St., Rochester 3, New York