Grant given to Dr. Frocht for stress analysis research

A \$4,000 research grant has been awarded to Dr. Max M. Frocht, A \$4,000 research grant has been awarded to Dr. Max M. Frocin, research professor of mechanics, by the Research corporation, New York, for fundamental study in three dimensional photoelastic stress analysis. Dr. Frocht's job will be to extend the scope of photoelasticity to general problems and to improve the

method for symmetrical prob-lems. It will include a study of fundamental principles, perfecting methods and techniques, and an application to practical problems.

Photoelasticity is an experimental method of determining stress by applying loads to transparent models of real objects in a polariscope and analyzing quantitatively the pattern produced by the interaction of the polarized light with the model.

Until recently photoelastic-ity has been confined mainly to two dimensions, the stress in depth assumed to be constant. In three-dimensional work, studies have been limited to symmetrical objects.

The study today rests, in the main, on the ability to permanently freeze or fix a pattern into a ma-terial after the loads have been removed. Progress in three-dimensional photoelasticity has been accelerated by the develop-ment of "Fosterite" a material of greater stability than previous materials.

Sam Levin wins naval appointment

Sam Levin, ME 6, has received an appointment to the U. S. Naval academy. He won the appointment on the basis of a competitive examination for the Chicago Corressional district. Levin will enter the academy as a freshman.

Levin, 20 years old, is a member of Tau Epsilon Phi fraternity, ASME and the 1950 Junior Week committee

Slipstick artists foil buralar

Two Illinois Tech students took a time out from studies Sunday night to capture a burglar.

Leonard Carlman and Charles Lindgren, CE's, were studying in their apartment at 48 N. Lockwood, their apartment at 48 N. Lockwood, when they heard noises upstairs. Investigating, they found Sam Cohen, 61, of 22 N. Halsted, looting a bedroom. Carlman and Lindgren subdued the burglar and after a short scuffe in which Carlman was cut slightly by Cohen's knife.

Two men named to publications board positions

The appointment of two new members to the Publications board were approved by ITSA March 1. Marks Levy and Evert Saxe were selected after screening and interviews to determine their ability and experience.

Levy has written sports for Technology News and the Integral for three semesters, while Saxe has edited the Farr Crier, dormi-tory newspaper. The Publications has edited the raff Crief, dormi-tory newspaper. The Publications board appoints the editors of the four student publications and as-sists the publications in any major problems which may arise. Its job is to hear all complaints on the publications and to make suggestions to the right people to correct the situation on which there has been a complaint.

Institute of Design will exhibit work

A 45-panel exhibition of the work done at the Institute of Design will be shown March 8-19 at the University of British Columbia, Vancouver, B. C.

The exhibit is being sent through the United States and Canada un-der the auspices of the American

Federation of Arts.

"Learning Through Doing" is the theme of the exhibition which includes 125 photographs and accompanying tex-tual material explaining the Institute of Design's develop-ment since its founding in

1937.

The exhibit graphically explains the foundation course which all students must take before specializing, as well as the Institute's edu-cational principles and plan of courses in related design fields.

Industry, faculty to be featured in chem confabs

The Illinois Tech chapter of the American Chemical Society has ar-ranged a series of talks to be given ranged a series of talks to be given during its regular business meetings. These informative lectures, the first of which was presented at the last meeting by Francis Hayes, assistant professor of chemistry, are being delivered by professors and prominent men in industrial research positions.

dustrial research positions.

G. Harvey Benham, associate professor of biochemistry, will be the featured speaker at the next meeting which is to be held on Thursday at 1 p.m. in the Chemistry

day at I p.m. in the Chemistry auditoriem. His topic will be "Frontiers in Biochemistry." Membership, in the society is open to all stidents registered in Chemistry, Chemical Engineering, or Metallurgical Engineering, Further information may be obtained from the officers of the organiza-tion or from Dr. Eugene Lieber, chapter advisor.

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ARF research extends beyond national borders

Armour Research Foundation's operations, including not only domestic but foreign operations. Standing out among its foreign projects is the "El Plan Armour," begun seven years ago and successfully operating ever since.

This plan has given technological assistance which enables nations assistance which as those in Latin America, to import U. S. technology with a minimum depletion of dollar re-

minimum depletion of dollar reserves.

The latest step in the plan was the construction of a new laboratory building in Mexico City (pictured above). This modern struce, o.c. cu pying 1,500 square feet, was built by the Banco de Mexico, S.A. It is run by the Armour Research Foundation in the interests of Mexican technological development, giving Mexican technologi logical development, giving Mexi-can enterprises the same level of scientific aid that is enjoyed by industries in the United States.

The "El Plan Armour" was brought to Mexico in 1944 at the

brought to Mexico in 1944 at the request and sponsorship of the Banco de Mexico. Its first step was a nation-wide technological audit conducted by U. S. and Mexi-can scientists. ARF sent a care-fully selected group of its staff who made their homes in Mexico and did

It is highly probable that few people realize the scope of the

everything possible to absorb a keen understanding of the prob-

Then, upon specific recommendation by this group, laboratory research and developmental projects were started, some of these including the industrialization of eascolate tannin, the domestic extraction of quinine, improved methods for the production of oils for leather treatment and finish-ing and the development of tortilla flour.

As these technological problems were successfully solved, private Mexican industrial firms began posing a steady stream of research problems on glass, textiles, vita-mins, corn products, and other items. Both the sponsoring agency and the Foundation's international division work together closely during the progress of any technical program to guide the work into the most effective channels.

The Foundation is continually helping Mexico develop its own technical facilities. At the same tree Mexican engineers are being brought to the United States for additional training.

ARF conducts such programs as "El Plan Armour" on a non-profit basis. In addition, special arrangements are made to reduce operating costs and conserve dollar requirements by accepting a considerable percentage of domestic currency from countries facing a shortage of dollars.

Thus the Foundation's cooperative and economical method of attacking difficult research problems is furthering technological advance in international industry.

Classified Ads

WANTED—old (1925-40) electric trains, 0 gauge, Lionel, Amer. Flyer, Ives, in any condition. Don't let old ones rust away in basement or attic. Drop list of stuff and price wanted in Tech News office.

ADMIRAL PHONO-RADIO — Walnut console \$50.00; pair new blond end tables. GR. 6-1452.

FOR SALE—2 new Supercushion tires, 6.70-15; unused, \$25.00. Call after six—VA, 6-5010.

LOST: Text book, "Administrative Law," by Walter Gellhorn. Return to Ira Rakley, VI. 2-8734.

APT. TO SHARE—Male student will share 3 room apartment, south. Call Dave Westbrook, SOuth Shore 8-1010.

LOST—Pair brown leather fur-lined gloves. Reward. Please return Elaine Krause. EUclid 6-8649.

FOR SALE—9 x 20 green Clearflax rug with Ozite pad. Used one year Cleaned and in perfect condition. TRiangle 4-4904 evenings.



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