RAMO-WOOLDRIDGE
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ADVANCED DEGREE CANDIDATES
IN
ELECTRICAL ENGINEERING
PHYSICS
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to discuss with members of our technical staff professional research and development opportunities in the following general fields:

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DIGITAL COMPUTERS
AND CONTROL SYSTEMS
ELECTRONIC INSTRUMENTATION
AND TEST EQUIPMENT
TRANSLATION
BASIC ELECTRONIC RESEARCH NUCLER ENERGY
APPLICATIONS

Appointments on Monday and Tuesday, December 12, can be arranged through the Student Placement Center.

RAMO-WOOLDRIDGE
P. O. Box 9034, Airport Station
Los Angeles 46, California
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Study of Architectural Potential Of Plastic Sandwich Panels Made

A three-year study of the architectural potential of lightweight plastic sandwich panels has been completed at MIT in the form of a 110-page booklet by the Department of Architecture and Civil Engineering. Marvin E. Grody and Bernard F. Stoving, assistant professors of architecture, were chiefly responsible for the report.

Believing to be the most comprehensive report on the subject ever made, the publication was sponsored by the Monsanto Chemical Company, Plastics Division. Roen a lack of information on plastic structural sandwich panels, the report begins with a review of the history of plastic sandwich panels, their design and fabrication, and their success or failure amid the automobile and building industries.

The report is concerned exclusively with laminated panels consisting of three or more adhesively bonded layers. A laminated panel is a composite structure which acts as a unit, as compared to a panel which has been fastened mechanically. The report points out the fundamental differences between the two, and indicates that laminated construction shows greater promise in the development of lightweight panels capable of taking major building loads.

Advantages

Professors Grody, Grody, and Stoving, helps create the preliminary design for the Monsanto "House of the Future" at Disneyland. Plastic sandwich panels, he explained, have the following characteristics: (1) panels can be formed into complex shapes of suitable curvature; (2) plastic panels have the ability to perform major structural jobs and yet remain transparent or translucent; (3) a durable wearing surface and integral color can be built right into the material; (4) several methods of wetting panels are available; (5) plastic structural panels have high strength-to-weight ratios compared with structural materials. Combining structural, wearing surfaces, and function, they eliminate the need for glazing or separate layers of materials to accomplish these jobs. The report discusses structural assemblies, material technology, fabrication methods, handling operations, erection techniques, environmental control, distribution, marketing, and design.

Number Receiving NSF Fellowships Doubled This Year

Twice as many National Science Foundation Fellowships will be awarded this year as compared to last year. The increase is provided through the addition of Cooperative Fellowships to the Doctoral Fellowship Plan. Applications for both categories of fellowship must be submitted by January 5.

Survey Completed of Liberal Arts' Place In Engineer's Future

A general opinion of long standing is that engineering colleges do not offer enough liberal arts instruction and that the students prefer it. engineering Education (ASEE) has recently recommended that one-fifth of the undergraduate engineering curriculum be devoted to humanities and social sciences. Recent graduates stressed training in the basic sciences. Thus the report suggests that the need for engineers who can speak and write in clear, concise English is felt by most of the engineering profession.

Public Service Electric & Gas Co., Newark 1, N. J.