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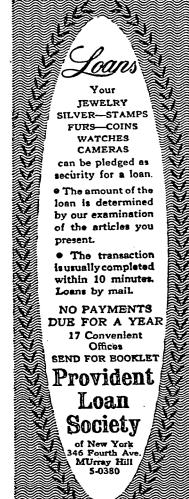
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NEW NAVY DEVICE LEARNS BY DOING

Psychologist Shows Embryo of Computer Designed to Read and Grow Wiser

WASHINGTON, July 7 (UPI) -The Navy revealed the embryo of an electronic computer today that it expects will be able to walk, talk, see, write, reproduce itself and be conscious of its existence.

The embryo—the Weather Bureau's \$2,000,000 "704" computer—learned to differentiate between right and left after fifty aftempts in the Navy's demonstration for newsmen.,

The service said it would use this principle to build the first of its Perceptron thinking machines that will be able to read and write. It is expected to be finished in about a year at a cost of \$100,000.

Dr. Frank Rosenblatt, designer of the Perceptron, conducted the demonstration. He said the machine would be the first device to think as the human brain. As do human beings, Perceptron will make mis-takes at first, but will grow wiser as it gains experience, he

Dr. Rosenblatt, a research psychologist at the Cornell Aeronautical Laboratory, Buffalo, said Perceptrons might be fired to the planets as mechanical space explorers.

Without Human Controls

The Navy said the perceptron would be the first non-living mechanism "capable of receiving, recognizing and identifying its surroundings without any

human training or control."

The "brain" is designed to remember images and information it has perceived itself. Ordinary computers remember only what is fed into them on punch cards or magnetic tape.

Later Perceptrons will be able

to recognize people and call out their names and instantly trans-late speech in one language to speech or writing in language, it was predicted.

Mr. Rosenblatt said in principle it would be possible to build brains that could repro-

duce themselves on an assembly line and which would be conscious of their existence.
In today's demonstration, the was fed two cards, one with squares marked on the left side and the other with squares

on the right side. Learns by Doing

In the first fifty trials, the machine made no distinction between them. It then started registering a "Q" for the left squares and "O" for the right

Dr. Rosenblatt said he could explain why the machine learned only in highly technical erms. But he said the computer had undergone a "self-induced change in the wiring diagram." The first Perceptron will have about 1,000 electronic # 'association cells' receiving electrical impulses from an eyelike scanning device with 400 photo-cells. The human brain has 10,000,000,000 responsive cells, including 100,000,000 con-

Books Today

nections with the eyes.

A BATON FOR THE CONDUCTOR, by T. L. W. Hubbard (Houghton Mifflin, \$3). A humorous novel CHRISTIAN SCIENCE: Its Encounter With American Culture, by Robert Peel (Holt, \$4). FROM CHICKENS TO PROSPECTING by Oscar (Shorty) Daloian (Vantage, \$2.95). Personal ex-

periences in the West. LETTERS TO MY GOD, by Dagobert D. Runes (Philosophical Library, \$2).

QUEEN MIDAS, by Joseph F. Dinneen (Little, Brown, \$3.75). Novel about Irish immigrants in America.

SPACE FLIGHT: Satellites, Space-ships, Space Stations and Space Travel Explained, by Carsbie 5 Now and then: C. Adams, with the collaboration of Frederick I. Ordway 3d. 10 Social prohibi-Heyward E. Canney Jr. and tion. Ronald C. Wakeford (McGraw-14 Author of "Battle Hill, \$6.50).

S. S. SILVERSPRAY, by John Langdon (Macmillan, \$3.95). Novel about the crew of a merchant 16 Midmonth in marine freighter. THE AMARYLLIS MANUAL, by 17 Palm with

Hamilton P. Traub, drawings by Allianora Rosse (Macmillan, 18 Place for a hard \$7.50). Gardening guide. 20 Combat group THE NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE: A Case Study in Pressure Groups, by Warren D. St. James (Exposition, \$4).

THE SOVIET CULTURAL SCENE, 28 Object of great 1956-57, edited by Walter Z. devotion.

Laqueur and George Lichtheim 30 Sausage: Ger.

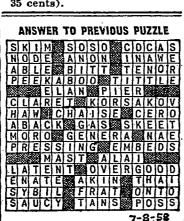
(Praeger, \$3.75).

PAPER-BOUND ORIGINALS. Fiction: 35 Presidential PAPER-BOUND ORIGINALS, Fiction:

MURDER ISN'T FUNNY, by J.

Harvey Bond, and The Deadly
COMBO, by John Farr (Ace
Double Novel Books, 35 cents);
THE DANCE MERCHANTS, by J.
Walter Small (Ace Book, 35
cents). Miscellany: Great FlyING STORIES, edited by Frank
W. Anderson Jr., U. S. A. F.,
introduction by Col. Andrew F.
Gordon, U. S. A. F. (Dell Book, 35
cents).

35 cents). REPRINTS. Fiction: A PLANET FOR TEXANS, by H. Beam Piper and John J. McGuire, and STAR BORN, by Andre Norton; OUTLAWS WELCOME, by William Vance, and THUNDER CREEK RANGE, by Raul Evan (Ace Double Novel Books, 35 cents each); THE IRON KING, by Maurice Druon (Ace Books,



7-8-58

Books of The Times

By CHARLES POORE

f this were an entirely accurate account of my life in Cork," the author of "Mrs. O'" tells us, "I should probably be writing it behind bars. So I should say that it is impressionistically true when not always factually so." Fair enough. However, when you have

finished her entertaining book, you may want to go back to that preface and wonder whether the bit about behind bars is a pun or an Irish bull. Why? Because she ran a pub in Cork. The

idea of doing so came to her in London one afternoon when she found herself rather rich and completely free. "My decree absolute came through on the same day as my Great Aunt's legacy-not a fortune, but such a sum as I had never dreamed of owning or saving." The fact that she happened to choose for refreshment a place called Mooney's, in London, gave the notion a proper touch of predestination.

Once in Ireland she made forays around the country. It did not take her very long to find the pub she wanted in Cork and buy it from a maiden lady who did not appreciate its seedy elegance. What names she signed to the deed we do not know, although this book is copyrighted by C. M. Forde. As author of it she calls herself, with royal simplicity, Claude, just Claude.

Named by Irish' Friends

It was her Irish friends and customers who gave her the name of Mrs. O'. A reference to herself, near the end of the book, as one who holds in reserve "the resignation to the inevitable that lingers in the blood of those born in fatalistic East," marks the beginning of a cosmopolitan outlook,

A beau sabreur named Sean soon spotted her as French in spite of a quickly acquired talent for Gaelic. And Claude tells us she has "drunk rye with Americans, schnapps with Dutchmen, beer with Germans, wine with Frenchmen, liqueurs with duchesses and gin with charladies." The charladies and the duchesses, presumably, carry international passports.

The problems of running a pub in Cork were often hilarious, seldom businesslike and sometimes tragic. The gamut of life she saw was as various as the life you will encounter on Manhattan Island if you follow Park Avenue down from the street fairs near 125th Street to the local Mayfair within a mile of the Grand Central Terminal.

She liked the Irish and the Irish liked her. They brought her their problems and she shared their celebrations. If she was appalled by poverty and superstition she admired the. prevalence of gaiety and wit. Once, on the way to a picnic, she asked a gentleman why, since he intended to stop, without favoritism, at every pub on their route, he had brought along a flagon of whisky.

"You must guard your supply lines," he answered. "If you had read your von Clause-

National

By ROBERT

TRAVER

\$4.50 at

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pezt Jener

ANATOMY

MURDER

ST MARTIN S PRESS

*MRS. O'. By Claude. 191 pages. Rinehart. \$3.50. the most surprising cork in Cork.

Fort Transfer Approved
WASHINGTON, July 7.(UPI)

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Fifty-fifty

36 Boa constrictor.

Taken on. Crystal gazer

radio. 49 Combining form

in chemistry.

46 Signatures, in

Live coal.

53 Kind of pony. 54 Bullets, shells, etc.: Slang. 56 Tasteful.

fixed point. 58 Dial —. 60 Vegetable.

Twist about a

52 Beat it!

candy.

chance.

37 — beer. 39 Johnnycake.

13 Consumer.

to go

detective's genius.

CROSSWORD PUZZLE

Edited by MARGARET FARRAR

45 Head: Fr.

48 British gun.

52 Ten pins on two

59 Lucy and Desi, for one.

63 Inclined from the

perpendicular: Naut.

61 Relative of a

machete.

Captured.

66 Specks of dust. 67 VIP of Seoul.

1 Flat-bottomed

2 Opera feature. 3 All talk, no

burgh."

Remainder.

7 Ring on an oil

January 21. 9 Turf.

5 Heart

8 Saint of

4 Japanese "Pitts-

DOWN

62 --- mater.

64 Vingt- -

boat.

47 Quiet!

50 Page.

55 Deepest

passed and sent to the White use by the National Guard.



Claude, author of "Mrs. O'."

witz with any attention, you would think of the long arid stretches with no hostelries." Early on, as proprietor of her own pub, she had learned to tap a mighty keg of high stout, after just one lesson from a friendly

rival called Foxy: "Wrapping the barrel end of the tap in three thicknesses of newspaper as I had seen Foxy do, I placed the tap against the bung, raised the mallet, and thinking briefly that I should probably be the first foreigner ever to be killed by Guinness, I hit the tap two fairly light, quick blows."

Mallet's Force Augmented

It worked fine. The third whack was delivered at full strength. The tap went into place, the newspaper sealed the crack around it. One thing she was too shy to mention when congratulations, offered in awe, saluted her, was that she had, shall we say, augmented the force of the mallet with a huge horseshoe she had discovered under the bar.

A rather formally informal romance flowers in the book. It concerns Sean, whose past is a subject for gossip, and whose present is a matter of mystery. He is destined for tragedy. When he meets it, as no reader can doubt he will, Ireland loses magic for

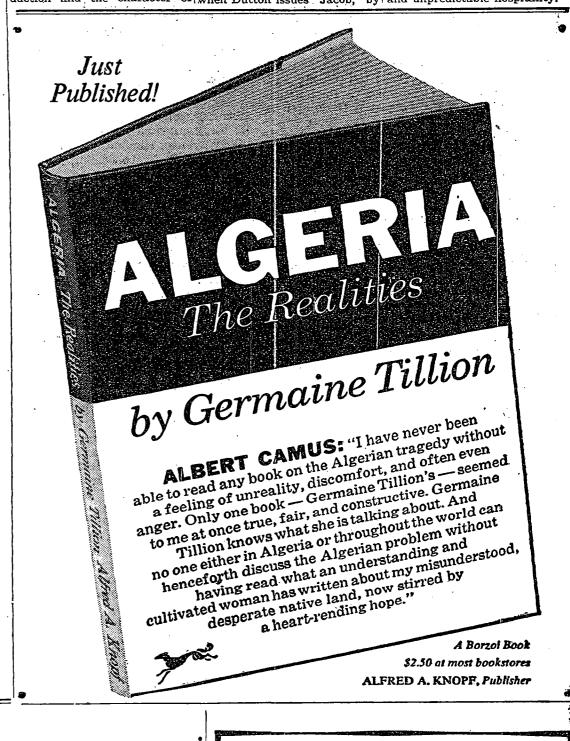
Then there is Phelan, the ambitious burglar. He is a genial sort. But he never owns up to his limitations. In defiance of the best advice he attempts robberies that are beyond the scope of his abilities. The result is that he is often in court, sometimes in jail. The problem of Phelan is solved more happily than the problems of several other leading characters in the book.

He accepts security at the price of unattainable success as a burglar. Mrs. O' persuades a meeting of the directors of a brewery to give him a job as a guard. They are skeptical, but Mrs. O' is right. Either through vigilance or his connections with the underworld, Phelan stops thievery on the brewery premises. In his way, he becomes

A month before Joyce Cary's death last year the complete manuscript of his new book "Art and Reality" arrived at Harper's, his publisher. It is based in part on lectures prepared for delivery at Clare College, Cambridge. Mr. Cary depared for delivery at Clare College, Cambridge. Mr. Cary described the book as "an attempt to examine the relation of the artist with the world as it seems to him and to see what he does with it." He examines the nature of intuition and cruelty. He is the subject of a historical novel, "The Sword of Pleasure," by Peter Green, which World will issue Aug. 27. The story will be the first by the young English historical novel by Michael Noonan, is planned for November publication by John Day. It is the novelist to be published in this story of a year in the life of a motherless boy. The young ster lives in a respectable village with his roistering tugboat-

Books—Authors originality in art. The book Jean Cabriès. Translated from will be published Aug. 6. the French by Gerard Hopkins. the French by Gerard Hopkins,

truth in art, the difficulties of translating intuition into production and the character of when Dutton issues "Jacob," by and unpredictable hospitality.



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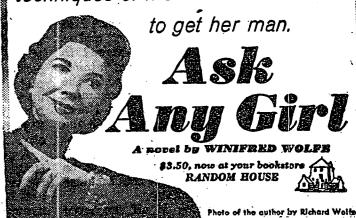
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