

15¢

MARCH 18, 1950

SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Top Young Scientists

See Page 163

A SCIENCE SERVICE PUBLICATION

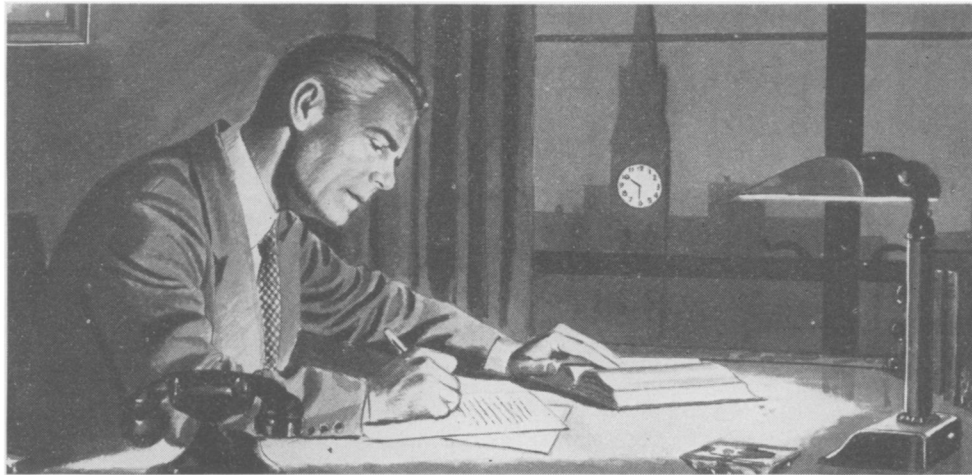
\$5.50 A YEAR

VOL. 57 NO. 11 PAGES 161-176

THE PRICE OF SUCCESS

What is it that brings one man success in life, and mediocrity of failure to his brother? It can't be mental capacity. There is not the difference in our mentalities that is indicated by the difference in performance.

The answer is, some men succeed because they cheerfully pay the price of success while others, though they claim ambition and a desire to succeed, are unwilling to pay that price.



THE PRICE OF SUCCESS IS—

To use all your courage to force yourself to concentrate on the problem in hand; to think of it deeply and constantly; to study it from all angles, and to plan ahead.

To have a high and sustained determination to achieve what you plan to accomplish, not only when conditions are favorable to its accomplishment, but in spite of all adverse circumstances which may arise.

To refuse to believe that there are any circumstances sufficiently strong to defeat you in the accomplishment of your purpose.

Hard? Of course. That's why so many men never reach for success, yield instead to the siren call of the rut and remain on the beaten paths that are for beaten men. Nothing of note has ever been achieved without constant endeavor, some pain and ceaseless application of the lash of ambition.

That's the price of success. Every man should ask himself: *Am I willing to endure the pain of this struggle for the rewards and the glory that go with achievement? Or shall I accept the uneasy and inadequate contentment that comes with mediocrity?*

If you are willing to pay the price of success, the Alexander Hamilton Institute can help you chart your course and supply the knowledge of business fundamentals that is necessary for well-rounded executive competence.

Since 1909 more than 450,000 men have benefited by the Institute's Modern Business Course and Service, including many of the nation's foremost businessmen and industrialists.



The Alexander Hamilton Institute's story is summed up in a 64-page booklet—"FORGING AHEAD IN BUSINESS." A copy is offered, without cost, to anyone who is interested. Every business head and ambitious employee within his organization will want to read it. Simply send in the coupon below.

ALEXANDER HAMILTON INSTITUTE
Dept. 715, 71 West 23rd Street New York 10, N. Y.
In Canada: 54 Wellington Street, West, Toronto 1, Ont.

ALEXANDER HAMILTON INSTITUTE
Dept. 715, 71 West 23rd Street, New York 10, N. Y.
In Canada: 54 Wellington Street, West, Toronto 1, Ont.

Please mail me, without cost, a copy of the 64-page book—"FORGING AHEAD IN BUSINESS."

Name.....
Firm Name.....
Business Address.....
Position.....
Home Address.....

Special Pre-Publication Offer!

Pocket Encyclopedia Of **ATOMIC ENERGY**

By FRANK GAYNOR

THE PURPOSE of this book is to present a comprehensive collection of brief explanations and definitions of concepts and terms in the field of Nuclear Physics and Atomic Energy to the scholar, researcher, teacher, librarian, student and intelligent layman.

Also included are thumbnail biographical sketches of outstanding nuclear physicists and chemists—in itself a pocket WHO'S WHO of atomic science. Another supplementary feature is the listing of German equivalents for a great many of the terms discussed.

Over two thousand entries, with numerous charts, tables and illustrations.

“The book is well planned, well executed, and it reveals a profound knowledge of the subject covered. It is a *must* for every physicist as well as every intelligent layman interested in atomic science.”—*Dr. Sydney Baruch, Consulting Engineer of the Special Weapons Division, U. S. Air Force; Inventor of the anti-submarine depth bomb.*

MAJOR ENTRIES

alpha particle
americium
astatine
atomic bomb
atomic structure
Atomic Energy Commission
beta particle
binding energy
chain reaction
cosmic rays
curium
cyclotron
electron
electron structure of atoms
francium
gamma ray
Geiger-Müller counter
Geiger-Nuttall law
H-Bomb
heavy water
ionization
isotope
meson

moderator
neptunium
neutron
neutron-proton ratio
nuclear energy and
nuclear energy plant
nuclear fission
nuclear forces
nuclear reactions
nucleus
packing fraction
periodic table
plutonium
positron
promethium
protactinium
proton
proton synchrotron
radiation survey meters
radioactive families
radioactivity
radioisotope
radon

radium
reactor (atomic pile)
relativity theory
Rutherford-Bohr atom model
separation of uranium isotopes
solar energy
stability of nuclear structure
sub-atomic particles
electron shells and subshells
symbols and notations of nuclear
physics and chemistry
synchro-cyclotron
synchrotron
technetium
thallium
thorium
tracers and tracer technique
transuranic elements
uncertainty principle
uranium
uranium fission
uranium ores
valence

Regular Price \$7.50

Publication date is

MAY 31, 1950

If you send in your order before
this date you can get your copy
for

ONLY \$6.00

-----SPECIAL ORDER COUPON-----

PHILOSOPHICAL LIBRARY, *Publishers*
15 East 40th St., Dept. 35, New York 16, N. Y.

Enclosed is \$_____ for _____ copy(ies) of THE
POCKET ENCYCLOPEDIA OF ATOMIC ENERGY, at the
special Pre-Publication price of \$6.00 per copy. The book(s)
to be mailed to me immediately upon publication.

NAME _____

ADDRESS _____

(Expedite shipment by enclosing remittance.)