

Integers from 1- 99; first 30 powers.

Integers from 1-120; powers 30, 40, and 50.

In addition, at least the first twenty-one digits are given of all the first 50 powers of the integers from 1-120. The duplications in my description of the table do not occur in the table itself. For instance, the first twelve powers of the integers 1-99 only occur once, in spite of the fact that they occur in four of the categories listed above. Also the first twenty-one digits are tabulated only for those powers which are not given in full. Considering the awkward sizes of

many of the powers, slight deviations from the natural ordering are necessary for economy of space. However, the arrangement chosen is quite uniform, and if the user will take the trouble to go through the table once with some care, he will catch onto the system used, and will find that he can then locate entries easily.

A useful list of other particularly extensive tables of powers is given with descriptions and lists of errors.

BARKLEY ROSSER

CORNELL UNIVERSITY

SOCIETIES AND MEETINGS

THE ALABAMA ACADEMY OF SCIENCE

UPON invitation of Spring Hill College, the Alabama Academy of Science held its eighteenth annual meeting in Mobile, Ala., March 21-22, 1941, with the president of the academy, C. M. Farmer, presiding. The Southern Association for the Advancement of Science met at the same time, as the guest of the academy. An address of welcome was made by Father Wm. D. O'Leary, president of Spring Hill College. The Junior Academy was in session simultaneously at the Murphy High School, with over two hundred delegates in attendance representing twenty-five high schools. One of the features of the meeting was a series of exhibits put on jointly by the junior and senior academies under the auspices of C. M. Pomerat, *chairman*, Department of Biology, University.

The executive and business meetings were held on Friday, and the scientific papers were presented on Friday afternoon and Saturday morning in seven sections, the vice-presidents of the academy serving as chairmen of their respective sections. They were as follows: H. D. Jones, Biology and Medical Science, Alabama Polytechnic Institute, Auburn; L. M. Hobbs, Chemistry, University of Alabama, University; D. L. DeJarnette, Geology, Anthropology and Archeology, Alabama Museum of Natural History, University; J. Allen Tower, Geography, Conservation and Allied Subjects, Birmingham-Southern College, Birmingham; W. A. Moore, Physics and Mathematics, Birmingham-Southern College, Birmingham; C. A. Bassore, Industry and Economics, Alabama Polytechnic Institute, Auburn; Clustie Evelyn McTyeire, Teaching of Science, Hueytown High School, Bessemer.

At the annual banquet held at the Admiral Semmes Hotel on Friday evening, Father Anthony J. Westland, S.J., served as toastmaster. The address of welcome was by Mayor Cecil F. Bates, Mobile, with response by Septima C. Smith, University. Several musical numbers were rendered by the Jadek String Quartette. President Farmer's address was on the

timely subject, "Science Education." Guests of the occasion were visitors to the Southern Association for the Advancement of Science, which was organized at this time.

Spring Hill College was host to the academy for a very lovely buffet luncheon at College Inn on the campus Saturday at noon.

One of the features of Saturday was the Geology Field Trip arranged by Winnie McGlamery and D. L. DeJarnette, to the marine outcrop of Pleistocene on Mon Louis Island. Saturday afternoon was devoted to motor trips along the Azalea Trail and the beautiful Bellingrath Gardens, and to various industrial centers of Mobile.

The academy award from the American Association for the Advancement of Science for 1941 was divided between Herman D. Jones, Alabama Polytechnic Institute, for his subject, "To Study the Distribution of Arsenic in the Body Following the Use of Water in which Smoke from Cigarettes has been passed through," and W. F. Abererombie, Howard College, for his study on "The Effects of Various Chemicals on the Cockroach."

New officers for 1941-42 were elected as follows: *President*, Paul D. Bales, Howard College, Birmingham; *President-elect*, W. M. Mobley, Alabama By-Products Company, Tarrant; *Vice-Presidents* and *Section Chairmen*—Alvin V. Beatty, Biology and Medical Science, University; Harold E. Wilcox, Chemistry, Howard College; E. F. Richards, Geology and Anthropology, University; Brooks Toler, Geography, Conservation and Allied Subjects, Division of Forestry, Montgomery; W. A. Moore, Physics and Mathematics, Birmingham-Southern College, Birmingham; John Goff, Industry and Economics, Alabama Polytechnic Institute, Auburn; Clustie E. McTyeire, The Teaching of Science, Hueytown High School, Bessemer. Septima C. Smith, Biology Department, University, was chosen as councilor to the American Association for the Advancement of Science. John Xan, Howard College, was re-elected treasurer. E. V.

Jones, Birmingham-Southern College, continues for another year as editor of the *Journal*; and Winnie McGlamery, Alabama Geological Survey, as secretary, for two more years. R. M. Harper, Alabama Geological Survey, continues in office as academy statistician. The three new committees for promoting the interests of the academy appointed the previous year have the following officers: Committee on Promoting Membership and Activities, E. D. Emigh, *chairman*, Weather Bureau, Montgomery; Committee on Research, S. J. Lloyd, *chairman*, Dean School of Chemistry, University; Committee on Publication, E. B. Carmichael, *chairman*, Medical School, University, with the editor as an *ex-officio* member.

WINNIE MCGLAMERY,
Secretary

THE MARYLAND ACADEMY OF SCIENCES

THAT the advancement in the social control and the direction of man's affairs has not kept pace with the conquest of natural phenomena and the application of scientific knowledge to the improvement of the physical conditions of living is an old story.

In this regard many scientists and scientific institutions are becoming conscious that science has a responsibility that extends beyond the production of new knowledge. This responsibility involves the interpretation of science to the citizen not alone for the sake of science, but more to widen mental horizons of the citizen and to develop to some extent an acceptance and willingness to control judgments and actions by scientific criteria. The ideals of scientific inquiry such as tolerance toward the opinion of others, dependence upon verifiable facts, suspended judgment in the face of insufficient evidence, etc., are closely akin to the ideals of a democratic society.

It is rather usual for scientific societies and academies of science to honor individuals for their research contributions in the advancement of science. It is somewhat less usual, if not unique, to pay tribute to scientists for their contribution to the extension of human enlightenment in the field of general education of the lay public.

Such tribute was paid at the annual meeting of the Maryland Academy of Sciences in Baltimore when, for the first time, Professional Fellowships were

awarded to the following persons: Louise Kelley, Ph.D., professor of chemistry, Goucher College; Carroll F. Merriam, engineer, Pennsylvania Water and Power Company; Reginald V. Truitt, Ph.D., professor of zoology, University of Maryland; Robert W. Wood, Ph.D., professor of experimental physics, The Johns Hopkins University.

The citation states that honor was conferred "in recognition of participation in a program dedicated to the extension of human enlightenment through general understanding of the facts and methods of science. This participation is evidence that the recipient accepts the responsibility of applying the values of science to widening the horizon of human understanding." Specifically, this award was extended to Mr. Merriam for his creation and preparation for the last three years of the Maryland Academy of Sciences' Graphic Time Table of the Heavens which has received extensive distribution through the Academy in Baltimore and The Franklin Institute in Philadelphia; and which was published this year as a feature of the astronomical magazine, *The Sky*. The other three scientists mentioned were honored because of their service weekly for twenty-nine weeks on the radio program, "Quiz the Scientist," sponsored by the Maryland Academy of Sciences. This program answered some 150 of the 1,000 questions sent in by people of the radio public in all walks of life.

In addition to Drs. Kelley, Truitt, Wood and Page of the regular quiz board, each week a guest scientist from education or industry was invited to join the board in order to answer questions along the line of his specialty. Our list of guests is much too extensive to be repeated here, but it is very significant that leaders in science, medicine and industrial research were sufficiently convinced of the value of the program to contribute their time.

The final broadcast of "Quiz the Scientist" for this season from the Belvedere Hotel was made the central feature of the annual meeting of the Academy for 1941 and about 500 interested persons attended. "Quiz the Scientist" will be resumed in the fall.

J. WALLACE PAGE, JR.,
Director

MARYLAND ACADEMY OF SCIENCES,
BALTIMORE

SPECIAL ARTICLES

THE FALL IN BLOOD PRESSURE ASSOCIATED WITH INTRAVENOUS INJECTION OF TISSUE EXTRACTS¹

INTEREST in the long-known but still inadequately

¹ This work was aided by a grant from the Commonwealth Fund.

understood vaso-depressor effects of tissue extracts has been augmented with the increasing use of such preparations. Many theories concerning this vaso-depressor phenomenon have been suggested and different methods of removing such activity from ex-