

Bible days. Many are now, and others that grew then have now disappeared.

PRINCIPLES AND METHODS OF CHEMICAL ANALYSIS—Harold F. Walton—*Prentice-Hall*, 435 p., illus., \$8.65. Text intended for senior undergraduates and graduate students covering the field of non-instrumental analysis.

SPACE AND TIME PERSPECTIVE IN NORTHERN ST. JOHNS ARCHEOLOGY, FLORIDA—John M. Goggin—*Yale University Press*, Yale University Publications in Anthropology, No. 47, 147 p., illus., paper, \$2.00. The study points out a long continuity of culture in the Northern St. Johns Region, which began before the time of Christ and extended to the eighteenth century.

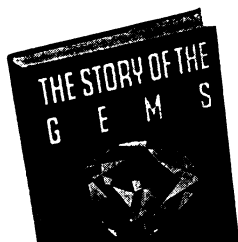
SQUEAL OF TIRES ROUNDING CURVES—Joseph Barnett and others—*Highway Research Board*, Bulletin No. 51, 16 p., illus., paper, 30 cents. When you hear tires squealing around a curve, it does not mean that the car is speeding.

38 COMMON QUESTIONS—38 AUTHORITATIVE ANSWERS: Subject Animal Experimentation—*National Society for Medical Research*, 14 p., paper, free upon request to publisher, 208 North Wells St., Chicago 6, Ill. Facts in handy form for use in combatting the propaganda of anti-vivisectionists.

VECTOR ANALYSIS—Earl C. Rex—*William C. Brown*, 88 p., illus., paper, \$3.25. An introductory text for mathematics and physics students containing 53 examples with their solutions.

Science News Letter, September 20, 1952

Maine fishermen are using a rubber suction hose to load sardines aboard boats from fish nets; the hose can load 65 tons of sardines in an hour, three times more than done formerly by pulling the net and fish aboard.



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GENETICS

Complete White-Negro Mixing in 1,000 Years

► COMPLETE MIXING of the white and Negro races in the United States will probably take about 1,000 to 2,000 years, or 40 to 70 generations.

The white-Negro mixture rate was discussed in Ithaca, N. Y., before the American Society of Human Genetics by Dr. Bentley Glass of the department of biology of Johns Hopkins University, Baltimore, and Dr. C. C. Li of the Graduate School of Public Health, University of Pittsburgh.

They reported that "3.6% of all the genes in the North American Negro population are freshly introduced from the North American white population per generation." Their figure is based on measuring the number of times certain genes, tiny carriers of heredity, occur in Negroes. One of the genes used was R^0 , a gene involved in Rh blood grouping.

According to their calculations, this gene occurs 63% of the time in West African Negroes, 44.6% of the time in North American Negroes and 2.8% in whites.

Seven different genes were studied, six of them affecting blood types and one affecting the ability to taste phenylthiocarbamide, a chemical that is unpleasant to some persons, has no taste for others. The difference is believed to be dependent upon inherited factors.

Drs. Glass and Li have found that on the basis of these gene measurements, the rate of mixing of genes between the white and Negro races can be found. They use a period of 10 generations (1675-1950) as the time during which mixing has been going on.

The average rate between 1675 and 1950 has probably not been constant, they say. It has, rather, been a curve that gets flatter as time goes by. In other words, the mixing was much greater at the beginning of their measurement period, 1675, than it is now.

Or, as they say, "Thirty percent of the genes in the U. S. Negro population are by now derived from the U. S. white population—but it will take far more than 10 additional generations for the next 30% to become transferred, unless the average rate is increased."

If the present average rate were to be kept up indefinitely, Drs. Li and Glass figure, it would take about 40 to 70 generations, or 1,000 to 2,000 years, before the Negro-white mixing is complete.

Their method not only tells what the total amount of intermixture is at the present time, but also tells about how fast the process has proceeded in the past.

Drs. Bentley and Glass also outlined a method for studying whether the rate in the three generations now living is greater, lower or identical with the average rate.

The study was based on Negro populations in Baltimore, New York and several other large cities.

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