and cleans the piece without removing any of the metal.

Tools of modern chemistry, such as the electrolytic cell, the ultraviolet lamp, the chemical microscope and the X-ray tube, can be used to decide whether an art work is genuine or a fraud or forgery, he pointed

Dr. Fink spoke to a meeting of the Minnesota section of the American Chemical Society at St. Olaf College, Northfield,

Science News Letter, May 21, 1949

**PSYCHOLOGY** 

# Roots of Crime in Home

➤ CRIME has its roots in bickering, nagging and other forms of tension in the home, Dr. David Abrahamsen, psychiatrist of Columbia University, told a New York forum on the Study and Prevention of Crime. He based his conclusion on a psychological study of 80 families of juvenile delinquents and criminals under a grant by the Josiah Macy Foundation. The first report of the project was summarized by Dr. Abrahamsen.

The family needs psychiatric treatment, as well as the offender, if the offender is to be cured of his criminal tendencies, the investigation revealed. Even in those cases where on the surface it appeared that the offender came from a reasonably happy home, the Rorschach ink-blot test of personality revealed that in almost all homes, the father or the mother and sometimes both needed psychiatric attention. In every one of the 80 homes studied there was hostility, nagging, bickering, all due to family tension. In one home the mother was found to be mentally ill, the father suffering from a compulsion, the brothers were neurotic and the only reasonably mentally well person was the offender himself.

In some cases the families did not want to continue treatment, but where cooperation was obtained the treatment resulted in remarkable reorientation of the offender to society.

The emotional atmosphere of the home is much more important from the point of view of crime prevention than is the economic condition, Dr. Abrahamsen found. Many of the offenders came from well-todo homes but where the family was torn by antagonism. And many poor families are happy and do not produce criminals, he pointed out.

There should be a law, he recommended, that if the family cannot provide a home reasonably free from hostility, the child should be taken away and given to foster parents who would make the child welcome and give him the peaceful atmosphere he needs.

Science News Letter, May 21, 1949

**PSYCHOLOGY** 

# Without Knowing the Brand **Smokers Have No Preference**

➤ IF IT WERE not for the brand name on the package, psychological evidence is that you would not have a favorite kind of cigarette. In an experiment reported in Springfield, Mass., to the Eastern Psychological Association by Dr. Edwin A. Fleishman, of the University of Maryland, ten persons smoked cigarettes on which the name was masked by a distinctively colored scotch tape. No stable preferences were established. The only brand smoked more often than the others was the least expen-

Each morning each of those taking part

in the experiment received a box containing six different brands of cigarettes. All those of one brand were marked with the same color scotch tape, but the next day the colors were changed around. In the second week, the colors were not changed around from day to day.

Although all the clues for identifying the various cigarettes were available to the smokers, except for the brand name itself, they showed no stable preference for a favorite, nor a dislike either. They did form preferences and avoidances but these shifted from brand to brand.

Science News Letter, May 21, 1949

#### SCIENCE NEWS LETTER

VOL. 55 MAY 21, 1949 No. 21

50,300 copies of this issue printed

The Weekly Summary of Current Science, pub-lished every Saturday by SCIENCE SERVICE, Inc., 1719 N St., N. W., Washington 6, D. C., NOrth 2255. Edited by WATSON DAVIS.

Subscription rates: 1 yr., \$5.50; 2 yrs., \$10.00; yrs., \$14.50; single copy, 15 cents, more than x months old, 25 cents. No charge for foreign

Change of address: Three weeks notice is required. When ordering a change, please state exactly how magazine is now addressed. Your new address should include postal zone number if you have one.

Copyright, 1949, by Science Service, Inc. Republication of any portion of SCIENCE NEWS LETTER is strictly prohibited. Newspapers, magazines and other publications are invited to avail themselves of the numerous syndicate services issued by Science Service. Science Service also publishes CHEMISTRY (monthly) and THINGS of Science (monthly). publishes CHEMIS Science (monthly).

Printed in U. S. A. Entered as second class matter at the post office at Washington, D. C. under the act of March 3, 1879. Established in mimeographed form March 18, 1922. Title registered as trademark, U. S. and Canadian Patent Offices. Indexed in Readers' Guide to periodical Literature, Abridged Guide, and the Engineering Index

Member Audit Bureau of Circulation. Advertis-ing Representatives: Howland and Howland, Inc., 393 7th Ave., N.Y.C., PEnnsylvania 6-5566 and 360 N. Michigan Ave., Chicago. STAte 4439.

#### SCIENCE SERVICE

The Institution for the Popularization of Science organized 1921 as a non-profit corporation.

organized 1921 as a non-profit corporation.

Board of Trustees—Nominated by the American Association for the Advancement of Science: Edwin G. Conklin, Princeton University; Karl Lark-Horovitz, Purdue University; Kirtley F. Mather, Harvard University. Nominated by the National Academy of Sciences: Harlow Shapley, Harvard College Observatory; R. A. Millikan, California Institute of Technology; L. A. Maynard, Cornell University. Nominated by the National Research Council: Ross G. Harrison, Yale University; Alexander Wetmore, Secretary, Smithsonian Institution; Rene J. Dubos, Rockefeller Institute for Medical Research. Nominated by the Journalistic Profession: A. H. Kirchhofer, Buffalo Evening News; Neil H. Swanson, Baltimore Sun Papers; O. W. Riegel, Washington and Lee School of Journalism. Nominated by the E. W. Scripps Estate: H. L. Smithton, E. W. Scripps Trust; Frank R. Ford, Evansville Press; Charles E. Scripps, Scripps Howard Newspapers.

Officers—President: Harlow Shapley, Vice President and chairman of Executive Committee: Alexander Wetmore, Treasurer: O. W. Riegel, Secretary: Watson Davis.

Staff—Director: Watson Davis. Writers: Frank Thone, Jane Stafford, A. C. Monahan, Marjorie Van de Water, Martha G. Morrow, Ron Ross, Lydia Schweiger. Science Clubs of America: Joseph H. Kraus, Margaret E. Patterson. Photography: Fremont Davis. Sales and Advertising: Hallie Jenkins. Production: Priscilla Howe. In London: J. G. Feinhers

# Question Box-

#### AERONAUTICS

What are some of the problems to be solved in supersonic flight? p. 332.

## CHEMISTRY

What advances are predicted with cold-rubber? p. 327.

#### **ENTOMOLOGY**

What are some of the potent weapons against flies? p. 330.

#### MEDICINE

What will the new test for blood stickiness reveal to doctors? p. 323.

# NUCLEAR PHYSICS

How may concrete be used in an atomic laboratory? p. 323.

## PSYCHIATRY

What drug is expected to be a boon to the mentally ill? p. 322.

#### PSYCHOLOGY

What are some of the reasons that newspapers are read? p. 325.

#### WILDLIFE

Why should seemingly friendly wild animals be avoided? p. 329.

**Photographs:** Cover, p. 327, p. 330, p. 331, Fremont Davis; p. 323, University of Wisconsin; p. 325, Westinghouse Electric Corp.