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Police Science Technical Abstracts and Notes

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POLICE SCIENCE TECHNICAL ABSTRACTS AND NOTES

Joseph D. Nicol*

Coatings — T. G. Rochow and R. W. Stafford, *Analytical Chemistry*, 24: (2) 232-5 (Feb., 1952). This article is presented as part of the Fourth Annual Review of Analytical Chemistry. Since coatings are always of interest to forensic scientists this article is of particular value. The authors review all of the important developments in this field for the year 1951. Five sections are used: General Analytical Schemes for Organic Coatings; Resinography and Related Topics; Specific Classes of High Polymeric Materials, Oils and Waxes; Specific Constituents. A bibliography of 158 references appears. (Submitted by Clemens R. Maise, St. Louis Police Laboratory.)

Photometric Determination of Microquantities of Arsenic—C. E. Bricker and P. B. Sweetser, *Analytical Chemistry*, 24: (2) 409-11 (Feb., 1952). The authors describe a volumetric method for determining microquantities of arsenic. The end point is detected photometrically using a Beckman DU Spectrophotometer. It is claimed that the accuracy is 1-2 parts per thousand. A ceric sulfate solution ($10^{-4}N$) is used for titration. (Submitted by Clemens R. Maise).

Pharmaceuticals and Natural Drugs — M. M. Marsh and W. W. Hilty, *Analytical Chemistry*, 24: 271-9 (Feb., 1952). Another of the Fourth Annual Review series, this article outlines the developments in this field for 1951. New analytical methods are discussed under three headings: Chemical Methods; Physical Methods; Physicochemical Methods. In view of the current emphasis on control of the drug traffic, this article will be of interest to forensic chemists. (Submitted by Clemens R. Maise.)

Colorimetric Microdiffusion Determination of Chloride—H. T. Gordon, *Analytical Chemistry*, 24: (5) 857-62 (May, 1952). This method is a simpler, faster, and more sensitive colorimetric modification of the Conway microdiffusion analysis for chloride (0.3 micrograms of chloride in 0.1 to 0.4 ml. of solution) and bromide. It is applicable to many organic compounds containing chlorine and bromine. Chloride is oxidized to chlorine by permanganate. The chlorine quantitatively decolorizes a solution of the dye, Fast Green. Residues of 1 to 10 p.p.m. of chlorinated insecticides (such as Chlordan, Heptachlor, Lindane, Toxophene, Methoxychlor, and DDT) can be determined. (Submitted by Clemens R. Maise)

Astra Rifling Specifications—B. D. Munhall, *Identification News*, 2: 7 (May, 1952). The Astra Automatic Pistols, manufactured by the Unceta y Compania S. A. of Guernica, Spain, are rifled with six lands and grooves inclined to the right in .32 ACP, .380 ACP, 9m/m Parabellum and 9 m/m Long .38. A .25 ACP pistol is rifled with six lands and grooves inclined to the left. Rate of twist, groove diameter, land diameter, groove width, and land widths are also given.

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New York State Bureau Makes Large Primary Distribution Survey—W. E. Cashin, *Identification News*, 2: 3-5 (May, 1952). The fingerprints at the New York State Division of Criminal Identification were divided into two groups, those born before 1910 and those born after 1910. The group born before 1910 was surveyed according to the distribution of cards in each primary classification. The resulting figures are tabulated.

The Bower System of Classifying Plain Arch Fingerprint Patterns—B. L. Bower, *Fingerprint Magazine*, 33: 3-6 (April, 1952). The fingerprint classifying reticule used by the Canadian Armed Forces Identification Bureau in classifying Plain Arch Patterns is described. By the use of a new system of classifying Plain Arch patterns, a total of 59,049 separate breakdowns are possible.

Arson Detection by Firemen—R. C. Steinmetz. A review of the relation of firemen to arson detection, presented at the Twenty-Fourth Annual Fire Department Instructors Conference, Jan. 8-11, 1952, at Memphis, Tennessee.

Four-Year Training Program at L. S. U.—At the request of police officials of Louisiana, a four-year college training program will be initiated at Louisiana State University this fall. Specialized courses, as well as a general education, will be given. Each year a number of short courses will be offered for policemen in service. The program is under the supervision of the L. S. U. University College.

Browning M-35 Hi-Power—E. J. Hoffschmidt, *The American Rifleman*, 100: 44-5 (May, 1952). The Browning M1935, 13-shot, 9 m/m, Hi-Power pistol is described with instructions for field stripping and more complete take down. No rifling data is given.

Practical Pistol Shooting—W. R. Walsh, *The American Rifleman*, 100: 25-7 (May, 1952). The Pistol Course taught at the FBI Academy is described with suggestions as to its implementation.

Spontaneous Combustion of Sawdust—W. F. Hesselink, *International Criminal Police Review*, (No. 57) 111 (April, 1952). The spontaneous ignition of damp sawdust in a furniture factory is discussed.

Far-Identification by Fingerprints—V. Karesalo, *International Criminal Police Review*, (No. 57) 112-5 (Apr., 1952). The fingerprint formula used by the Central Bureau of Criminal Identification in Finland is related by its originator. Rapid service on telegraph inquiries is effected.

Proof Spirit, What Is It?—J. Hossack, *International Criminal Police Review*, (No. 57) 116-21 (Apr., 1952). The historical background of "Proof Spirit" and its determination and calculations are given.

The Effects on the Cat of Addictive Morphine Derivatives and Synthetic

New Products

EDITOR'S NOTE: It is the purpose of this additional service to the readers of the Journal to call their attention to new products deemed helpful in police fields. Data presented will be abstracts of the manufacturer's literature or reports of demonstrations. Only those products considered most suitable to police science will be included. The mention of any product in this Journal, however, is not to be construed as a recommendation by the Journal.

Alcometer—Breath Sampler—Alfred Bicknell Associates, Inc., Cambridge 39, Mass., is manufacturing a device for obtaining breath samples from an unconscious person. This device, developed at the Yale School of Alcoholie Studies, consists of a double acting rubber bulb, with metal valves, joined to a Collins metabolism rubber mouthpiece, and a rubber balloon. The balloon, containing the breath sample, is then attached to the inlet of the Alcometer.

NOTES FROM PROFESSIONAL ORGANIZATIONS

American Academy of Forensic Sciences

The American Academy of Forensic Sciences will hold its fifth annual meeting at the Drake Hotel, Chicago, Illinois, Feb. 26-28, 1953. All those interested in presenting papers are advised to contact Dr. Milton Helpern, program chairman, 106 E. 85th St., New York 28, N. Y. Titles and abstracts of papers should be submitted no later than Dec. 1, 1952.

Society for Advancement of Criminology

The Society for the Advancement of Criminology is planning to hold a one-day interim meeting in conjunction with the AAFS meeting. The tentative date is Feb. 24, 1953, at Northwestern Univ. Law School. Please contact Prof. Ralph F. Turner, Chairman, for further details.

FOREIGN LANGUAGE PERIODICALS AND ARTICLES OF INTEREST IN THE FIELD OF POLICE SCIENCE*

Compiled by

Kurt Schwerin**

Annales de médecine légale et de criminologie. Paris. 32d year, nos. 1-2, Jan./Feb.-March/April, 1952.

M. Muller, *La responsabilité de l'expert* (The responsibility of the expert) (no. 1, p. 43-47).—Enricho Fulchignoni, *L'emploi des moyens audio-visuels en criminologie* (The employment of audio-visual means in criminology) (no. 2, p. 112-119).—J. Trillot, *De l'expertise psychiatrique à l'expertise criminologique* (From psychiatry to criminological expert opinion) (no. 2, p. 120-136).—Maurice Lecomte, *Comment concevoir l'institution d'un casier psychiatrique des délinquants expertisés par voie de justice* (How to establish a psychiatric record of delinquents who have been legally investigated) (no. 2, p. 137-139).

*All periodicals listed are available in the Elbert H. Gary Library, Northwestern University School of Law, 357 East Chicago Ave., Chicago.

**Head, Foreign and International Law Sections, Elbert H. Gary Library, Northwestern University School of Law.

International criminal police review. Paris. Seventh year, no. 57, April, 1952 (English edition).

The United Nations' European Seminar, Brussels, December, 1951: P. Marabuto, *The scientific examination of the delinquent* (p. 98-103).—Jean N. Georgiades, *A stupid attack by gangsters* (p. 104-110).—W. F. Hesselink, *Spontaneous combustion of sawdust* (p. 111).—V. Karesalo, *Far-identification by fingerprints* (p. 112-115).—James Hossack, *Proof spirit; what is it?* (p. 116-121).

Investigações. Revista do Departamento de investigações. São Paulo (Brazil). Third year, no. 34, October, 1951; no. 36, Dec. 1951 (Published monthly; first listing).

Astor Guimarães Dias, *O problema criminológico de alcoolismo* (The criminological problem of alcoholism) (no. 34, 85-110).—Antonio G. Valcárcel, *Identificação das impressões dactiloscópicas* (Identification of fingerprints) (no. 36, p. 43-56).

Kriminalistik. Heidelberg. Sixth year, nos. 9/10-11/12, May-June, 1952.

Erich Schmied, *Die fälschung von fingerabdrücken* (The falsification of fingerprints) (no. 9/10, p. 99-102; no. 11/12, p. 130-133).—H. H. Huelke, *Die identifizierung von kraftfahrzeugen* (The identification of motor vehicles) (no. 9/10, p. 106-109).—Leonhard Reitberger, *Verbotene vernehmungsmethoden (Nachtrag)* (Prohibited methods of interrogation, Supplement) (no. 9/10, p. 109-110).—K. A. Tramm, *Sogenannte pyromanen als brandstifter* (Pyromaniacs as incendiaries) (no. 11/12, p. 134-137).

Nordisk kriminalteknisk tidsskrift. Stockholm. 21st year, nos. 9-11, 1951.

A. Brüning, *Finkalibriga vapen och deras kriminalistiska betydelse* (The firearms of the smallest calibers and their criminological significance) (no. 9, p. 97-106; no. 10, p. 109, 113).—Hermann Seichter, *Har grafologien praktisk betydelse i kriminaltekniken?* (On the practical significance of graphological investigations for criminology) (no. 11, p. 121-127).

Polizei-praxis. Frankfurt a/Main. Sixth year, no. 13/14, July, 1952.

W. Becker, *Grenzen der vernehmungstaktik* (Limits of examination tactics) (p. 168-170).

Rassegna di neuropsichiatria. Ospedale Psichiatrico Consortile Nocera Inferiore (Salerno, Italy) Vol. 6, nos. 1-2, Jan./Feb.—March/April, 1952.

Aldo Rabassini & Olindo Scopel, *Tre anni di elettro-narcosi* (Three years of electro-narcosis. A clinical-therapeutical contribution) (no. 1, p. 1-16).—Annibale Puca, *Psicocirurgia e criminalità* (Psychosurgery and criminality) (no. 2, p. 106-114).

Zeitschrift für Strafvollzug. Wiesbaden (Germany), 2d year, 1951, no. 6.

A. Däumling, *Die aufgaben des psychologen im sozial-psychagogischen strafvollzug* (The task of the psychologist in social-psychagogic criminal procedure) (p. 7-11).