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SEROLOGIST
DNA ANALYST & CONSULTANT
CRIME SCENE RECONSTRUCTION

RICHARD L. BRUNELLE

Retired Ink Dating Consultant
Forensic Chemist

EDUCATION

B.A. (Chemistry) – 1960 Clark University Worcester, MA

M.S. (Forensic Science) – 1972 The George Washington University Washington, DC

WORK EXPERIENCE

The Worcester Foundation for Experimental Biology Worcester, MA Research Chemist (1960-1961)

U.S. Food and Drug Administration Boston, MA Analytical Chemist (1961-1963)

Bureau of Alcohol, Tobacco and Firearms (ATF) Boston, MA Forensic Chemist (1963-1965)

ATF Headquarters Laboratory Washington, DC Analytical Chemist (1965-1967)

ATF Headquarters Laboratory Washington, DC Forensic Chemist (1967-1974)

ATF Headquarters Laboratory Washington, DC Chief, Identification Laboratory (1974-1978)

ATF Headquarters Laboratory Rockville, MD Chief, Forensic Science Laboratory (1978-1983)

ATF Headquarters Laboratory Rockville, MD Chief, Scientific Services Division (1983-1985)

ATF Headquarters Laboratory Rockville, MD Deputy Director, Laboratory Services (1985-1987)

ATF Headquarters Laboratory Rockville, MD Chief, Forensic Science Laboratory (1987-1988)

Brunelle Forensic Laboratory Fredericksburg, VA Owner (1988-1997)

COURT TESTIMONY

RICHARD L. BRUNELLE

Testified over 150 times in criminal and civil cases in Federal, State and military courts throughout the United States, Israel and Australia.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

President, Society of Forensic Ink Analysis

Fellow of the American Academy of Forensic Sciences

Past President of the International Association for Identification

Past President of the Chesapeake Bay Division of the International Association for Identification

Former member of the America Society of Crime Lab Directors

OTHER PROFESSIONAL ACTIVITIES

Former Adjunct Professor in Forensic Sciences at Antioch School of Law, Northeastern University and The George Washington University

Served as Liaison Officer to correlate activities in the forensic sciences among the Association of Official Analytical Chemists, The American Society for Testing Materials and The American Academy of Forensic Sciences

Served as a member of the Editorial Board of the Journal of Forensic Sciences for over 15 years

Served on the Steering Committee for the American Association of Forensic Science Educators

Program Chairman for the 1975 and 1978 educational conferences on the International Association for Identification, held in Washington DC and Austin Texas

Represented ATF at Interpol Forensic Science Symposia held at St Cloud, France in 1975, 1978, 1983 and 1986

Served on LEAA funded National Advisory Committee to establish a mechanism for evaluating methods used in crime laboratories and to produce a compendium of commonly used methods in forensic science laboratories

Member of the National Proficiency Testing Advisory Committee for the American Society of Crime Laboratory Directors (1983-1988)

SPECIAL AWARDS

John A Dondero Memorial Award received from the International Association of Identification for developing the first techniques in the United States for the identification and dating of writing inks

Special Service Awards for developing forensic applications of gas chromatography and atomic absorption

Outstanding Performance Ratings at ATF in 1980, 1981, 1983 and 1986

Listed in American Men and Women of Science

MAJOR CONTRIBUTIONS TO ATF

Developed the first procedure in the United States for the identification and dating of writing inks

Developed the forensic applications of gas chromatography and atomic absorption

Established a National Ink Tagging Program

Established the capability to conduct arson examinations

Instrumental in the establishment of a Serology Section in the laboratory

Responsible for the establishment and staffing of a new Identification Laboratory which consisted of 17 employees in six program areas:

Questioned Document Examination	Voiceprint Examination
Firearms and Toolmarks Examination	Fingerprint Examination
Ink and Paper Examinations	Forensic Photography

Responsible for the placement of fingerprint kits to ATF agents working in the field

Established internship training programs for ATF with George Washington University, Northeastern University, University of Central Florida, Hood College and Antioch School of Law

Established Arson Training Program for State and Local law enforcement officers

Established laboratory capability to detect counterfeit tax stamps in support of ATF cigarette smuggling investigations

Established Quality Assurance Program for the ATF Laboratory System

Responsible for the National Accreditation of the Headquarters Forensic Science Laboratory, ATF was the first Federal Forensic Laboratory to be accredited

Responsible for the production of a video tape training film on "Procedures for the Collection and Preservation of Evidence at Arson Crime Scenes"

Established National ATF Fingerprint File

Installed first computer system in the ATF Laboratory System to handle and process information

Designed, wrote and implemented the 1984 Lab System reorganization, including the establishment of the new Special Projects Laboratory at the National Laboratory Center

SCIENTIFIC PUBLICATIONS

Quantitative Determination of Benzaldehyde in Flavors by Gas Chromatography, JAOAC (1964)

Comparative Study of Anthranilic Acid Esters by Ultraviolet Spectrometry, Gravimetry and Gas Chromatography, JAOAC (1967)

RICHARD L. BRUNELLE

Quantitative Determination of Benzaldehyde in Flavors and Cordials by Ultraviolet Spectrometry and 2,4-Dinitphenylhydrazine Precipitation, JAOAC (1967)

Quantitative Determination of Fixed Acids in Wines by Gas Chromatographic Separation of Trimethyl Silylated Derivatives, JAOAC (1967)

Collaborative Study of the Quantitative Determination of Fused Oil and Ethyl Acetate by Gas Chromatography, JAOAC (1968)

Determination of the Trace Component Distribution in Illicit Spirits by Neutron Activation Analysis, Atomic Absorption and Gas Chromatography

Forensic Comparison of Soils by Neutron Activation and Atomic Absorption Analysis, J. Criminal Law, Criminology and Police Science (1969)

Evaluation of Gas Chromatography for the Quantitative Determination of Fused Oil in Distilled Spirits, JAOAC (1967)

Determination of the Chemical Elements in Soil by Neutron Activation and Atomic Absorption Analysis, JAOAC (1969)

Soil Analysis by Neutron Activation and Atomic Absorption Analysis, presented in the proceedings of an International Symposium on Neutron Activation Analysis (1968)

Comparison of Black Paints by Neutron Activation Analysis, Interpol Journal (1969)

Comparison of Bullet Lead by Atomic Absorption, Identification News (1969)

Determination of Bullet Lead Composition by Atomic Absorption Analysis, JAOAC (1970)

Characterizations of Heroin, JAOAC (1970)

Comparison of Paper by Neutron Activation Analysis, Identification News (1970)

Systematic Approach to Ink Identification, JAOAC (1972)

Report on Forensic Sciences, JAOAC (1972)

Report on Forensic Sciences, JAOAC (1973)

Ink Identification: A Weapon against Organized Crime, IAI (1973)

Role of Forensic Science at ATF, Identification News (1973)

Novel Techniques of Analysis – Their Admissibility as Evidence, JAOAC (1973)

Special Agent Forensic Handbook on the Collection and Preservation of Evidence and Crime Scene Search, Department of the U.S Treasury (1974)

Parameters of Ballpen Ink Examinations, JFS (1976)

Systematic Procedure for Paper Analysis, Identification News (1977)

Report on Forensic Sciences, JAOAC (1976)

Report on ATF's Ink Tagging Program, presented at the International Forensic Science Symposium (Interpol), St Cloud, France (1975)

Report on Ink Identification and Ink Dating Programs, presented at the International Forensic Science Symposium, Zurich, Switzerland (1975)

TLC Examination of Typewriter Ribbon Inks, JFS (1977)

Barium and Antimony Levels on Hands as Indicator of Gunfire residue, Journal of Radioanalytical Chemistry (1973)

Systematic Approach to the Identification of Explosives, presented at the Interpol Forensic Science Symposium, St Cloud, France (1978)

Status report on Explosives Tagging, presented at the Interpol Forensic Science Symposium, St Cloud, France (1978)

Voiceprint Identification – A Status report, presented at the Interpol Forensic Science Symposium, St Cloud, France (1978)

Comparison of Pencil Leads, JFS (1978)

Determination of the Relative Age of Inks, presented at the Interpol Forensic Science Symposium, St Cloud, France (1980)

A Quality Assurance Program for Forensic Laboratories, JFS (1982)

Forensic Examination of Inks and Paper (a Textbook), Charles Thomas Publishers (1984)

Analysis of Explosives (A Book Review), JFS (1982)

ATF's Explosive and Arson Quality Assurance Programs, presented at the Interpol Forensic Science Symposium, St Cloud, France (1983)

Determining the Age of Inks by Fourier Transform Infrared Analysis, presented at the Interpol Forensic Science Symposium, St Cloud, France (1983)

Determining the Relative Age of Ballpoint Inks, presented at the Interpol Forensic Science Symposium, St Cloud, France (1983)

Determining the Relative Age of Ballpoint Inks, Using a Single Solvent Extraction Technique, JFS (1987)

Critical Evaluation Current Ink Dating Techniques, JFS (1987)

Training Requirements and Ethical Considerations for Ink Chemists, JFS (1987)

Determining the Relative Age of Ballpoint Ink, Using a Single Solvent Extraction, Mass Independent Approach, JFS (1989)

Ink Dating – State of the Art, JFS (1992)

Sequential Multiple Approach to Determine the Relative Age of Writing Inks, International Journal of Forensic Document Examiners (1995)

Technical Report with Case Studies on the Accelerated Aging of Writing Inks, International Journal of Forensic Document Examiners (1998)