

Journal of Forensic Sciences
Subject Index to Volume 29
1984

A

Accelerants

Accelerant identification in fire debris by gas chromatography/mass spectrometry techniques (Kelly and Martz), July, 714

Enhanced sensitivity in analysis of arson residues: an adsorption-tube/gas chromatograph method (Frenkel, Tsaroom, Aizenshtat, Kraus, and Dephna), July, 723

High-speed extraction of accelerants from arson debris (Higgins, Higgins, Oakes, and Braverman), July, 874

Accidents

Scientific approach to documenting evidence for accident reconstruction (Van Kirk), July, 806

Acetone

Metabolism of acetone to isopropyl alcohol in rats and humans (Lewis, Laufman, McAnalley, and Garriott), April, 541

Acquired immunodeficiency syndrome (AIDS)

Fungal cerebritis from intravenous drug abuse (Wetli, Weiss, Cleary, and Gyori), Jan., 260

Adrenal gland

Adrenal hypofunction and sudden death (Jindrich), July, 930

Age determination—*see* Human identification

Alcohol

Ethanol, marijuana, and other drug use in 600 drivers killed in single-vehicle crashes in North Carolina, 1978-1981 (Mason and McBay), Oct., 987

Hydromorphone and ethanol fatality (Levine, Saady, Fierro, and Valentour), April, 655

Improved recovery and stability of ethanol in automated headspace analysis (Christmore, Kelly, and Doshier), Oct., 1038

Alzheimer's disease

Alzheimer's disease and its effect on handwriting (Behrendt), Jan., 87

Amphetamines

Clandestine approach to the synthesis of phenyl-2-propanone from phenylpropenes (Dal Cason, Angelos, and Raney), Oct., 1187

Detection of methamphetamine and amphetamine in a single human hair by gas chromatography/chemical ionization mass spectrometry (Suzuki, Hattori, and Asano), April, 611

Amphetamines—Continued

Differentiation of side chain positional isomers of amphetamine (Soine, Thomas, Shark, Scott, and Agee), Jan., 177

Antigen systems

Attempts to determine the Lewis phenotypes of dried bloodstains (Sallee, Metzger, and Stolorow), Jan., 75

Archeology

Microanalysis of painted manuscripts and of colored archeological materials by Raman laser microprobe (Guineau), April, 471

Arson

Accelerant identification in fire debris by gas chromatography/mass spectrometry techniques (Kelly and Martz), July, 714

Comments on fire investigation procedures (Beland), Jan., 190

Comparison of partner and solo arsonists (Molnar, Keitner, and Harwood), April, 574

Enhanced sensitivity in analysis of arson residues: an adsorption-tube/gas chromatograph method (Frenkel, Tsaroom, Aizenshtat, Kraus, and Dephna), July, 723

Fire investigation involving combustion of carpet material (Howard and McKague), July, 919

High-speed extraction of accelerants from arson debris (Higgins, Higgins, Oakes, and Braverman), July, 874

Asphyxia

Lingual thyroglossal duct cyst causing death in a four-week-old infant (Hanzlick), Jan., 345

Unusual autoerotic death: asphyxia with an abdominal ligature (Thibault, Spencer, Bishop, and Hibler), April, 679

Automobiles

Determination of cause of damage to an automobile (Kuperstein), July, 923

B

Bacteria

Bacterial transmigration as an indicator of time of death (Melvin, Cronholm, Simson, and Isaacs), April, 412

Ballistics—see also Wound ballistics

Atypical gunshot wounds of entrance: an empirical study (Donoghue, Kalekar, Richmond, and Teas), April, 379

Determination of direction of fire from graze gunshot wounds of internal organs (Dixon), Jan., 331

Exit keyhole lesion and direction of fire in a gunshot wound of the skull (Dixon), Jan., 336

Bullet-shaped chest tube tip: potential pitfall in diagnosis (Messmer and Wadsworth), Jan., 340

Forensic science problems associated with the accelerator cartridge (Thompson, Gluba, and Johnson), Jan., 162

Pattern of intersecting fractures and direction of fire (Dixon), April, 651

Right to keep and bear arms—a study of civilian homicides committed against those involved in criminal acts in metropolitan Dade County from between 1957 to 1982 (Copeland), April, 584

Simple method for studying the surface of fired bullets: varnishes for replicas (Torre and Giacobini), July, 915

Video system for the visualization of gunpowder patterns (Åbrink, Andersson, and Maehly), Oct., 1223

Ballpoint pens—see Pens**Barbiturates**

Comparative study of postmortem barbiturates, methadone, and morphine in vitreous humor, blood, and tissue (Ziminski, Wemyss, Bidanset, Manning, and Lukash), July, 803

Postmortem stability of barbiturates in blood and tissues (Levine, Blanke, and Valentour), Jan., 131

Bears

Enzyme phenotyping of Alaskan bears for wildlife law enforcement (Wolfe), July, 910

Big game animals

Estimating the postmortem interval in big game animals (Edge), Oct., 1144

Birth

Spontaneous births into toilets (Mitchell and Davis), April, 591

Bite marks

Dusting and lifting the bite print: a new technique (Rao and Souviron), Jan., 326

Incidence of bite marks in a selected juvenile population: a preliminary report (Rawson, Koot, Martin, Jackson, Novosel, Richardson, and Bender), Jan., 254

Photographic techniques of concern in metric bite mark analysis (Krauss), April, 633

Presentation of bite mark evidence resulting in the acquittal of a man after serving seven years in prison for murder (Karazulas), Jan., 355

Statistical evidence for the individuality of the human dentition (Rawson, Ommen, Kinard, Johnson, and Yfantis), Jan., 245

Bite prints

Dusting and lifting the bite print: a new technique (Rao and Souviron), Jan., 326

Blood—see also Genetic typing

Attempts to determine the Lewis phenotypes of dried bloodstains (Sallee, Metzger, and Stolorow), Jan., 75

Detection of thyroglobulin in bloodstains as an aid in the diagnosis of mechanical asphyxia (Katsumata, Sato, Oya, and Yada), Jan., 299

Determination of carboxyhemoglobin in the presence of other blood hemoglobin pigments by visible spectrophotometry (Siek and Rieders), Jan., 39

Phosphoglucomutase types in blood and hair roots taken from post-transfusion subjects (Lawton and Kerr), April, 445

Postmortem methemoglobin concentrations and their significance (Reay, Insalaco, and Eisele), Oct., 1160

Postmortem stability of barbiturates in blood and tissues (Levine, Blanke, and Valentour), Jan., 131

Species identification of blood and saliva stains by enzyme-linked immunoassay (ELISA) using monoclonal antibody (Fletcher, Dolton, and Harris-Smith), Jan., 67

Bones—see Musculoskeletal system**Book reviews**

Alcohol, Drugs and The New Zealand Driver by Stone (Haag), Jan., 366

Autoerotic Fatalities by Hazelwood (Jones), Oct., 1268

Bloodstain Pattern Interpretation by MacDonnell (Lee), Jan., 359

Correctional Institutions by Fox (Peterson), Oct., 1264

Criminal Investigation—a Guide to Techniques and Solutions by Vandiver (Brunelle), July, 943

Ethics, Legal Medicine and Forensic Pathology by Plueckhahn (Wiecking), Oct., 1262

Forensic Medicine: A Guide to Principles, 2nd Edition by Gordon and Shapiro (Henry), Oct., 1261

Friction Ridge Skin by Cowger (Thornton), July, 945

Handbook of Forensic Archaeology and Anthropology by Morse et al (Maples), April, 685

Identification of Vegetable Fibers by Catling and Grayson (Longhetti), Jan., 362

Inclusion Probabilities in Parentage Testing by Walker (McWright), Oct., 1260

Industrial Chemical Exposure: Guidelines for Biological Monitoring by Lauwerys (Poklis), Jan., 360

The Insanity Defense—Philosophical, Historical and Legal Perspectives by Hermann (Tuchler), July, 946

Juvenile Delinquency: Concepts and Control by Trojnowicz and Morash (Tanay), July, 941

Post-Traumatic Neurosis by Trimble (Drucker), Oct., 1266

Practical Homicide Investigation: Tactics, Procedures, and Forensic Science Techniques by Geberth (McCarty), Jan., 363

Book reviews—Continued

Schusswaffen und Schusswirkungen I by Sellier (Ryser), July, 947

Toxicity and Forensic Implications of Cannabis Sativa Linn by Niyogi (Berman), Jan., 365

Breath-alcohol testing devices

Role of the forensic scientist in the application of chemical tests for alcohol in traffic law enforcement (Biasotti), Oct., 1164

Burning

Effects of burning on human bone microstructure: a preliminary study (Bradtmiller and Buikstra), April, 535

C

Cannabis—see Marijuana

Carbon monoxide

Atherosclerotic coronary artery disease and "low" levels of carboxyhemoglobin; report of fatalities and discussion of pathophysiologic mechanisms of death (Balraj), Oct., 1150

Cardiovascular system

Atherosclerotic coronary artery disease and "low" levels of carboxyhemoglobin; report of fatalities and discussion of pathophysiologic mechanisms of death (Balraj), Oct., 1150

Castings

Casting, another means of identification (McGraw), Oct., 1212

New improved technique for casting impressions in snow (Ojena), Jan., 322

New silicone rubber casting material designed for forensic science application (Ojena), Jan., 317

Catheters

Stomach rupture by infusion pump and Foley catheter (Donoghue and Lifschultz), Oct., 1225

Cerebritis

Fungal cerebritis from intravenous drug abuse (Wetli, Weiss, Cleary, and Gyori), Jan., 260

Chain saw

Suicide by the use of a chain saw (Segeberg-Kontinen), Oct., 1249

Character recognition

Examination of magnetic ink character recognition impressions (Anthony), Jan., 303

Chemical analysis

Accelerant identification in fire debris by gas chromatography/mass spectrometry techniques (Kelly and Martz), July, 714

New field kit for bullet hole identification (Steinberg, Leist, and Tassa), Jan., 169

Spectrophotometric determination of nitrites in gunpowder residue on shooters' hands (Steinberg, Leist, Goldschmidt, and Tassa), April, 464

Chest tube

Bullet-shaped chest tube tip: potential pitfall in diagnosis (Messmer and Wadsworth), Jan., 340

Child abuse

Forensic science approach to a starved child (Davis, Rao, and Valdes-Dapena), April, 663

Child abuse—Continued

Incidence of bite marks in a selected juvenile population: a preliminary report (Rawson, Koot, Martin, Jackson, Novosel, Richardson, and Bender), Jan., 254

Psychosocial dynamics of child abuse (Felthous), Jan., 219

Children

Tissue concentrations at autopsy in infants and children receiving therapeutic digoxin (Hastreiter and van der Horst), Jan., 139

Choline

Medicolegal study of enzymic fluorometry of choline in human semen (Takatori, Tomii, and Terazawa), April, 618

Chromatographic analysis—see also Chemical analysis

Analytical study of illicit lysergide (McDonald, Martin, Woods, Baker, and Gough), Jan., 120

Characterization of alkali blue pigment in counterfeit currency by high performance liquid chromatography (Keto), Jan., 198

Differentiation of side chain positional isomers of amphetamine (Soine, Thomas, Shark, Scott, and Agee), Jan., 177

Distribution of cimetidine in postmortem tissues (Berg, Lantz, Schentag, and Vern), Jan., 147

Efficient extraction of some common organic explosive from hand swabs for analysis by gas liquid and thin-layer chromatography (Twibell, Wright, Sanger, Bramley, Lloyd, and Downs), Jan., 277

Efficiency of capillary column gas chromatography in separating lysergic acid diethylamide (LSD) and lysergic acid methylpropylamide (LAMPA) (Stafford, Nichols, and Anderson), Jan., 291

Fire investigation involving combustion of carpet material (Howard and McKague), July, 919

High performance liquid chromatography-immunoassay of Δ^9 -tetrahydrocannabinol and its metabolites in urine (Peat, Deyman, and Johnson), Jan., 110

Identification of methoxy-*N*-methylamphetamines (Clark), Oct., 1056

Illicitly imported heroin products: some physical and chemical features indicative of their origin (O'Neil, Baker, and Gough), July, 899

Improved recovery and stability of ethanol in automated headspace analysis (Christmore, Kelly, and Doshier), Oct., 1038

Liquid chromatographic analysis of promethazine and its major metabolites in human postmortem material (Allender and Archer), April, 515

Postmortem stability of barbiturates in blood and tissues (Levine, Blanke, and Valentour), Jan., 131

Problems in using high performance liquid chromatography for drug analysis (Lurie), April, 607

Synthetic cocaine impurities (Cooper and Allen), Oct., 1045

Toxicologic studies in a fatal overdose of 2,4-D,

Chromatographic analysis—Continued

mecoprop, and dicamba (Fraser, Isner, and Perry), Oct., 1237

Trace analysis for explosives and related compounds via high performance liquid chromatography-photolysis-electrochemical detection (Krull, Ding, Selavka, Bratin, and Forcier), April, 449

Chromosomes

Determination of sex from forcibly removed hairs (Mudd), Oct., 1072

Cimetidine

Distribution of cimetidine in postmortem tissues (Berg, Lantz, Schentag, and Vern), Jan., 147

Cocaine

Sampling errors in the determination of cocaine in seized drugs (Kratochvil and Brown), April, 493

Synthetic cocaine impurities (Cooper and Allen), Oct., 1045

Collision research

Determination of cause of damage to an automobile (Kuperstein), July, 923

Comparative analysis

Comparison of partner and solo arsonists (Molnar, Keitner, and Harwood), April, 574

Identification of a rope by means of a physical match between the cut ends (Laux), Oct., 1246

Problems in using high performance liquid chromatography for drug analysis (Lurie), April, 607

Rapid method for cross-sectioning of multilayered paint chips (Petraco and Gale), April, 597

Competency

Competence to proceed: a functional and context-determinative decision (Bennett and Sullwold), Oct., 1119

Computers

Computer-aided X-ray diffraction identification of crystalline mixtures in forensic science investigations (Fischer and Goebel), Jan., 155

Computer-assisted population frequency study of 14 polymorphic blood grouping systems in North Carolina (Nelson), July, 762

Controlled substances

Clandestine approach to the synthesis of phenyl-2-propanone from phenylpropenes (Dal Cason, Angelos, and Raney), Oct., 1187

Crania—see Musculoskeletal system

Criminalistics

Accelerant identification in fire debris by gas chromatography/mass spectrometry techniques (Kelly and Martz), July, 714

Automated identification and analysis of fingerprints by interferometry (Seufert and Côté), April, 486

Blood grouping in a sexual assault case: criteria and methodology for genetic marker analysis (Tahir and Brown), April, 660

Casting, another means of identification (McGraw), Oct., 1212

Comments on fire investigation procedures (Beland), Jan., 190

Desirability of a Ph.D. program in forensic science (Kobilinsky and Sheehan), July, 706

Criminalistics—Continued

Determination of cause of damage to an automobile (Kuperstein), July, 923

Development of a radial gel diffusion technique for the identification of urea in urine stains (Bedrosian, Stolorow, and Tahir), April, 601

Efficient extraction of some common organic explosive from hand swabs for analysis by gas liquid and thin-layer chromatography (Twibell, Wright, Sanger, Bramley, Lloyd, and Downs), Jan., 277

Enhanced sensitivity in analysis of arson residues: an adsorption-tube/gas chromatograph method (Frenkel, Tsaroom, Aizenshtat, Kraus, and Daphna), July, 723

Fiber evidence: laboratory methods and observations from casework (Fong), Jan., 55

Fire investigation involving combustion of carpet material (Howard and McKague), July, 919

High-speed extraction of accelerants from arson debris (Higgins, Higgins, Oakes, and Braverman), July, 874

Identification of a rope by means of a physical match between the cut ends (Laux), Oct., 1246

Microscopical discrimination of twins' head hair (Bisbing and Wolner), July, 780

Neuropsychological performance of sexual assaulters and pedophiles (Scott, Cole, McKay, Golden, and Liggett), Oct., 1114

New field kit for bullet hole identification (Steinberg, Leist, and Tassa), Jan., 169

New improved technique for casting impressions in snow (Ojena), Jan., 322

Persistence of military explosives on hands (Twibell, Turner, Smalldon, and Higgs), Jan., 284

Picogram analyses of explosive residues using the thermal energy analyzer (TEA®) (Fine, Yu, Goff, Bender, and Reutter), July, 732

Right to keep and bear arms—a study of civilian homicides committed against those involved in criminal acts in metropolitan Dade County from between 1957 to 1982 (Copeland), April, 584

Role of the forensic scientist in the application of chemical tests for alcohol in traffic law enforcement (Biasotti), Oct., 1164

Room light and laser development of latent fingerprints with enzymes (Menzel, Everse, Everse, Sinor, and Burt), Jan., 99

Simple method for studying the surface of fired bullets: varnishes for replicas (Torre and Giacobini), July, 915

Simultaneous electrophoretic analysis of esterase D and phosphoglucomutase subtyping in fresh blood and in dried bloodstains (Adamo and Kobilinsky), April, 436

Spectrophotometric determination of nitrites in gunpowder residue on shooters' hands (Steinberg, Leist, Goldschmidt, and Tassa), April, 464

Suggested guidelines for the use of forensic hypnosis techniques in police investigations (Timm), July, 865

Suicide reconstruction by glue-lift of gunshot residue (Basu, Ferriss, and Horn), July, 843

Criminalistics—Continued

Super Glue®, a modified technique for the development of latent fingerprints (Olenik), July, 881

Trace analysis for explosives and related compounds via high performance liquid chromatography-photolysis-electrochemical detection (Krull, Ding, Selavka, Bratin, and Forcier), April, 449

Criminal sex offenses

Blood grouping in a sexual assault case: criteria and methodology for genetic marker analysis (Tahir and Brown), April, 660

Deaf sex offender (Harry), Oct., 1140

HLA typing of dried sperm (Regueiro and Arnaiz-Villena), April, 430

Neuropsychological performance of sexual assaulters and pedophiles (Scott, Cole, McKay, Golden, and Liggett), Oct., 1114

Crystalline material

Computer-aided X-ray diffraction identification of crystalline mixtures in forensic science investigations (Fischer and Goebel), Jan., 155

Cysts

Lingual thyroglossal duct cyst causing death in a four-week-old infant (Hanzlick), Jan., 345

D-E**Deafness**

Deaf sex offender (Harry), Oct., 1140

Death

Adrenal hypofunction and sudden death (Jindrich), July, 930

Bacterial transmigration as an indicator of time of death (Melvin, Cronholm, Simson, and Isaacs), April, 412

Clarifying the role of forensic anthropologists in death investigation (Sauer), Oct., 1081

Fatality involving phentermine (Levine, Caplan, and Dixon), Oct., 1242

Spontaneous births into toilets (Mitchell and Davis), April, 591

Tissue distribution of lidocaine after fatal accidental injection (Poklis, Mackell, and Tucker), Oct., 1229

Decomposition

Clarifying the role of forensic anthropologists in death investigation (Sauer and Simson), Oct., 1081

Density (mass/volume)

Correlation of glass density and refractive index—implications to density gradient construction (Thornton, Langhauser, and Kahane), July, 711

Dentition

Identification of a murder victim using a comparison of the postmortem and antemortem dental records (Rudnick), Jan., 349

Method of matching skulls with photographic portraits using landmarks and measurements of the dentition (McKenna, Jablonski, and Fearnhead), July, 787

Deviant sexual behavior

Symmetrical hypopigmentation of the nipples secondary to trauma (Rao and Penneys), July, 938

Diabetes mellitus

Metabolism of acetone to isopropyl alcohol in rats and humans (Lewis, Laufman, McAnalley, and Garriott), April, 541

Diagnostic and Statistical Manual

Diagnostic and Statistical Manual—III (Garmise, Guggenheim, and Schuster), Oct., 1127

Digoxin

Tissue concentrations at autopsy in infants and children receiving therapeutic digoxin (Hastreiter and van der Horst), Jan., 139

Driving (motor vehicle operation)

Detection of drugs in saliva of impaired drivers (Peel, Perrigo, and Mikhael), Jan., 185

Drowning

Motion of floating and submerged objects in the Chattahoochee River, Atlanta, GA (Dilen), Oct., 1027

Drug identification

Detection of drugs in saliva of impaired drivers (Peel, Perrigo, and Mikhael), Jan., 185

Drugs—see Toxicology and specific headings

Education

Desirability of a Ph.D. program in forensic science (Kobilinsky and Sheehan), July, 706

Electricity

Electrical damage—cause or consequence? (Beland), July, 747

Electrocution

Electrocution by street lighting (Mitchell and Davis), July, 836

Ground versus earth, there is a difference (Lieber), April, 550

Electrophoresis

Electrophoretic analysis of the third component of complement (C3) in dried bloodstains (Eberhart and Kobilinsky), July, 774

Enzyme phenotyping of Alaskan bears for wildlife law enforcement (Wolfe), July, 910

Increasing the sensitivity of detection of the electrophoretic marker group specific component in agarose gels by double-staining with Coomassie Brilliant Blue R250 and silver (Budowle), Oct., 1183

Simultaneous electrophoretic analysis of esterase D and phosphoglucomutase subtyping in fresh blood and in dried bloodstains (Adamo and Kobilinsky), April, 436

Embolisms

Massive head trauma as a case of intravascular air (Messmer), April, 418

Engineering

Correlation of glass density and refractive index—implications to density gradient construction (Thornton, Langhauser, and Kahane), July, 711

Ground versus earth, there is a difference (Lieber), April, 550

Enzymes

Enzyme phenotyping of Alaskan bears for wildlife law enforcement (Wolfe), July, 910

Room light and laser development of latent fingerprints with enzymes (Menzel, Everse, Everse, Sinor, and Burt), Jan., 99

Erythrocyte acid phosphatase—see Phosphatases

Esterase D

Simultaneous electrophoretic analysis of esterase D and phosphoglucomutase subtyping in fresh blood and in dried bloodstains (Adamo and Kobilinsky), April, 436

Ethanol—*see* Alcohol

Expert witnesses—*see* Witnesses

Explosives

Efficient extraction of some common organic explosive from hand swabs for analysis by gas liquid and thin-layer chromatography (Twibell, Wright, Sanger, Bramley, Lloyd, and Downs), Jan., 277

Persistence of military explosives on hands (Twibell, Turner, Smalldon, and Higgs), Jan., 284

Picogram analyses of explosive residues using the thermal energy analyzer (TEA®) (Fine, Yu, Goff, Bender, and Reutter), July, 732

Trace analysis for explosives and related compounds via high performance liquid chromatography-photolysis-electrochemical detection (Krull, Ding, Selavka, Bratin, and Forcier), April, 449

Extraction

Efficient extraction of some common organic explosive from hand swabs for analysis by gas liquid and thin-layer chromatography (Twibell, Wright, Sanger, Bramley, Lloyd, and Downs), Jan., 277

F-G**Family relations**

Diagnostic and Statistical Manual—III (Garmise, Guggenheim, and Schuster), Oct., 1127

Family violence (Tanay), July, 820

Fibers

Fiber evidence: laboratory methods and observations from casework (Fong), Jan., 55

Field kits

New field kit for bullet hole identification (Steinberg, Leist, and Tassa), Jan., 169

Fingerprints

Automated identification and analysis of fingerprints by interferometry (Seufert and Côté), April, 486

Room light and laser development of latent fingerprints with enzymes (Menzel, Everse, Everse, Sinor, and Burt), Jan., 99

Super Glue®, a modified technique for the development of latent fingerprints (Olenik), July, 881

Firearms—*see* Ballistics

Fires

Comments on fire investigation procedures (Beland), Jan., 190

Electrical damage—cause or consequence? (Beland), July, 74⁷

Forensic science

Characterization of alkali blue pigment in counterfeit currency by high performance liquid chromatography (Keto), Jan., 198

Computer-aided X-ray diffraction identification of

Forensic science—*Continued*

crystalline mixtures in forensic science investigations (Fischer and Goebel), Jan., 155

Computer-assisted population frequency study of 14 polymorphic blood grouping systems in North Carolina (Nelson), July, 762

Desirability of a Ph.D. program in forensic science (Kobilinsky and Sheehan), July, 706

Determination of carboxyhemoglobin in the presence of other blood hemoglobin pigments by visible spectrophotometry (Siek and Rieders), Jan., 39

Effects of writing instruments on handwriting details (Hilton), Jan., 80

Electrical damage—cause or consequence? (Beland), July, 747

Ethical and moral dilemmas confronting forensic scientists (Schroeder), Oct., 966

Increasing the sensitivity of detection of the electrophoretic marker group specific component in agarose gels by double-staining with Coomassie Brilliant Blue R250 and silver (Budowle), Oct., 1183

Motion of floating and submerged objects in the Chattahoochee River, Atlanta, GA (Dilen), Oct., 1027

New silicone rubber casting material designed for forensic science application (Ojena), Jan., 317

Rapid method for cross-sectioning of multilayered paint chips (Petraco and Gale), April, 597

Scientific approach to documenting evidence for accident reconstruction (Van Kirk), July, 806

Video system for the visualization of gunpowder patterns (Åbrink, Andersson, and Maehly), Oct., 1223

Forgery

Counterfeits: three groups, one source (Morton), Jan., 310

Gas chromatography—*see* Chromatographic analysis

Gas chromatography/mass spectrometry—*see* Chemical analysis

Gas liquid chromatography—*see* Chromatographic analysis

Gastrostomy

Stomach rupture by infusion pump and Foley catheter (Donoghue and Lifschultz), Oct., 1225

Genetic typing

Blood grouping in a sexual assault case: criteria and methodology for genetic marker analysis (Tahir and Brown), April, 660

Computer-assisted population frequency study of 14 polymorphic blood grouping systems in North Carolina (Nelson), July, 762

Electrophoretic analysis of the third component of complement (C3) in dried bloodstains (Eberhart and Kobilinsky), July, 774

Erythrocyte acid phosphatase in human hair root sheaths (Kimes, Tahir, and Stolorow), Jan., 64

Increasing the sensitivity of detection of the electrophoretic marker group specific component in agarose gels by double-staining with Coomassie Brilliant Blue R250 and silver (Budowle), Oct., 1183

Simultaneous electrophoretic analysis of esterase D

Genetic typing—Continued

and phosphoglucomutase subtyping in fresh blood and in dried bloodstains (Adamo and Kobilinsky), April, 436

Glass

Correlation of glass density and refractive index—implications to density gradient construction (Thornton, Langhauser, and Kahane), July, 711

Glycolysis

Effect of chilling, freezing, and rewarming on the postmortem chemistry of vitreous humor (Bray), April, 404

Eye as a chemical indicator of environmental temperature at the time of death (Bray), April, 396

Grounding

Electrocution by street lighting (Mitchell and Davis), July, 836

Ground versus earth, there is a difference (Liebler), April, 550

Group specific component

Increasing the sensitivity of detection of the electrophoretic marker group specific component in agarose gels by double-staining with Coomassie Brilliant Blue R250 and silver (Budowle), Oct., 1183

Gunshot residues

New field kit for bullet hole identification (Steinberg, Leist, and Tassa), Jan., 169

Spectrophotometric determination of nitrites in gunpowder residue on shooters' hands (Steinberg, Leist, Goldschmidt, and Tassa), April, 464

Suicide reconstruction by glue-lift of gunshot residue (Basu, Ferriss, and Horn), July, 843

Gunshot wounds—see Wound ballistics

H**Hair**

Detection of methamphetamine and amphetamine in a single human hair by gas chromatography/chemical ionization mass spectrometry (Suzuki, Hattori, and Asano), April, 611

Determination of sex from forcibly removed hairs (Mudd), Oct., 1072

Erythrocyte acid phosphatase in human hair root sheaths (Kimes, Tahir, and Stolorow), Jan., 64

Microscopical discrimination of twins' head hair (Bisbing and Wolner), July, 780

Phosphoglucomutase types in blood and hair roots taken from post-transfusion subjects (Lawton and Kerr), April, 445

Handwriting

Alzheimer's disease and its effect on handwriting (Behrendt), Jan., 87

Effects of writing instruments on handwriting details (Hilton), Jan., 80

Heroin

Illicitly imported heroin products: some physical and chemical features indicative of their origin (O'Neil, Baker, and Gough), July, 899

High performance liquid chromatographic analysis—see Chromatographic analysis

High pressure liquid chromatography—see Chromatographic analysis

Homicide

Art of forensic psychiatry: a montage of murder cases (Smith), Jan., 209

Right to keep and bear arms—a study of civilian homicides committed against those involved in criminal acts in metropolitan Dade County from between 1957 to 1982 (Copeland), April, 584

Human behavior

Antisocial personality—diagnosis of moral judgment? (Weinstock and Nair), April, 557

Human identification

Age estimation from the rib by phase analysis: white males (İşcan, Loth, and Wright), Oct., 1094

Clarifying the role of forensic anthropologists in death investigation (Sauer and Simson), Oct., 1087

Determination of sex from forcibly removed hairs (Mudd), Oct., 1072

Discriminant function sexing of the tibia (İşcan and Miller-Shaivitz), Oct., 1087

Effects of burning on human bone microstructure: a preliminary study (Bradt Miller and Buikstra), April, 535

Estimating the date of bone remains: a multivariate study (Castellano, Villanueva, and von Frenckel), April, 527

Exhumation and identification of Lee Harvey Oswald (Norton, Cottone, Sopher, and DiMaio), Jan., 19

Human remains recovered from a shark's stomach in South Carolina (Rathbun and Rathbun), Jan., 269

Identification of a murder victim using a comparison of the postmortem and antemortem dental records (Rudnick), Jan., 349

Metropolitan Forensic Anthropology Team (MFAT) studies in identification: 1. race and sex assessment by discriminant function analysis of the postcranial skeleton (Taylor, DiBernardo, Linares, Goldman, and DeForest), July, 798

Metropolitan Forensic Anthropology Team (MFAT) case studies in identification: 2. identification of a Vietnamese trophy skull (Taylor, Roh, and Goodman), Oct., 1253

Human leukocyte antigen

HLA typing of dried sperm (Regueiro and Arnaiz-Villena), April, 430

Hydromorphone

Hydromorphone and ethanol fatality (Levine, Saady, Fierro, and Valentour), April, 655

Hypnosis

Suggested guidelines for the use of forensic hypnosis techniques in police investigations (Timm), July, 865

Hypothermia

Hypothermia: autopsy findings and vitreous glucose (Coe), April, 389

I-J

Identification systems

- Analysis of the identification value of defects in IBM Selectric® typewriters (Miller), April, 624
 Development of a radial gel diffusion technique for the identification of urea in urine stains (Bedrosian, Stolorow, and Tahir), April, 601

Illegal drug sales

- Constituents of *Cannabis sativa* L. XXIV: the potency of confiscated marijuana, hashish, and hash oil over a ten-year period (ElSohly, Holley, Lewis, Russell, and Turner), April, 500

Immunoassay

- High performance liquid chromatography-immunoassay of Δ^9 -tetrahydrocannabinol and its metabolites in urine (Peat, Deyman, and Johnson), Jan., 110
 Species identification of blood and saliva stains by enzyme-linked immunoassay (ELISA) using monoclonal antibody (Fletcher, Dolton, and Harris-Smith), Jan., 67

Immunoglobulins

- Identification of human blood with hybridoma-derived antibody to human immunoglobulin G (Tamaki, Kishida, and Nishimukai), July, 885
 Sudden infant death syndrome: measurement of total and specific serum immunoglobulin E(IgE) (Mirchandani, Mirchandani, and House), April, 425

Immunology

- Identification of human blood with hybridoma-derived antibody to human immunoglobulin G (Tamaki, Kishida, and Nishimukai), July, 885

Impressions

- Casting another means of identification (McGraw), Oct., 1212
 Examination of magnetic ink character recognition impressions (Anthony), Jan., 303
 New improved technique for casting impressions in snow (Ojena), Jan., 322

Individuality

- Microscopical discrimination of twins' head hair (Bisbing and Wolner), July, 780
 Statistical evidence for the individuality of the human dentition (Rawson, Ommen, Kinard, Johnson, and Yfantis), Jan., 245

Infrared microscopy—see Microscopy**Injuries**

- Massive head trauma as a cause of intravascular air (Messmer), April, 418

Inks

- Characterization of alkali blue pigment in counterfeit currency by high performance liquid chromatography (Keto), Jan., 198

Interferometry

- Automated identification and analysis of fingerprints by interferometry (Seufert and Côté), April, 486

Intersecting lines

- Intersecting lines as a means of fraud detection (Taylor), Jan., 92

Isopropyl alcohol

- Metabolism of acetone to isopropyl alcohol in rats and humans (Lewis, Laufman, McAnalley, and Garriott), April, 541

Isozymes

- Case of strangulation with postmortem amputation of the penis (Ito, Sato, Sato, and Yada), July, 934

Jurisprudence

- Art of forensic psychiatry: a montage of murder cases (Smith), Jan., 209
 Competence to proceed: a functional and context-determinative decision (Bennett and Sullwold), Oct., 1119
Diagnostic and Statistical Manual—III (Garmise, Guggenheim, and Schuster), Oct., 1127
 Ethical and moral dilemmas confronting forensic scientists (Schroeder), Oct., 966
 Family violence (Tanay), July, 820
 Impact of a change in commitment procedures on the character of involuntary psychiatric patients (Levinson, Briggs, and Ratner), April, 566
 Management of forensic psychiatry patients who refuse medication—two scenarios (Rodenhauser and Heller), Jan., 237
 Role of the forensic scientist in the application of chemical tests for alcohol in traffic law enforcement (Biasotti), Oct., 1164
 Treating psychiatrist as forensic evaluator (Miller), July, 825

L

Letters to the editor

- Advantages of simulated crime scenes in teaching forensic anthropology (Berryman and Lahren), July, 699
 Annual meeting sites (Turner), Oct., 965
 Author's reply (Grieve), Oct., 960
 Authors' response (Bowerman and Levisky), Oct., 962
 Author's response (Dixon), Jan., 3
 Author's response (Fong), Oct., 957
 Author's response (Rowe), July, 696
 Author's response (Spencer), July, 699
 Authors' response (Wilkinson, Sockrider, Wilkinson, Zettl, and Kataoka), Jan., 5
 Discussion of "*Datura stramonium*: a fatal poisoning" (Michalodimitrakis and Koutselinis), Oct., 961
 Discussion of "fiber evidence: laboratory methods and observations from casework" (Grieve), Oct., 955
 Discussion of "George Armstrong Custer and the Battle of the Little Bighorn: homicide or mass suicide" (Rowe), July, 696
 Discussion of "minimal velocities necessary for perforation of skin by air gun pellets and bullets" (Mattoo), July, 700
 Discussion of "positive identification of torn paper

Letters to the editor—Continued

- matches with emphasis on crosscut and torn fiber comparisons" (Lucas), Jan., 3
- Discussion of "stud guns revisited: report of a suicide and literature review" (Weedn and Mittelman), Oct., 964
- Discussion of "the application of linear regression to range-of-fire estimates based on the spread of shotgun pellets patterns" (Rios and Thornton), July, 695
- Discussion of "the role of fibers in forensic examinations" (Stoney), Oct., 959
- Discussion of "the trapping, storing, and subsequent analysis of ethanol in in-vitro samples previously analyzed by a nondestructive technique" (O'Donnell and Laycock), Jan., 3
- Discussion of "the use of marijuana, ethanol, and other drugs among drivers killed in single vehicle crashes" (Green), Jan., 16
- Electrophoresis: a continuation of the discussion (Juricek), July, 704
- Forensic engineering—a definition (Putchat), April, 375
- Further discussion of "minimal velocities necessary for perforation of skin by air gun pellets and bullets" (Vitale and Bergh), April, 378
- Genetic analysis in forensic sciences (Jonakait), July, 948
- Level of alcoholic intoxication (Sander), Oct., 963
- Misapplication of genetic analysis in forensic science (Juricek), Jan., 8
- More discussion of "minimal velocities necessary for perforation of skin by air gun pellets and bullets" (Warniment), Oct., 963
- Procedures and responsibilities in forensic toxicology—to what extent are they the results of laboratory facilities? (Holmgren, Jonsson, and Schurberth), Jan., 16
- Response to "the misapplication of genetic analysis in forensic science" (Sensabaugh), Jan., 12
- Suicide and the computer age (Hanzlick), Oct., 964

Lidocaine

- Tissue distribution of lidocaine after fatal accidental injection (Poklis, Mackell, and Tucker), Oct., 1229

Line sequence

- Intersecting lines as a means of fraud detection (Taylor), Jan., 92

Lysergic acid

- Analytical study of illicit lysergide (McDonald, Martin, Woods, Baker, and Gough), Jan., 120
- Efficiency of capillary column gas chromatography in separating lysergic acid diethylamide (LSD) and lysergic acid methylpropylamide (LAMPMA) (Stafford, Nichols, and Anderson), Jan., 291

M-O**Machine coding**

- Examination of magnetic ink character recognition impressions (Anthony), Jan., 303

Magnetic ink character recognition—see Character recognition

Marijuana

- Constituents of *Cannabis sativa* L. XXIV: the potency of confiscated marijuana, hashish, and hash oil over a ten-year period (ElSohly, Holley, Lewis, Russell, and Turner), April, 500
- Ethanol, marijuana, and other drug use in 600 drivers killed in single-vehicle crashes in North Carolina, 1978–1981 (Mason and McBay), Oct., 987

Medical house calls

- Nonemergency forensic psychiatric house calls (Casals-Ariet and Bluestone), July, 831

Mental illness

- Antisocial personality—diagnosis of moral judgment? (Weinstock and Nair), April, 557
- Impact of a change in commitment procedures on the character of involuntary psychiatric patients (Levinson, Briggs, and Ratner), April, 566
- Management of forensic psychiatry patients who refuse medication—two scenarios (Rodenhauser and Heller), Jan., 237
- Treating psychiatrist as forensic evaluator (Miller), July, 825

Methamphetamine

- Detection of methamphetamine and amphetamine in a single human hair by gas chromatography/chemical ionization mass spectrometry (Suzuki, Hattori, and Asano), April, 611

Methemoglobin

- Postmortem methemoglobin concentrations and their significance (Reay, Insalaco, and Eisele), Oct., 1160

Methoxy-N-methylamphetamines

- Identification of methoxy-N-methylamphetamines (Clark), Oct., 1056

Metronidazole

- Analysis of metronidazole in human serum: an unusual overdose case (Siegel and Weisz), April, 639

Microcomputers—see Computers

Microscopy

- Fiber evidence: laboratory methods and observations from casework (Fong), Jan., 55
- Identification of a rope by means of a physical match between the cut ends (Laux), Oct., 1246
- Identification of wrinkled and charred counterfeit currency offset printing plate by infrared examination (Moon), April, 644

Money orders

- Counterfeits: three groups, one source (Morton), Jan., 310

Motor vehicle accidents

- Ethanol, marijuana, and other drug use in 600 drivers killed in single-vehicle crashes in North Carolina, 1978–1981 (Mason and McBay), Oct., 987

Musculoskeletal system

- Age estimation from the rib by phase analysis: white males (İşcan, Loth, and Wright), Oct., 1094
- Discriminant function sexing of the tibia (İşcan and Miller-Shaivitz), Oct., 1087

Musculoskeletal system—Continued

Estimating the date of bone remains: a multivariate study (Castellano, Villanueva, and von Frenckel), April, 527

Metropolitan Forensic Anthropology Team (MFAT) case studies in identification: 2. identification of a Vietnamese trophy skull (Taylor, Roh, and Goodman), Oct., 1253

Neuropsychology

Neuropsychological performance of sexual assaulters and pedophiles (Scott, Cole, McKay, Golden, and Liggett), Oct., 1114

Ninhydrin

Room light and laser development of latent fingerprints with enzymes (Menzel, Everse, Everse, Sinor, and Burt), Jan., 99

Nitrite

Spectrophotometric determination of nitrites in gunpowder residue on shooters' hands (Steinberg, Leist, Goldschmidt, and Tassa), April, 464

Nitroglycerine

Persistence of military explosives on hands (Twibell, Turner, Smalldon, and Higgs), Jan., 284

Odontology

Dusting and lifting the bite print: a new technique (Rao and Souviron), Jan., 326

Exhumation and identification of Lee Harvey Oswald (Norton, Cottone, Sopher, and DiMaio), Jan., 19

Identification of a murder victim using a comparison of the postmortem and antemortem dental records (Rudnick), Jan., 349

Incidence of bite marks in a selected juvenile population: a preliminary report (Rawson, Koot, Martin, Jackson, Novosel, Richardson, and Bender), Jan., 254

Method of matching skulls with photographic portraits using landmarks and measurements of the dentition (McKenna, Jablonski, and Fearnhead), July, 787

Metropolitan Forensic Anthropology Team (MFAT) studies in identification: 1. race and sex assessment by discriminant function analysis of the postcranial skeleton (Taylor, DiBenedardo, Linares, Goldman, and DeForest), July, 798

Metropolitan Forensic Anthropology Team (MFAT) case studies in identification: 2. identification of a Vietnamese trophy skull (Taylor, Roh, and Goodman), Oct., 1253

Photographic techniques of concern in metric bite mark analysis (Krauss), April, 633

Presentation of bite mark evidence resulting in the acquittal of a man after serving seven years in prison for murder (Karazulas), Jan., 355

Statistical evidence for the individuality of the human dentition (Rawson, Ommen, Kinard, Johnson, and Yfantis), Jan., 245

Lee Harvey Oswald

Exhumation and identification of Lee Harvey Oswald (Norton, Cottone, Sopher, and DiMaio), Jan., 19

P**Paints**

Rapid method for cross-sectioning of multilayered paint chips (Petraco and Gale), April, 597

Parent child relations

Nonemergency forensic psychiatric house calls (Casals-Ariet and Bluestone), July, 831

Psychosocial dynamics of child abuse (Felthous), Jan., 219

Passports

Passport examination (Levinson), April, 628

Pathology and biology

Adrenal hypofunction and sudden death (Jindrich), July, 930

Atherosclerotic coronary artery disease and "low" levels of carboxyhemoglobin; report of fatalities and discussion of pathophysiological mechanisms of death (Balraj), Oct., 1150

Attempts to determine the Lewis phenotypes of dried bloodstains (Sallee, Metzger, and Stolorow), Jan., 75

Atypical gunshot wounds of entrance: an empirical study (Donoghue, Kalekar, Richmond, and Teas), April, 379

Bacterial transmigration as an indicator of time of death (Melvin, Cronholm, Simson, and Isaacs), April, 412

Bullet-shaped chest tube tip: potential pitfall in diagnosis (Messmer and Wadsworth), Jan., 340

Case of strangulation with postmortem amputation of the penis (Ito, Sato, Sato, and Yada), July, 934

Detection of thyroglobulin in bloodstains as an aid in the diagnosis of mechanical asphyxia (Katsumata, Sato, Oya, and Yada), Jan., 299

Determination of direction of fire from graze gunshot wounds of internal organs (Dixon), Jan., 331

Determination of sex from forcibly removed hairs (Mudd), Oct., 1072

Distribution of cimetidine in postmortem tissues (Berg, Lantz, Schentag, and Vern), Jan., 147

Effect of chilling, freezing, and rewarming on the postmortem chemistry of vitreous humor (Bray), April, 404

Electrocution by street lighting (Mitchell and Davis), July, 836

Electrophoretic analysis of the third component of complement (C3) in dried bloodstains (Eberhart and Kobilinsky), July, 774

Enzyme phenotyping of Alaskan bears for wildlife law enforcement (Wolfe), July, 910

Erythrocyte acid phosphatase in human hair root sheaths (Kimes, Tahir, and Stolorow), Jan., 64

Estimating the postmortem interval in big game animals (Edge), Oct., 1144

Exhumation and identification of Lee Harvey Oswald (Norton, Cottone, Sopher, and DiMaio), Jan., 19

Exit keyhole lesion and direction of fire in a gunshot wound of the skull (Dixon), Jan., 336

Eye as a chemical indicator of environmental temperature at the time of death (Bray), April, 396

Pathology and biology—Continued

- Forensic science approach to a starved child (Davis, Rao, and Valdes-Dapena), April, 663
- Forensic science problems associated with the accelerator cartridge (Thompson, Gluba, and Johnson), Jan., 162
- HLA typing of dried sperm (Regueiro and Arnaiz-Villena), April, 430
- Human remains recovered from a shark's stomach in South Carolina (Rathbun and Rathbun), Jan., 269
- Hydromorphone and ethanol fatality (Levine, Saady, Fierro, and Valentour), April, 655
- Hypothermia: autopsy findings and vitreous glucose (Coe), April, 389
- Identification of human blood with hybridoma-derived antibody to human immunoglobulin G (Tamaki, Kishida, and Nishimukai), July, 885
- Lingual thyroglossal duct cyst causing death in a four-week-old infant (Hanzlick), Jan., 345
- Massive head trauma as a cause of intravascular air (Messmer), April, 418
- Medicolegal study of enzymic fluorometry of choline in human semen (Takatori, Tomii, and Terazawa), April, 618
- Metabolism of acetone to isopropyl alcohol in rats and humans (Lewis, Laufman, McAnalley, and Garriott), April, 541
- Metropolitan Forensic Anthropology Team (MFAT) studies in identification: 1. race and sex assessment by discriminant function analysis of the postcranial skeleton (Taylor, DiBennardo, Linares, Goldman, and DeForest), July, 798
- Pattern of intersecting fractures and direction of fire (Dixon), April, 651
- Phosphoglucomutase types in blood and hair roots taken from post-transfusion subjects (Lawton and Kerr), April, 445
- Species identification of blood and saliva stains by enzyme-linked immunoassay (ELISA) using monoclonal antibody (Fletcher, Dolton, and Harris-Smith), Jan., 67
- Spontaneous births into toilets (Mitchell and Davis), April, 591
- Stomach rupture by infusion pump and Foley catheter (Donoghue and Lifschultz), Oct., 1225
- Stud guns revisited: report of a suicide and literature review (Weedn and Mittleman), April, 670
- Sudden infant death syndrome: Measurement of total and specific serum immunoglobulin E (IgE) (Mirchandani, Mirchandani, and House), April, 425
- Suicide by the use of a chain saw (Segeberg-Kontinen), Oct., 1249
- Symmetrical hypopigmentation of the nipples secondary to trauma (Rao and Penneys), July, 938
- Tissue concentrations at autopsy in infants and children receiving therapeutic digoxin (Hastreiter and van der Horst), Jan., 139
- Unusual autoerotic death: asphyxia with an abdominal ligature (Thibault, Spencer, Bishop, and Hibler), April, 679

Pencils

- Effects of writing instruments on handwriting details (Hilton), Jan., 80

Pens

- Effects of writing instruments on handwriting details (Hilton), Jan., 80

Phenotyping—see Genetic typing**Phentermine**

- Fatality involving phentermine (Levine, Caplan, and Dixon), Oct., 1242

Phenyl-2-propanone

- Clandestine approach to the synthesis of phenyl-2-propanone from phenylpropenes (Dal Cason, Angelos, and Raney), Oct., 1187

Phosphatases

- Erythrocyte acid phosphatase in human hair root sheaths (Kimes, Tahir, and Stolorow), Jan., 64

Phosphoglucomutase

- Phosphoglucomutase types in blood and hair roots taken from post-transfusion subjects (Lawton and Kerr), April, 445

- Simultaneous electrophoretic analysis of esterase D and phosphoglucomutase subtyping in fresh blood and in dried bloodstains (Adamo and Kobilinsky), April, 436

Photocopiers

- Fraudulent transposition of original signatures by office machine copiers (Carney), Oct., 1209

Photography

- Laser and fiber optic photographic analysis of single-edge paper striations (Cain), Oct., 1105

- Photographic techniques of concern in metric bite mark analysis (Krauss), April, 633

Physical anthropology

- Age estimation from the rib by phase analysis: white males (İşcan, Loth, and Wright), Oct., 1094

- Clarifying the role of forensic anthropologists in death investigation (Sauer and Simson), Oct., 1081

- Discriminant function sexing of the tibia (İşcan and Miller-Shaivitz), Oct., 1087

- Effects of burning on human bone microstructure: a preliminary study (Bradtmiller and Buikstra), April, 535

- Estimating the date of bone remains: a multivariate study (Castellano, Villanueva, and von Frenckel), April, 527

- Human remains recovered from a shark's stomach in South Carolina (Rathbun and Rathbun), Jan., 269

- Method of matching skulls with photographic portraits using landmarks and measurements of the dentition (McKenna, Jablonski, and Fearnhead), July, 787

- Metropolitan Forensic Anthropology Team (MFAT) studies in identification: 1. race and sex assessment by discriminant function analysis of the postcranial skeleton (Taylor, DiBennardo, Linares, Goldman, and DeForest), July, 798

- Metropolitan Forensic Anthropology Team (MFAT) case studies in identification: 2. identification of a Vietnamese trophy skull (Taylor, Roh, and Goodman), Oct., 1253

Plaster

Casting, another means of identification (McGraw), Oct., 1212

Pneumothorax

Bullet-shaped chest tube tip: potential pitfall in diagnosis (Messmer and Wadsworth), Jan., 340

Poisons

Toxicologic studies in a fatal overdose of 2,4-D, mecoprop, and dicamba (Fraser, Isner, and Perry), Oct., 1237

Police

Suggested guidelines for the use of forensic hypnosis techniques in police investigations (Timm), July, 865

Polymerization retardants

Super Glue®, a modified technique for the development of latent fingerprints (Olenik), July, 881

Postmortem examinations

Estimating the postmortem interval in big game animals (Edge), Oct., 1144

Identification of a murder victim using a comparison of the postmortem and antemortem dental records (Rudnick), Jan., 349

Printing equipment

Identification of wrinkled and charred counterfeit currency offset printing plate by infrared examination (Moon), April, 644

Promethazine

Liquid chromatographic analysis of promethazine and its major metabolites in human postmortem material (Allender and Archer), April, 515

Psychiatry

Anonymous letter writer—a psychological profile (Casey-Owens), July, 816

Antisocial personality—diagnosis of moral judgment? (Weinstock and Nair), April, 557

Art of forensic psychiatry: a montage of murder cases (Smith), Jan., 209

Comparison of partner and solo arsonists (Molnar, Keitner, and Harwood), April, 574

Competence to proceed: a functional and context-determinative decision (Bennett and Sullwold), Oct., 1119

Deaf sex offender (Harry), Oct., 1140

Diagnostic and Statistical Manual—III (Garmise, Guggenheim, and Schuster), Oct., 1127

Family violence (Tanay), July, 820

Impact of a change in commitment procedures on the character of involuntary psychiatric patients (Levinson, Briggs, and Ratner), April, 566

Management of forensic psychiatry patients who refuse medication—two scenarios (Rodenhauser and Heller), Jan., 237

Neuropsychological performance of sexual assaulters and pedophiles (Scott, Cole, McKay, Golden, and Liggett), Oct., 1114

Nonemergency forensic psychiatric house calls (Casals-Ariet and Bluestone), July, 831

Psychosocial dynamics of child abuse (Felthous), Jan., 219

Treating psychiatrist as forensic evaluator (Miller), July, 825

Psychiatry—Continued

Unusual autoerotic death: asphyxia with an abdominal ligature (Thibault, Spencer, Bishop, and Hibler), April, 679

Q-R**Questioned documents**

Alzheimer's disease and its effect on handwriting (Behrendt), Jan., 87

Analysis of the identification value of defects in IBM Selectric® typewriters (Miller), April, 624

Anonymous letter writer—a psychological profile (Casey-Owens), July, 816

Counterfeits: three groups, one source (Morton), Jan., 310

Examination of magnetic ink character recognition impressions (Anthony), Jan., 303

Fraudulent transposition of original signatures by office machine copiers (Carney), Oct., 1209

Identification of wrinkled and charred counterfeit currency offset printing plate by infrared examination (Moon), April, 644

Intersecting lines as a means of fraud detection (Taylor), Jan., 92

Laser and fiber optic photographic analysis of single-edge paper striations (Cain), Oct., 1105

Microanalysis of painted manuscripts and of colored archeological materials by Raman laser microprobe (Guineau), April, 471

Passport examination (Levinson), April, 628

Radioimmunoassay

Comparative study of postmortem barbiturates, methadone, and morphine in vitreous humor, blood, and tissue (Ziminski, Wemyss, Bidanset, Manning, and Lukash), July, 803

Raman spectroscopy—see Spectroscopic analysis

Reproductions

Simple method for studying the surface of fired bullets: varnishes for replicas (Torre and Giacobini), July, 915

Rivers

Motion of floating and submerged objects in the Chattahoochee River, Atlanta, GA (Dilen), Oct., 1027

Rope

Identification of a rope by means of a physical match between the cut ends (Laux), Oct., 1246

S**Saliva**

Detection of drugs in saliva of impaired drivers (Peel, Perrigo, and Mikhael), Jan., 185

Sampling

Sampling errors in the determination of cocaine in seized drugs (Kratochvil and Brown), April, 493

Semen

Medicolegal study of enzymic fluorometry of choline in human semen (Takatori, Tomii, and Terazawa), April, 618

Sex determination—see Human identification

Sexual asphyxia—see Asphyxia

Sexual assault—see Criminal sex offenses

Sharks

Human remains recovered from a shark's stomach in South Carolina (Rathbun and Rathbun), Jan., 269

Signatures

Fraudulent transposition of original signatures by office machine copiers (Carney), Oct., 1209

Silicone rubber

New silicone rubber casting material designed for forensic science application (Ojena), Jan., 317

Skin

Symmetrical hypopigmentation of the nipples secondary to trauma (Rao and Penneys), July, 938

Snow

New improved technique for casting impressions in snow (Ojena), Jan., 322

Spectrophotometry—see Spectroscopic analysis

Spectroscopic analysis—see also Chemical analysis

Analytical study of illicit lysergide (McDonald, Martin, Woods, Baker, and Gough), Jan., 120

Determination of carboxyhemoglobin in the presence of other blood hemoglobin pigments by visible spectrophotometry (Siek and Rieders), Jan., 39

Microanalysis of painted manuscripts and of colored archeological materials by Raman laser microprobe (Guineau), April, 471

Synthetic cocaine impurities (Cooper and Allen), Oct., 1045

Spermatozoa

HLA typing of dried sperm (Regueiro and Arnaiz-Villena), April, 430

Starvation

Forensic science approach to a starved child (Davis, Rao, and Valdes-Dapena), April, 663

Strangulation

Case of strangulation with postmortem amputation of the penis (Ito, Sato, Sato, and Yada), July, 934

Striations

Laser and fiber optic photographic analysis of single-edge paper striations (Cain), Oct., 1105

Stud guns

Stud guns revisited: report of a suicide and literature review (Weedn and Mittleman), April, 670

Sudden infant death syndrome

Sudden infant death syndrome: measurement of total and specific serum immunoglobulin E(IgE) (Mirchandani, Mirchandani, and House), April, 425

Sulcide

Analysis of metronidazole in human serum: an unusual overdose case (Siegel and Weisz), April, 639

Stud guns revisited: report of a suicide and literature review (Weedn and Mittleman), April, 670

Suicide by the use of a chain saw (Segeberg-Kontinen), Oct., 1249

Suicide reconstruction by glue-lift of gunshot residue (Basu, Ferriss, and Horn), July, 843

Suicide—Continued

Toxicologic studies in a fatal overdose of 2,4-D, mecoprop, and dicamba (Fraser, Isner, and Perry), Oct., 1237

Superimposition

Method of matching skulls with photographic portraits using landmarks and measurements of the dentition (McKenna, Jablonski, and Fearnhead), July, 787

T

Teeth—see Dentition

Television systems

Video system for the visualization of gunpowder patterns (Åbrink, Andersson, and Maehly), Oct., 1223

Testimony

Presentation of bite mark evidence resulting in the acquittal of a man after serving seven years in prison for murder (Karazulas), Jan., 355

Treating psychiatrist as forensic evaluator (Miller), July, 825

Tetrahydrocannabinol

High performance liquid chromatography-immunoassay of Δ^9 -tetrahydrocannabinol and its metabolites in urine (Peat, Deyman, and Johnson), Jan., 110

Thin-layer chromatography—see Chromatographic analysis

Thyroglobulin

Detection of thyroglobulin in bloodstains as an aid in the diagnosis of mechanical asphyxia (Katsumata, Sato, Oya, and Yada), Jan., 299

Tissues (biology)

Postmortem stability of barbiturates in blood and tissues (Levine, Blanke, and Valentour), Jan., 131

Tissue distribution of lidocaine after fatal accidental injection (Poklis, Mackell, and Tucker), Oct., 1229

Toolmarks

New silicone rubber casting material designed for forensic science application (Ojena), Jan., 317

Toxicology

Analysis of metronidazole in human serum: an unusual overdose case (Siegel and Weisz), April, 639

Analytical study of illicit lysergide (McDonald, Martin, Woods, Baker, and Gough), Jan., 120

Clandestine approach to the synthesis of phenyl-2-propanone from phenylpropenes (Dal Cason, Angelos, and Raney), Oct., 1187

Comparative study of postmortem barbiturates, methadone, and morphine in vitreous humor, blood, and tissue (Ziminski, Wemyss, Bidanset, Manning, and Lukash), July, 803

Constituents of *Cannabis sativa* L. XXIV: the potency of confiscated marijuana, hashish, and hash oil over a ten-year period (EISOHly, Holley, Lewis, Russell, and Turner), April, 500

Detection of drugs in saliva of impaired drivers (Peel, Perrigo, and Mikhael), Jan., 185

Toxicology—Continued

- Detection of methamphetamine and amphetamine in a single human hair by gas chromatography/chemical ionization mass spectrometry (Suzuki, Hattori, and Asano), April, 611
- Differentiation of side chain positional isomers of amphetamine (Soine, Thomas, Shark, Scott, and Agee), Jan., 177
- Efficiency of capillary column gas chromatography in separating lysergic acid diethylamide (LSD) and lysergic acid methylpropylamide (LAMP) (Stafford, Nichols, and Anderson), Jan., 291
- Ethanol, marijuana, and other drug use in 600 drivers killed in single-vehicle crashes in North Carolina, 1978-1981 (Mason and McBay), Oct., 987
- Fatality involving phentermine (Levine, Caplan, and Dixon), Oct., 1242
- Fungal cerebritis from intravenous drug abuse (Wetli, Weiss, Cleary, and Gyori), Jan., 260
- High performance liquid chromatography-immunoassay of Δ^9 -tetrahydrocannabinol and its metabolites in urine (Peat, Deyman, and Johnson), Jan., 110
- Hydromorphone and ethanol fatality (Levine, Saady, Fierro, and Valentour), April, 655
- Identification of methoxy-*N*-methylamphetamines (Clark), Oct., 1056
- Illicitly imported heroin products: some physical and chemical features indicative of their origin (O'Neil, Baker, and Gough), July, 899
- Improved recovery and stability of ethanol in automated headspace analysis (Christmore, Kelly, and Doshier), Oct., 1038
- Liquid chromatographic analysis of promethazine and its major metabolites in human postmortem material (Allender and Archer), April, 515
- Postmortem methemoglobin concentrations and their significance (Reay, Insalaco, and Eisele), Oct., 1160
- Postmortem stability of barbiturates in blood and tissues (Levine, Blanke, and Valentour), Jan., 131
- Problems in using high performance liquid chromatography for drug analysis (Lurie), April, 607
- Sampling errors in the determination of cocaine in seized drugs (Kratochvil and Brown), April, 493
- Synthetic cocaine impurities (Cooper and Allen), Oct., 1045
- Tissue concentrations at autopsy in infants and children receiving therapeutic digoxin (Hastreiter and van der Horst), Jan., 139
- Tissue distribution of lidocaine after fatal accidental injection (Poklis, Mackell, and Tucker), Oct., 1229
- Toxicologic studies in a fatal overdose of 2,4-D, mecoprop, and dicamba (Fraser, Isner, and Perry), Oct., 1237

Trauma—see Injuries**Trinitrotoluene**

- Picogram analyses of explosive residues using the thermal energy analyzer (TEA®) (Fine, Yu, Goff, Bender, and Reutter), July, 732

Typewriters

- Analysis of the identification value of defects in IBM Selectric® typewriters (Miller), April, 624

Urine

- Development of a radial gel diffusion technique for the identification of urea in urine stains (Bedrosian, Stolorow, and Tahir), April, 601
- High performance liquid chromatography-immunoassay of Δ^9 -tetrahydrocannabinol and its metabolites in urine (Peat, Deyman, and Johnson), Jan., 110

Vapors

- High-speed extraction of accelerants from arson debris (Higgins, Higgins, Oakes, and Braverman), July, 874

Violence

- Family violence (Tanay), July, 820

Vitreous humor

- Comparative study of postmortem barbiturates, methadone, and morphine in vitreous humor, blood, and tissue (Ziminski, Wemyss, Bidanset, Manning, and Lukash), July, 803
- Effect of chilling, freezing, and rewarming on the postmortem chemistry of vitreous humor (Bray), April, 404
- Eye as a chemical indicator of environmental temperature at the time of death (Bray), April, 396
- Hypothermia: autopsy findings and vitreous glucose (Coe), April, 389

Witnesses

- Competence to proceed: a functional and context-determinative decision (Bennett and Sullwold), Oct., 1119
- Role of the forensic scientist in the application of chemical tests for alcohol in traffic law enforcement (Biasotti), Oct., 1164

Wound ballistics

- Atypical gunshot wounds of entrance: an empirical study (Donoghue, Kalekar, Richmond, and Teas), April, 379
- Determination of direction of fire from graze gunshot wounds of internal organs (Dixon), Jan., 331
- Exit keyhole lesion and direction of fire in a gunshot wound of the skull (Dixon), Jan., 336
- Forensic science problems associated with the accelerator cartridge (Thompson, Gluba, and Johnson), Jan., 162
- Pattern of intersecting fractures and direction of fire (Dixon), April, 651

X-ray analyses

- Computer-aided X-ray diffraction identification of crystalline mixtures in forensic science investigations (Fischer and Goebel), Jan., 155