

Journal of Forensic Sciences

Subject Index to Volume 32

1987

A

Accidents

Analysis of toxic deaths, 1982 to 1985, Pima County, Arizona (Froede, Byers, Wolfgang, Froede, Jones, and Henry), Nov., 1676

Embolization of cotton pledgets following insertion of porcine cardiac valve bioprostheses (Lifschultz, Donoghue, Leestma, and Boade), Nov., 1796

Scene investigation, identification, and victim examination following the accident of Galaxy 203: disaster preplanning does work (McCarty, Sohn, Ritzlin, and Gauthier), July, 983

Age determination—see Human identification

Aircraft

Correlations of injury, toxicology, and cause of death to Galaxy Flight 203 crash site (Solomone, Sohn, Ritzlin, Gauthier, and McCarty), Sept., 1403

Scene investigation, identification, and victim examination following the accident of Galaxy 203: disaster preplanning does work (McCarty, Sohn, Ritzlin, and Gauthier), July, 983

Alcohol

Drugs and alcohol in hypothermia and hyperthermia related deaths: a retrospective study (Kortelainen), Nov., 1704

Effect of hypothermia on breath-alcohol analysis (Fox and Hayward), March, 320

Evaluation of the Abbott TD₅₀-radiative energy attenuation (REA) ethanol assay in a study of 1105 forensic whole blood specimens (Caplan and Levine), Jan., 55

In vitro accuracy and precision studies comparing direct and delayed analysis of the ethanol content of vapor (Goldberger and Caplan), Jan., 48

Lack of observable intoxication in human with high plasma alcohol concentrations (Sullivan, Hauptman, and Bronstein), Nov., 1660

Nitrogen narcosis and alcohol consumption—a scuba diving fatality (Michalodimitrakakis and Patsalis), July, 1095

Aliases—see Criminal aliases

Amino acids

Quality control for amino acid visualization reagents (Nielson), March, 370

Ammunition—see Ballistics

Amnesia

Triazolam, handwriting, and amnesic states: two cases (Boatwright), July, 1118

Angel, John Lawrence

John Lawrence Angel, Ph.D., 1915–1986, a tribute and remembrance (İşcan), Sept., 1484

Animal abuse

Psychosocial aspects of selecting animal species for physical abuse (Felthous and Kellert), Nov., 1713

Antigen systems

Determination of ABO blood groups by radioimmunoassay using ¹²⁵I-Protein A (Fukushima, Segawa, Ota, Yonemura, and Hasekura), March, 531

Lewis typing of human bloodstains by enzyme-linked immunosorbent assay (ELISA) using monoclonal anti-Le^a and anti-Le^b (Takatori, Tustsubuchi, and Terazawa), July, 900

Method for the determination of MN antigens in dried blood (Levkov), March, 357

Arson

Comparison of automotive gasolines using capillary gas chromatography I: Comparison methodology (Mann), May, 606

Comparison of automotive gasolines using capillary gas chromatography II: Limitations of automotive gasoline comparisons in casework (Mann), May, 616

Fluorescence of petroleum products II. Three-dimensional fluorescence plots of gasolines (Alexander, Mashak, Kapitan, and Siegel), Jan., 72

Asphyxia

Age and ossification of the hyoid bone: forensic implications (O'Halloran and Lundy), Nov., 1655

Automobiles

Motions of passenger cars in low-speed falls over embankments (Le Fevre), March, 467

Automobile seat belts

Seat belts and human rights: an appraisal (Greenberg), Jan., 158

Autopsy—see Postmortem examinations

B**Ballistics**—see also Wound ballistics

Analysis of gunshot primer residue collection swabs using flameless atomic absorption spectrophotometry: a reexamination of extraction and instrument procedures (Koons, Havekost, and Peters), July, 846

Automated gunshot residue particle search and characterization (Tillman), Jan., 62

Bullet hole identification kit: case report (Bergman and Springer), May, 802

Cranial fracture patterns and estimate of direction from low velocity gunshot wounds (Smith, Berryman, and Lahren), Sept., 1416

Determination of shooting distance from deformation of the recovered bullet (Fackler, Woychesin, Malinowski, Dougherty, and Loveday), July, 1131

Dithizone as a microcrystalline test for the confirmation of projectile lead wipes (McGinnis, Thornton, and Espinoza), Jan., 242

Effects of deformed shot on shotgun pellet dispersion (Thornton and Rios), March, 522

Estimation of a bullet's diameter using the bullet hole identification kit (BTK) (Bergman, Even, Agron, Klein, and Springer), July, 866

Fatal wound from an unusual military projectile: potential dangers of live military ordnance to the autopsy pathologist (Clark), May, 793

Gunshot wound with asphalt related pseudo-soot, pseudo-tattooing, and pseudo-scorching (Zaki and Hanzlick), July, 1136

Observations and statistics relating to suicide weapons (Stone), May, 711

Observations of high velocity blood spatter on adjacent objects (Pex and Vaughan), Nov., 1587

Study of inorganic residues around entrances and exit projectile orifices (Villanueva, Hernandez-Cueto, Lorente, Garcia-Quiles, and Rodrigo), July, 1079

Suicidal contact gunshot wounds to the head with .38 special Glaser safety slug ammunition (Jones, Reyna, Sperry, and Hock), Nov., 1604

Suicide by air rifle and shotgun (Cohle, Pickelman, Connolly, and Bauserman), July, 1113

Unique missile in a homicide victim: the Brenneke shotgun slug (Rao and Rao), Sept., 1435

Unusual pattern of gunshot injury linking two homicides to the same assailant (Frazer), Jan., 262

Use of scanning electron microscopy and energy dispersive X-ray analysis (SEM-EDXA) in identification of foreign material on bullets (DiMaio, Dana, Taylor, and Ondrusek), Jan., 38

Ballpoint pens—see Pens

Bears

Case with bear facts (Murad and Boddy), Nov., 1819

Benzodiazepines

Triazolam, handwriting, and amnestic states: two cases (Boatwright), July, 1118

Biofeedback

Effect of biofeedback on the detection of deception (Timm), May, 736

Bite marks

Computerized axial tomography as an aid in bite mark analysis: a case report (Farrell, Rawson, Steffens, and Stephens), Jan., 266

Measurement of arch widths in a human population: relation of anticipated bite marks (Barsley and Lancaster), July, 975

Not all bite marks are associated with abuse, sexual activities, or homicides: a case study of a self-inflicted bite mark (Warnick, Biedrzycki, and Russanow), May, 788

Transillumination in bite mark evidence (Dorion), May, 690

Ultraviolet photography: bite marks on human skin and suggested technique for the exposure and development of reflective ultraviolet photography (West, Billings, and Frair), Sept., 1204

Blood

Determination of ABO blood groups by radioimmunoassay using ¹²⁵I-Protein A (Fukushima, Segawa, Ota, Yonemura, and Hasekura), March, 531

Evaluation of the Abbott TD_x-radiative energy attenuation (REA) ethanol assay in a study of 1105 forensic whole blood specimens (Caplan and Levine), Jan., 55

Method for the determination of MN antigens in dried blood (Levkov), March, 357

New method for typing haptoglobin in bloodstains using immobilized allo A lectin (Harada, Umetsu, Ikeda, and Suzuki), July, 1062

Observations of high velocity bloodspatter on adjacent objects (Pex and Vaughan), Nov., 1587

Unconjugated morphine in blood by radioimmunoassay and gas chromatography/mass spectrometry (Spiehler and Brown), July, 906

Blood groups—see Genetic typing, blood, and antigen systems

Body fluids

Comparison of laser and ultraviolet techniques used in the detection of body secretions (Auvdel), March, 326

Evidence that "vaginal peptidase" is a bacterial gene product (Blake, Cook, and Bashinski), July, 888

Book reviews

Abortion, Medicine, and the Law by Butler and Walbert (Moennessens), Sept., 1473

Closed Head Injury, Its Pathology and Legal Medicine by Crompton (Hirsch), May, 819

Criminal Interrogations and Confessions (Third Edition) by Inbau et al. (Pitluck), Sept., 1479

Electrophoresis, Theory, Techniques, and Biochemical and Clinical Applications by Andrews (Monforte), Sept., 1472

Forensic Osteology, Advances in the Identification of Human Remains by Reichs (Brooks), Sept., 1481

- Forensic Psychiatry and Psychology: Perspectives and Standards for Interdisciplinary Practice* by Curran et al. (Perr), Sept., 1475
- Forensic Science Progress. Vol. 1* by Maehly and Williams (Stone), July, 1141
- HLA Techniques for Blood Bankers* by Mallory et al. (Huestis), May, 818
- Investigating Arson* by Bennett and Hess (Ton-tarski), Nov., 1827
- Lindow Man: The Body in the Bog* by Stead et al. (Hinkes), Nov., 1829
- Medicolegal Postmortems—Guidelines for Crime Investigation* by Parihk (Tate), March, 569
- The Murderer and His Victim* by Macdonald (Drucker), Sept., 1483
- The Personal Identification of Living Individuals* by Roger (Principe), Sept., 1478
- Pharmacokinetics and Pharmacodynamics of Psychoactive Drugs* by Barnett and Chrang (Poklis), March, 567
- Plant Drug Analysis* by Wagner (Spiehler), Jan., 287
- Practical Homicide Investigation. Tactics, Procedures and Forensic Techniques* by Geberth (Reyna), Sept., 1477
- Reasonable Doubt* by Hurt (Wecht), Jan., 288
- Sexual Exploitation of Patients by Health Professionals* by Burgess and Hartman (Smith), Sept., 1471
- Taylor's Principles and Practice of Medical Jurisprudence* by Mant (Wiecking), Jan., 285

Brain

- Complications of cervical manipulation: a case report of fatal brainstem infarct with review of the mechanisms and predisposing factors (Jentzen, Amatuzio, and Peterson), July, 1089

Breath-alcohol testing devices

- Breathalyzer® accuracy in actual law enforcement practice: a comparison of blood and breath-alcohol results in Wisconsin drivers (Harding and Field), Sept., 1235
- Effect of hypothermia on breath-alcohol analysis (Fox and Hayward), March, 320
- In vitro accuracy and precision studies comparing direct and delayed analysis of the ethanol content of vapor (Goldberger and Caplan), Jan., 48

Bullets—see Ballistics

C

Cadmium

- Photoluminescent enhancement of ninhydrin developed fingerprints by metal complexation: structural studies of complexes formed between Ruhemann's purple and Group IIb metal salts (Lennard, Margot, Sterns, and Warrenner), May, 597

Caffeine

- Caffeine toxicity: a case of child abuse by drug ingestion (Morrow), Nov., 1801

Capillary gas chromatography—see Chromatographic analysis

Carbon monoxide

- Deaths caused by carbon monoxide poisoning in

- an open environment (outdoors) (DiMaio and Dana), Nov., 1794

Cardiovascular system

- Demonstration of esophageal varices postmortem by gastroesophageal phlebography (Segerberg-Konttinen), May, 703
- Myocardial infarction in pregnancy (Sperry), Sept., 1664
- Natural death while driving (Öström and Eriksson), July, 988

Carpipramine

- Carpipramine related fatality (Fraser and Isner), July, 1103

Castings

- Aluminum template for casting agarose gels (Budowle and Mudd), May, 1987
- Improved technique for the visualization of footprint impressions in the insoles of athletic shoes (Laskowski), July, 1075
- Postmortem identification of the edentulous deceased: denture tissue surface anatomy (Jacob and Shala), May, 698

Central nervous system

- Complications of cervical manipulation: a case report of fatal brainstem infarct with review of the mechanisms and predisposing factors (Jentzen, Amatuzio, and Peterson), July, 1089

Central pontine myelinolysis

- Central pontine myelinolysis: a complication of hyponatremia or of therapeutic intervention (Haibach, Ansbacher, and Dix), March, 444

Chemical analysis

- Analysis of dihydrocodeine in urine using Sep-Pak® C₁₈ cartridges for sample cleanup (Nakamura, Stall, and Meeks), March, 535
- Automation of gunshot scanning electron microscopy energy dispersive X-ray analysis (White and Owens), Nov., 1595
- Comparison of immunodiffusion and latex agglutination tests for the identification of white-tailed deer tissues (Bey and Loken), May, 673
- Enhanced quantitative analytical capability with a nuclear magnetic resonance (NMR) spectrometer by use of an external integrating recorder (Hatzis and Rothchild), March, 396
- Methamphetamine from ephedrine: I. Chloroephedrines and aziridines (Allen and Kiser), July, 953
- Unconjugated morphine in blood by radioimmunoassay and gas chromatography/mass spectrometry (Spiehler and Brown), July, 906
- Use of scanning electron microscopy and energy dispersive X-ray analysis (SEM-EDXA) in identification of foreign material on bullets (DiMaio, Dana, Taylor, and Ondrusek), Jan., 38

Child abuse

- Caffeine toxicity: a case of child abuse by drug ingestion (Morrow), Nov., 1801

Chloroform

- Double homicide as a result of chloroform poisoning (McGee, Jejuriar, and VanBerkom), Sept., 1453

Choke holds

- Deaths allegedly caused by the use of "choke holds" (shime-waza), March, 419

Choline

Evaluation of an enzymatic choline determination for the identification of semen in casework samples (Noppinger, Morrison, Jones, and Hopkins), July, 1069

Chromatographic analysis—see also Chemical analysis

Analysis of nail varnishes by high performance liquid chromatography (Tebbett, Tulloch, and Knutsen), May, 778

Analysis of 2-hydroxyimipramine in an imipramine-related fatality (Fraser, Susnik, and Isner), March, 543

Carpipramine related fatality (Fraser and Isner), July, 1103

Comparison of automotive gasolines using capillary gas chromatography I: Comparison methodology (Mann), May, 606

Comparison of automotive gasolines using capillary gas chromatography II: Limitations of automotive gasoline comparisons in casework (Mann), May, 616

Comparison of drug retention indices determined on packed, wide bore capillary and narrow bore capillary columns (Japp, Gill, and Osselton), Nov., 1574

Death caused by ingestion of endosulfan (Bernardelli and Gennari), July, 1109

Improved determination of nitrotoluenes using liquid chromatography with photolytically assisted thermal energy analysis (LC-PAT) (Selvaka, Tontarski, and Strobel), July, 941

Minimizing analytical interferences from digoxin-like immunoreactive substances (DLIS) in cases of digoxin toxicity (Seccombe, Pudek, and Humphries), May, 650

On the relative aging of ink—the solvent extraction technique (Cantu and Prough), Sept., 1151

Separation of lysergide (LSD) from related ergot alkaloids and its identification in forensic science casework samples (Japp, Gill, and Osselton), July, 933

Simple approach to the interlaboratory transfer of drug retention indices determined by temperature programmed capillary gas chromatography (Stowell and Wilson), Sept., 1214

Classifications

Classification of office copy machines from physical characteristics (James), Sept., 1293

System for handwriting classification (Taylor and Chandler), Nov., 1775

Cocaine

Cocaine and sudden natural death (Mittleman and Wetli), Jan., 11

Quantitative determination of cocaine and heroin by Fourier transform infrared spectrophotometry (Raverby), Jan., 20

Collision research

Motions of passenger cars in low-speed falls over embankments (Le Fevre), March, 467

Colors (materials)

Fiber data collection for forensic scientists—collection and examination methods (Laing, Hartshorne, Cook, and Robinson), March, 364

Comparative analysis

Breathalyzer® accuracy in actual law enforcement practice: a comparison of blood and breath-alcohol results in Wisconsin drivers (Harding and Field), Sept., 1235

Comparison of automotive gasolines using capillary gas chromatography I: Comparison methodology (Mann), May, 606

Comparison of automotive gasolines using capillary gas chromatography II: Limitations of automotive gasoline comparisons in casework (Mann), May, 616

Image processing and statistical analysis as an aid in the comparison of typewritten impressions (Noblett), July, 963

Patterns: their storage, retrieval, and comparison (Lewis), Sept., 1281

Confidentiality—see Doctor-patient privilege

Confined Space-Hypoxia Syndrome

Confined Space-Hypoxia Syndrome (Zugibe, Costello, Breithaupt, Zappi, and Allyn), March, 554

Correction fluid

Examination of correction fluid obliterations (Waggoner), March, 539

Crania—see Musculoskeletal system

Criminal aliases

Self- and official report of name variation among male offenders (Harry), Nov., 1724

Criminalistics

Analysis of gunshot primer residue collection swabs using flameless atomic absorption spectrophotometry: a reexamination of extraction and instrument procedures (Koons, Havekost, and Peters), July, 846

Analysis of nail varnishes by high performance liquid chromatography (Tebbett, Tulloch, and Knutsen), May, 778

Automated gunshot residue particle search and characterization (Tillman), Jan., 62

Breathalyzer® accuracy in actual law enforcement practice: a comparison of blood and breath-alcohol results in Wisconsin drivers (Harding and Field), Sept., 1235

Bullet hole identification kit: case report (Bergman and Springer), May, 802

Comparison of automotive gasolines using capillary gas chromatography I: Comparison methodology (Mann), May, 606

Comparison of automotive gasolines using capillary gas chromatography II: Limitations of automotive gasoline comparisons in casework (Mann), May, 616

Determination of shooting distance from deformation of the recovered bullet (Fackler, Woychesin, Malinowski, Dougherty, and Loveday), July, 1131

Double homicide as a result of chloroform poisoning (McGee, Jejuri, and VanBerkom), Sept., 1453

Effect of biofeedback on the detection of deception (Timm), May, 736

Effect of hypothermia on breath-alcohol analysis (Fox and Hayward), March, 320

- Enzyme-linked immunosorbent assay (ELISA) for human semen identification based on a biotinylated monoclonal antibody to a seminal vesicle-specific antigen (Herr and Woodward), March, 346
- Estimation of a bullet's diameter using the bullet hole identification kit (BTK) (Bergman, Even, Agron, Klein, and Springer), July, 866
- Evaluation of textile fiber evidence: a review (Bressee), March, 510
- Evidence that "vaginal peptidase" is a bacterial gene product (Blake, Cook, and Bashinski), July, 888
- Fluorescence of petroleum products II. Three-dimensional fluorescence plots of gasolines (Alexander, Mashak, Kapitan, and Siegel), Jan., 72
- Forensic science applications of diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS): III. Direct analysis of polymeric foams (Suzuki and Gresham), March, 377
- Identification of serial homicide victims in the "Green River Murder" investigation (Haglund, Reay, and Snow), Nov., 1666
- Identification of the cadaver remains of Josef Mengele (Helmer), Nov., 1622
- Improved technique for the visualization of footprint impressions in the insoles of athletic shoes (Laskowski), July, 1075
- Investigation of gunshot residues by means of Auger electron spectroscopy (Hellmiss, Lichtenberg, and Weiss), May, 74
- Isoelectric focusing patterns of some mammalian keratins (Carracedo, Prieto, Concheiro, and Estefanía), Jan., 93
- Justifiable homicide: a study of the application of nonculpable deadly force in Cuyahoga County (Cleveland), Ohio, 1958-1982 (Challener, Adelson, and Rushforth), Sept., 1389
- Multiple deaths from argon contamination of hospital oxygen supply (Smith), July, 1098
- Nitro-benzofurazanyl ethers—a new series of fluorogenic fingerprint reagents (Almog, Zeichner, Shifrina, and Scharf), May, 585
- Observations and statistics relating to suicide weapons (Stone), May, 711
- Observations of high velocity blood spatter on adjacent objects (Pex and Vaughan), Nov., 1587
- Photoluminescent enhancement of ninhydrin developed fingerprints by metal complexation: structural studies of complexes formed between Ruhemann's purple and Group IIb metal salts (Lennard, Margot, Sterns, and Warrenner), May, 597
- Physician assistant as forensic investigator (Wright and Hirsch), July, 1059
- Police custody: deaths and medical attention (Segest), Nov., 1694
- Primary hyperparathyroidism, hypercalcemia, paranoid delusions, homicide, and attempted murder (Brown, Fischman, and Showalter), Sept., 1460
- Rapid screening technique for the detection of spermatozoa (Fraysier), March, 527
- Reagents for chemical development of latent fingerprints: vicinal triketones—their reaction with amino acids and with latent fingerprints on paper (Almog), Nov., 1565
- Secondary transfer of human scalp hair (Gaudette and Tassarolo), Sept., 1241
- Simple trace evidence trap for the collection of vacuum sweepings (Petraco), Sept., 1422
- Study of inorganic residues around entrances and exit projectile orifices (Villanueva, Hernandez-Cueto, Lorente, Garcia-Quiles, and Rodrigo), July, 1079
- Suicide disguised as murder: a dimension of Munchausen syndrome (McDowell), Jan., 254
- Suicide far from home: the concept of transjurisdictional suicide (Hanzlick and Ross), Jan., 189
- Unique missile in a homicide victim: the Brenneke shotgun slug (Rao and Rao), Sept., 1435
- Use of scanning electron microscopy and energy dispersive X-ray analysis (SEM-EDXA) in identification of foreign material on bullets (DiMaio, Dana, Taylor, and Ondrusek), Jan., 38
- Uses and effects of forensic science in the adjudication of felony cases (Peterson, Ryan, Houlden, and Mihajlovic), Nov., 1730
- Validation of police officer recruit candidates' self-reported drug use (Ostrov and Cavanaugh), March, 496
- Criminal justice system**—see Jurisprudence
- Criminal sex offenses**
- Evidence that "vaginal peptidase" is a bacterial gene product (Blake, Cook, and Bashinski), July, 888
- Persistence of vaginal spermatozoa as assessed by routine cervicovaginal (Pap) smears (Randall), May, 678
- Cross-sectioning**
- New method for cross-sectioning single fibers (Barna and Stoeffler), May, 761
- Crystallography**
- Dithizone as a microcrystalline test for the confirmation of projectile lead wipes (McGinnis, Thornton, and Espinoza), Jan., 242
- Cytochemistry**
- Histochemical demonstration of methamphetamine by immunocytochemistry (Ishiyama, Mukai, Yoshii, and Suyama), May, 658
- Histochemical demonstration of phenobarbital by immunocytochemistry (Ishiyama, Mukaida, Tanabe, Kaiho, and Ueyama), Sept., 1221

D

Death

- Carpipramine related fatality (Fraser and Isner), July, 1103
- Cocaine and sudden natural death (Mittleman and Wetli), Jan., 11
- Confined Space-Hypoxia Syndrome (Zugibe, Costello, Breithaupt, Zappi, and Allyn), March, 554
- Death caused by ingestion of endosulfan (Bernardelli and Gennari), July, 1109
- Deaths allegedly caused by the use of "choke holds" (shime-waza), March, 419

Death—(cont.)

- Drugs and alcohol in hypothermia and hyperthermia related deaths: a retrospective study (Kortelainen), Nov., 1704
- Estimating time since death using plant roots and stems (Willey and Heilman), Sept., 1264
- Ingestion of isobutyl nitrite, a recreational chemical of abuse causing fatal methemoglobinemia (O'Toole, Robbins, and Dixon), Nov., 1811
- Massive metoprolol ingestion associated with a fatality—a case report (Riker, Wright, Matusiak, and de Tuscan), Sept., 1447
- Maternal death associated with intravenous methylphenidate (Ritalin®) and pentazocine (Talwin®) abuse (Lundquest, Young, and Edland), May, 798
- Medicolegal aspects of necrotizing fasciitis of the neck (Sperry and McFeeley), Jan., 273
- Multiple deaths from argon contamination of hospital oxygen supply (Smith), July, 1098
- Natural death while driving (Öström and Eriksson), July, 988
- Police custody: deaths and medical attention (Sege), Nov., 1694

Decomposition

- Estimating time since death using plant roots and stems (Willey and Heilman), Sept., 1264
- Missouri's lakes and the disposal of homicide victims (Dix), May, 806
- Postmortem findings of the victims of the Jonestown tragedy (Thompson, Manders, and Cowan), March, 433

Deer

- Comparison of immunodiffusion and latex agglutination tests for the identification of white-tailed deer tissues (Bey and Loken), May, 673

Demography

- Analysis of toxic deaths, 1982 to 1985, Pima County, Arizona (Froede, Byers, Wolfgang, Froede, Jones, and Henry), Nov., 1676
- Distributions of genetic markers in United States populations: I. Blood group and secretor systems (Gaensslen, Bell, and Lee), July, 1016
- Distributions of genetic markers in United States populations: II. Isoenzyme systems (Gaensslen, Bell, and Lee), Sept., 1348
- Distributions of genetic markers in United States populations: III. Serum group systems and hemoglobin variants (Gaensslen, Bell, and Lee), Nov., 1754

Density (mass/volume)

- Estimation of the absolute density of glass following the sink/float technique (Kahane and Thornton), Jan., 87

Dentition

- Measurement of arch widths in a human population: relation of anticipated bite marks (Barsley and Lancaster), July, 975
- Police custody: deaths and medical attention (Sege), Nov., 1694

Deviant sexual behavior

- Man in the mask (Zugibe, Costello, and Breithaupt), May, 1987

Digoxin

- Minimizing analytical interferences from digoxin-like immunoreactive substances (DLIS) in cases of digoxin toxicity (Seccombe, Pudek, and Humphries), May, 650

Dihydrocodeine

- Analysis of dihydrocodeine in urine using Sep-Pak® C₁₈ cartridges for sample cleanup (Nakamura, Stall, and Meeks), March, 535

Discharging

- Discharging the violent psychiatric inpatient (Travin and Bluestone), July, 999

Disopyramide

- Fatal disopyramide intoxication from suicidal/accidental overdose (Sathyavagiswaran), Nov., 1813

Dithizone

- Dithizone as a microcrystalline test for the confirmation of projectile lead wipes (McGinnis, Thornton, and Espinoza), Jan., 242

Diving

- Nitrogen narcosis and alcohol consumption—a scuba diving fatality (Michalodimitrakis and Patsalis), July, 1095

Doctor-patient privilege

- Relationship of court clinics to correctional mental health services: Opportunities for cooperation and potential sources of conflict (Rosner), Jan., 217

Drops (liquid)

- Observations of high velocity bloodspatter on adjacent objects (Pex and Vaughan), Nov., 1587

Drug identification

- Analysis of dihydrocodeine in urine using Sep-Pak® C₁₈ cartridges for sample cleanup (Nakamura, Stall, and Meeks), March, 535
- Validation of police officer recruit candidates' self-reported drug use (Ostrov and Cavanaugh), March, 496

Drug retention indices

- Comparison of drug retention indices determined on packed, wide bore capillary and narrow bore capillary columns (Japp, Gill, and Osselton), Nov., 1574

- Simple approach to the interlaboratory transfer of drug retention indices determined by temperature programmed capillary gas chromatography (Stowell and Wilson), Sept., 1214

Drugs—see Toxicology and specific headings**Dust**

- Guide to the rapid screening, identification, and comparison of synthetic fibers in dust samples (Petraco), May, 1987

E**Edentulous deceased**

- Postmortem identification of the edentulous deceased: denture tissue surface anatomy (Jacob and Shala), May, 698

Editorials

- Cost-effective drug testing (McBay and Hudson), May, 575

- Conflicts and challenges for the medical examiner (Noguchi), July, 829
- Essential commitment for a forensic scientist (Frank), Jan., 5
- Guest editorial (Stahl), March, 301
- Malpractice—a defendant's perspective (Jarboe), Jan., 7
- Science and the law (Schroeder), Sept., 1149
- Education**
- Physician assistant as forensic investigator (Wright and Hirsch), July, 1059
- Electron impact mass spectroscopy**—see Spectroscopic analysis
- Electrophoresis**
- Electrophoresis reliability: I. The contaminant issue (Budowle and Allen), Nov., 1537
- Glyoxalase I typing and phosphoglucomutase-I subtyping of a single hair (Gamble, Budowle, and Terrell), Sept., 1175
- Method for routinely producing high resolution black-and-white journal quality photographs of electrophoretic gels (Alexander, Reeder, and Budowle), Sept., 1331
- Paternity testing in a kidnapping case (Noppinger and Ginsberg), March, 561
- Histologic detection of fat emboli (Davison and Cohle), Sept., 1426
- Endosulfan**
- Death caused by ingestion of endosulfan (Bernardelli and Gennari), July, 1109
- Energy dispersive X-ray analysis**—see X-ray analysis
- Engineering**
- Motions of passenger cars in low-speed falls over embankments (Le Fevre), March, 467
- Restoration of stamp marks on steel components by etching and magnetic techniques (Turley), May, 640
- Enzyme immunoassay**—see Immunoassay
- Enzyme-linked immunosorbent assay**
- Detection of Le^a substance in saliva stains by enzyme-lined immunosorbent assay (ELISA) using anti-gum Arabic serum (Ogata, Nakasono, Iwasaki, Kubo, Fukae, Suyama, and Narita), Nov., 1551
- Ethanol**—see Alcohol
- Explosives**
- Improved determination of nitrotoluenes using liquid chromatography with photolytically assisted thermal energy analysis (LC-PAT) (Selvaka, Tontarski, and Strobel), July, 941
- Extraction**
- Critical evaluation of current ink dating techniques (Brunelle and Cantu), Nov., 1522
- Determining the relative age of ballpoint inks using a single-solvent extraction technique (Brunelle, Breedlove, and Midkiff), Nov., 1511

F

Facial reconstruction

- Lateral craniographic method of facial reconstruction (George), Sept., 1305

Fasciitis

- Medicolegal aspects of necrotizing fasciitis of the neck (Sperry and McFeeley), Jan., 273

Fibers

- Evaluation of textile fiber evidence: a review (Breeze), March, 510
- Fiber data collection for forensic scientists—collection and examination methods (Laing, Hartshorne, Cook, and Robinson), March, 364
- New method for cross-sectioning single fibers (Barna and Stoeffler), May, 761

Field kits

- Bullet hole identification kit: case report (Bergman and Springer), May, 802

Fingerprints

- Nitro-benzofurazanyl ethers—a new series of fluorogenic fingerprint reagents (Almog, Zeichner, Shifrina, and Scharf), May, 585
- Photoluminescent enhancement of ninhydrin developed fingerprints by metal complexation: structural studies of complexes formed between Ruhemann's purple and Group IIb metal salts (Lennard, Margot, Sterns, and Warrenner), May, 597
- Quality control for amino acid visualization reagents (Nielson), March, 370
- Reagents for chemical development of latent fingerprints: vicinal triketones—their reaction with amino acids and with latent fingerprints on paper (Almog), Nov., 1565
- Systematic study of epidermal ridge minutiae (Stoney and Thornton), Sept., 1182

Flameless atomic absorption spectrophotometry—see Spectroscopic analysis**Fluorescence**—see Luminescence**Footprints**

- Improved technique for the visualization of footprint impressions in the insoles of athletic shoes (Laskowski), July, 1075

Forensic science

- Aluminum template for casting agarose gels (Budowle and Mudd), May, 784
- Analysis of nail varnishes by high performance liquid chromatography (Tebbett, Tulloch, and Knutsen), May, 778
- Automation of gunshot scanning electron microscopy energy dispersive X-ray analysis (White and Owens), Nov., 1595
- Characterization of small quantities of luminescent invisible detection materials using the Docuspec TM/1 microspectrophotometer (Springer and Zeichner), Jan., 248
- Contribution to the discussion of probabilities and human hair comparisons (Aitken and Robertson), May, 684
- Distributions of genetic markers in United States populations: I. Blood Group and secretor systems (Gaensslen, Bell, and Lee), July, 1016
- Distributions of genetic markers in United States populations: II. Isoenzyme systems (Gaensslen, Bell, and Lee), Sept., 1348
- Distributions of genetic markers in United States populations: III. Serum group systems and he-

Forensic science—(cont.)

- moglobin variants (Gaensslen, Bell, and Lee), Nov., 1754
- Dithizone as a microcrystalline test for the confirmation of projectile lead wipes (McGinnis, Thornton, and Espinoza), Jan., 242
- Effects of deformed shot on shotgun pellet dispersion (Thornton and Rios), March, 522
- Electrophoresis reliability: I. The contaminant issue (Budowle and Allen), Nov., 1537
- Estimation of the absolute density of glass following the sink/float technique (Kahane and Thornton), Jan., 87
- Evaluation of an enzymatic choline determination for the identification of semen in casework samples (Noppinger, Morrison, Jones, and Hopkins), July, 1069
- Fiber data collection for forensic scientists—collection and examination methods (Laing, Hartshorne, Cook, and Robinson), March, 364
- Glyoxalase I typing and phosphoglucomutase-1 subtyping of a single hair (Gamble, Budowle, and Terrell), Sept., 1175
- Guide to the rapid screening, identification, and comparison of synthetic fibers in dust samples (Petraco), May, 1987
- Improved determination of nitrotoluenes using liquid chromatography with photolytically assisted thermal energy analysis (LC-PAT) (Selvaka, Tontarski, and Strobel), July, 941
- Method for routinely producing high resolution black-and-white journal quality photographs of electrophoretic gels (Alexander, Reeder, and Budowle), Sept., 1331
- New method for cross-sectioning single fibers (Barna and Stoeffler), May, 761
- New method for typing haptoglobin in bloodstains using immobilized allo A lectin (Harada, Umetsu, Ikeda, and Suzuki), July, 1062
- Patterns: their storage, retrieval, and comparison (Lewis), Sept., 1281
- Physician assistant as forensic investigator (Wright and Hirsch), July, 1059
- Progressive desialidation of human transferrin (Blake), Sept., 1342
- Quality control for amino acid visualization reagents (Nielson), March, 370
- Systematic study of epidermal ridge minutiae (Stoney and Thornton), Sept., 1182
- Voice stress evaluators and lie detection (Hollien, Geison, and Hicks), March, 405
- Forgery**
- Line quality—historic and contemporary views (Hilton), Jan., 118
- Fraud**
- Fraudulent photocopy of a promissory note (Osborn), Jan., 282

G

- Gas chromatography—see** Chromatographic analysis
- Gas chromatography/mass spectrometry—see** Chemical analysis

Gases

- Multiple deaths from argon contamination of hospital oxygen supply (Smith), July, 1098

Gasline

- Comparison of automotive gasolines using capillary gas chromatography I: Comparison methodology (Mann), May, 606
- Comparison of automotive gasolines using capillary gas chromatography II: Limitations of automotive gasoline comparisons in casework (Mann), May, 616
- Fluorescence of petroleum products II. Three-dimensional fluorescence plots of gasolines (Alexander, Mashak, Kapitan, and Siegel), Jan., 72

Genetic typing

- Case of paternity testing influenced by the silent allele of Rh erythrocyte groups (Ota, Yonemura, Fukushima, Hasekura, Ishimoto, Mizutani, and Yamada), Nov., 1806
- Distributions of genetic markers in United States populations: I. Blood group and secretor systems (Gaensslen, Bell, and Lee), July, 1016
- Distributions of genetic markers in United States populations: II. Isoenzyme systems (Gaensslen, Bell, and Lee), Sept., 1348
- Distributions of genetic markers in United States populations: III. Serum group systems and hemoglobin variants (Gaensslen, Bell, and Lee), Nov., 1754
- Lewis typing of human bloodstains by enzyme-linked immunosorbent assay (ELISA) using monoclonal anti-Le² and anti-Le^b (Takatori Tustsubuchi, and Terazawa), July, 900
- Method for the determination of MN antigens in dried blood (Levkov), March, 357
- Paternity testing in a kidnapping case (Noppinger and Ginsberg), March, 561
- Progressive desialidation of human transferrin (Blake), Sept., 1342
- Typing of urine in the ABO and Lewis systems (Kotowski), July, 1065
- Use of separator isoelectric focusing in micro-ultrathin polyacrylamide gels in the characterization of some polymorphic proteins of forensic science significance (Alonso and Gascó), Nov., 1558

Glass

- Estimation of the absolute density of glass following the sink/float technique (Kahane and Thornton), Jan., 87

Gunshot residues

- Analysis of gunshot primer residue collection swabs using flameless atomic absorption spectrophotometry: a reexamination of extraction and instrument procedures (Koons, Havekost, and Peters), July, 846
- Automated gunshot residue particle search and characterization (Tillman), Jan., 62
- Automation of gunshot scanning electron microscopy energy dispersive X-ray analysis (White and Owens), Nov., 1595
- Investigation of gunshot residues by means of Auger electron spectroscopy (Hellmiss, Lichtenberg, and Weiss), May, 74
- Study of inorganic residues around entrances and

exit projectile orifices (Villanueva, Hernandez-Cueto, Lorente, Garcia-Quiles, and Rodrigo), July, 1079

Gunshot wounds—see Wound ballistics

H

Hair

Contribution to the discussion of probabilities and human hair comparisons (Aitken and Robertson), May, 684

Glyoxalase I typing and phosphoglucose mutase-1 subtyping of a single hair (Gamble, Budowle, and Terrell), Sept., 1175

Isoelectric focusing patterns of some mammalian keratins (Carracedo, Prieto, Concheiro, and Estefanía), Jan., 93

Secondary transfer of human scalp hair (Gaudette and Tessarolo), Sept., 1241

Handwriting

Examination of the Josef Mengele handwriting (Epstein), Jan., 100

Identification of the handwriting of Josef Mengele (Crown), Jan., 110

Line quality—historic and contemporary views (Hilton), Jan., 118

Recognition and identification of multiple authorship (Gencavage), Jan., 130

System for handwriting classification (Taylor and Chandler), Nov., 1775

Triazolam, handwriting, and amnesic states: two cases (Boatwright), July, 1118

Haptoglobin

New method for typing haptoglobin in bloodstains using immobilized allo A lectin (Harada, Umetsu, Ikeda, and Suzuki), July, 1062

Head hair—see Hair

Heroin

Quantitative determination of cocaine and heroin by Fourier transform infrared spectrophotometry (Raverby), Jan., 20

High performance liquid chromatography—see Chromatographic analysis

Histology

Histochemical demonstration of methamphetamine by immunocytochemistry (Ishiyama, Mukaia, Yoshii, and Suyama), May, 658

Historical background

Forensic science evidence in the investigation of the World War II activities of Dr. Kurt Waldheim (Crown), Nov., 1782

Homicide

Double homicide as a result of chloroform poisoning (McGee, Jejuri, and VanBerkom), Sept., 1453

Homicide by insulin administration (Haibach, Dix, and Shah), Jan., 208

Homicidal behavior in schizophrenics (Tanay), Sept., 1382

Identification of serial homicide victims in the "Green River Murder" investigation (Haglund, Reay, and Snow), Nov., 1666

Justifiable homicide: a study of the application of nonculpable deadly force in Cuyahoga County (Cleveland), Ohio, 1958–1982 (Challener,

Adelson, and Rushforth), Sept., 1389

Man in the mask (Zugibe, Costello, and Breithaupt), May, 1987

Missouri's lakes and the disposal of homicide victims (Dix), May, 806

Primary hyperparathyroidism, hypercalcemia, paranoid delusions, homicide, and attempted murder (Brown, Fischman, and Showalter), Sept., 1460

Pseudo-political terrorism (Tanay), Jan., 192

Unusual pattern of gunshot injury linking two homicides to the same assailant (Frazer), Jan., 262

Human behavior

Mariel refugee and the New York criminal court (Harmon, Rosner, and Weiderlight), May, 725

Psychosocial aspects of selecting animal species for physical abuse (Felthous and Kellert), Nov., 1713

Human identification

Case with bear facts (Murad and Boddy), Nov., 1819

Comparative radiographic study of human and animal long bone patterns (Chilvarquer, Katz, Glassman, Prihoda, and Cottone), Nov., 1645

Correlations of injury, toxicology, and cause of death to Galaxy Flight 203 crash site (Solomone, Sohn, Ritzlin, Gauthier, and McCarty), Sept., 1403

Estimating age at death from immature human skeletons: an overview (Ubelaker), Sept., 1254

Identification of serial homicide victims in the "Green River Murder" investigation (Haglund, Reay, and Snow), Nov., 1666

Identification of skulls by video superimposition (Iten), Jan., 173

Identification of the cadaver remains of Josef Mengele (Helmer), Nov., 1622

Maxillary suture obliteration: aging the human skeleton based on intact for fragmentary maxilla (Mann, Symes, and Bass), Jan., 148

Postmortem findings of the victims of the Jonestown tragedy (Thompson, Manders, and Cowan), March, 433

Postmortem identification of the edentulous deceased: denture tissue surface anatomy (Jacob and Shala), May, 698

Racial variation in the sternal extremity of the rib and its effect on age determination (İşcan, Loth, and Wright), March, 452

Scene investigation, identification, and victim examination following the accident of Galaxy 203: disaster preplanning does work (McCarty, Sohn, Ritzlin, and Gauthier), July, 983

Hyperparathyroidism

Primary hyperparathyroidism, hypercalcemia, paranoid delusions, homicide, and attempted murder (Brown, Fischman, and Showalter), Sept., 1460

Hyperthermia

Drugs and alcohol in hypothermia and hyperthermia related deaths: a retrospective study (Kortelainen), Nov., 1704

Hyponatremia

Central pontine myelinolysis: a complication of

Hyponatremia—(cont.)

hyponatremia or of therapeutic intervention (Haibach, Ansbacher, and Dix), March, 444

Hypothermia

Drugs and alcohol in hypothermia and hyperthermia related deaths: a retrospective study (Kortelainen), Nov., 1704

Effect of hypothermia on breath-alcohol analysis (Fox and Hayward), March, 320

I-K**Identification systems**

Estimation of a bullet's diameter using the bullet hole identification kit (BTK) (Bergman, Even, Agron, Klein, and Springer), July, 866

Restoration of stamp marks on steel components by etching and magnetic techniques (Turley), May, 640

System for handwriting classification (Taylor and Chandler), Nov., 1775

Imipramine

Analysis of 2-hydroxyimipramine in an imipramine-related fatality (Fraser, Susnik, Isner), March, 543

Immunoassay

Enzyme-linked immunosorbent assay (ELISA) for human semen identification based on a biotinylated monoclonal antibody to a seminal vesicle-specific antigen (Herr and Woodward), March, 346

Immunocytochemistry—see Cytochemistry

Immunology

Detection of Le^a substance in saliva stains by enzyme-linked immunosorbent assay (ELISA) using anti-gum Arabic serum (Ogata, Nakasono, Iwasaki, Kubo, Fukae, Suyama, and Narita), Nov., 1551

Individuality

Systematic study of epidermal ridge minutiae (Stoney and Thornton), Sept., 1182

Information systems

Patterns: their storage, retrieval, and comparison (Lewis), Sept., 1281

Injuries

Histologic detection of fat emboli (Davison and Cohle), Sept., 1426

Injury patterns in motor vehicle fatalities (Horowitz, Siegel, Flaster, and Maldonado), Jan., 167

Seat belts and human rights: an appraisal (Greenberg), Jan., 158

Inks

Critical evaluation of current ink dating techniques (Brunelle and Cantu), Nov., 1522

Cutaneous ink sign: a tipoff to suicide or suicide notes (Hanzlick and Ross), March, 565

Determining the relative age of ballpoint inks using a single-solvent extraction technique (Brunelle, Breedlove, and Midkiff), Nov., 1511

On the relative aging of ink—the solvent extraction technique (Cantu and Prough), Sept., 1151

Insulin

Homicide by insulin administration (Haibach, Dix, and Shah), Jan., 208

Intoxication

Lack of observable intoxication in human with high plasma alcohol concentrations (Sullivan, Hauptman, and Bronstein), Nov., 1660

Isobutyl nitrite

Ingestion of isobutyl nitrite, a recreational chemical of abuse causing fatal methemoglobinemia (O'Toole, Robbins, and Dixon), Nov., 1811

Jurisprudence

Litigious paranoids and the legal system: the role of the forensic psychiatrist (Goldstein), July, 1009

Mental health and corrections: towards a working partnership (Harmon), Jan., 233

Models of mental health service delivery to correctional institutions (Maier and Miller), Jan., 225

Policy implications of private sector involvement in correctional services and programs (Johnson), Jan., 221

Psychiatrist's role in retrospective determination of suicide: an uncertain science (Goldstein), March, 489

Relationship of court clinics to correctional mental health services: opportunities for cooperation and potential sources of conflict (Rosner), Jan., 217

Self- and official report of name variation among male offenders (Harry), Nov., 1724

Treating psychiatrist as forensic evaluator in release decisions (Miller), March, 481

Uses and effects of forensic science in the adjudication of felony cases (Peterson, Ryan, Houlden, and Mihajlovic), Nov., 1730

Keratins

Isoelectric focusing patterns of some mammalian keratins (Carracedo, Prieto, Concheiro, and Estefanía), Jan., 93

L**Lasers**

Comparison of laser and ultraviolet techniques used in the detection of body secretions (Auvdel), March, 326

Law enforcement

Deaths allegedly caused by the use of "choke holds" (shime-waza), March, 419

Lead (metal)

Dithizone as a microcrystalline test for the confirmation of projectile lead wipes (McGinnis, Thornton, and Espinoza), Jan., 242

Study of inorganic residues around entrances and exit projectile orifices (Villanueva, Hernandez-Cueto, Lorente, Garcia-Quiles, and Rodrigo), July, 1079

Letters to the editor

Apology for name error in reference (Lipsinic), July, 843

Authors' response (Budowle and Murch), Nov., 1501

Author's response (Davis), May, 583

Author's response (Greenberg), Nov., 1496
 Author's response (Greenberg), Nov., 1497
 Authors' response (Kotowski and Grieve), May, 580
 Author's response (Ragsdale), July, 838
 Author's response (Rao), March, 313
 Author's response (Thornton), July, 837
 Author's response (Warrener), July, 842
 Authors' response (Wraxall and Stolorow), Nov., 1500
 Civil rightists attack psychosurgery (Gorman), March, 314
 Discussion of "a review of *Fatal Vision*" (Bryson and Garlo), March, 319
 Discussion of "estimating height and weight from size of footprints" (Kahane and Thornton), Jan., 9
 Discussion of "fractal surfaces as models of physical matches" (Gault), July, 836
 Discussion of "improved enhancement of ninhydrin developed fingerprints by cadmium complexation using low temperature photoluminescence techniques" (Menzel), July, 841
 Discussion of "patterned injury and its evidentiary value" (Tuthill), March, 312
 Discussion of "peer review in the courtroom" (Hanzlick), May, 581
 Discussion of "seat belts and human rights: an appraisal" (Patrick), Nov., 1497
 Discussion of "seat belts and human rights: an appraisal" (Vernberg and Jagger), Nov., 1495
 Discussion of "subtyping phosphoglucomutase-1 semen stains and bloodstains: a report on the method" (Garlo), Nov., 1500
 Discussion of "technical shortcomings of Doppler traffic radar" (Benson), Jan., 9
 Discussion of "the simultaneous separation of the enzymes glyoxalase I, esterase D, and phosphoglucomutase" (Murch, Kearney, and Budowle), Nov., 1498
 Discussion of "the use of microphotometry to characterize microscopic amounts of blood" (Clement), May, 580
 Discussion of "Winchester silvertip ammunition—a silvertip ammunition—a study in ordnance gelatin" (Fackler and Malinowski), July, 837
 Do we know the lethal dose of cocaine? (Smart and Anglin), March, 303
 Ethics—a forensic engineer's viewpoint (Wilkinson), Nov., 1507
 Further discussion of "patterned injury and its evidentiary value" (Tuthill), July, 844
 Identification strength scale (Dailey), March, 317
 Need for forensic technology innovation (Menzel), Nov., 1506
 Sacco and Vanzetti case (Starrs), March 318
 "The Trial of Lee Harvey Oswald" television program (Wecht), July, 844
 Training requirements and ethical responsibilities of forensic scientists performing ink dating examinations (Brunelle and Cantu), Nov., 1502
Lie detection
 Effect of biofeedback on the detection of deception (Timm), May, 736

Voice stress evaluators and lie detection (Hollien, Geison, and Hicks), March, 405

Litigation

Litigious paranoids and the legal system: the role of the forensic psychiatrist (Goldstein), July, 1009

Luminescence

Characterization of small quantities of luminescent invisible detection materials using the Docuspec TM/1 microspectrophotometer (Springer and Zeichner), Jan., 248

Fluorescence of petroleum products II. Three-dimensional fluorescence plots of gasolines (Alexander, Mashak, Kapitan, and Siegel), Jan., 72
 Nitro-benzofurazanyl ethers—a new series of fluorogenic fingerprint reagents (Almog, Zeichner, Shifrina, and Scharf), May, 585

Lysergic acid

Separation of lysergide (LSD) from related ergot alkaloids and its identification in forensic science casework samples (Japp, Gill, and Osseleton), July, 933

M

Marinel Boat Lift refugees

Marinel refugee and the New York criminal court (Harmon, Rosner, and Weiderlight), May, 725

Mass disasters—see Human identification

Matching

Fiber data collection for forensic scientists—collection and examination methods (Laing, Hartshorne, Cook, and Robinson), March, 364

Medical personnel

Background characteristics of judicious and injudicious prescribers in New Jersey (Vilensky, Steer, and Weikel), Jan., 201

Lack of observable intoxication in human with high plasma alcohol concentrations (Sullivan, Hauptma, and Bronstein), Nov., 1660

Physician assistant as forensic investigator (Wright and Hirsch), July, 1059

Josef Mengele

Examination of the Josef Mengele handwriting (Epstein), Jan., 100

Identification of the handwriting of Josef Mengele (Crown), Jan., 110

Mental illness

Discharging the violent psychiatric inpatient (Travin and Bluestone), July, 999

Homicidal behavior in schizophrenics (Tanay), Sept., 1382

Litigious paranoids and the legal system: the role of the forensic psychiatrist (Goldstein), July, 1009

Mental health and corrections: towards a working partnership (Harmon), Jan., 233

Models of mental health service delivery to correctional institutions (Maier and Miller), Jan., 225

Treating psychiatrist as forensic evaluator in release decisions (Miller), March, 481

Methamphetamine

Abuse of smoking methamphetamine mixed with tobacco: I. Inhalation efficiency and pyrolysis products of methamphetamine (Sekine and Nakahara), Sept., 1271

Histochemical demonstration of methamphetamine by immunocytochemistry (Ishiyama, Mukaia, Yoshii, and Suyama), May, 658

Methamphetamine from ephedrine: I. Chloroephedrines and aziridines (Allen and Kiser), July, 953

Methylphenidate

Maternal death associated with intravenous methylphenidate (Ritalin®) and pentazocine (Talwin®) abuse (Lundquest, Young, and Edland), May, 798

Metoprolol

Massive metoprolol ingestion associated with a fatality—a case report (Riker, Wright, Matusiak, and de Tuscan), Sept., 1447

Microcrystallography—see Crystallography

Microscopy

Automation of gunshot scanning electron microscopy energy dispersive X-ray analysis (White and Owens), Nov., 1595

Guide to the rapid screening, identification, and comparison of synthetic fibers in dust samples (Petraco), May, 1987

Rapid screening technique for the detection of spermatozoa (Fraysier), March, 527

Use of scanning electron microscopy and energy dispersive X-ray analysis (SEM-EDXA) in identification of foreign material on bullets (DiMaio, Dana, Taylor, and Ondrusek), Jan., 38

Microspectrophotometry—see Spectroscopic analysis

Morphine

Unconjugated morphine in blood by radioimmunoassay and gas chromatography/mass spectrometry (Spiehler and Brown), July, 906

Motor vehicle accidents

Injury patterns in motor vehicle fatalities (Horowitz, Siegel, Flaster, and Maldonado), Jan., 167

Motions of passenger cars in low-speed falls over embankments (Le Fevre), March, 467

Natural death while driving (Öström and Eriksson), July, 988

Multiple authorship

Recognition and identification of multiple authorship (Gencavage), Jan., 130

Munchausen syndrome

Suicide disguised as murder: a dimension of Munchausen syndrome (McDowell), Jan., 254

Musculoskeletal system

Age and ossification of the hyoid bone: forensic implications (O'Halloran and Lundy), Nov., 1655

Case with bear facts (Murad and Boddy), Nov., 1819

Comparative radiographic study of human and animal long bone patterns (Chilvarquer, Katz, Glassman, Prihoda, and Cottone), Nov., 1645

Cranial fracture patterns and estimate of direction from low velocity gunshot wounds (Smith, Berryman, and Lahren), Sept., 1416

Estimating age at death from immature human skeletons: an overview (Ubelaker), Sept., 1254

Identification of skulls by video superimposition (Iten), Jan., 173

Identification of the cadaver remains of Josef Mengele (Helmer), Nov., 1622

Maxillary suture obliteration: aging the human skeleton based on intact for fragmentary maxilla (Mann, Symes, and Bass), Jan., 148

Racial variation in the sternal extremity of the rib and its effect on age determination (İşcan, Loth, and Wright), March, 452

Mustard gas

Concentrations of mustard gas [bis(2-chloroethyl)sulfide] in the tissues of a victim of a vesicant exposure (Drasch, Kretschmer, Kauert, and von Meyer), Nov., 1788

Myocardial infarction

Myocardial infarction in pregnancy (Sperry), Sept., 1664

N-O**Nail varnishes**

Analysis of nail varnishes by high performance chromatography liquid (Tebbett, Tulloch, and Knutsen), May, 778

Necrotizing fasciitis of the neck—see Fasciitis

***N*-ethyl-1-phenylcyclohexylamine (PCE)**

Specificity of electron impact mass spectroscopy for the identification of *N*-ethyl-1-phenylcyclohexylamine (PCE) (Clark), July, 917

Ninhydrin

Photoluminescent enhancement of ninhydrin developed fingerprints by metal complexation: structural studies of complexes formed between Ruhemann's purple and Group IIb metal salts (Lennard, Margot, Sterns, and Warrenner), May, 597

Quality control for amino acid visualization reagents (Nielson), March, 370

Nitrogen narcosis

Nitrogen narcosis and alcohol consumption—a scuba diving fatality (Michalodimitrakakis and Patsalis), July, 1095

Nuclear magnetic resonance—see Chemical analysis

Obituary

John Lawrence Angel, Ph.D., 1915–1986, a tribute and remembrance (İşcan), Sept., 1484

Obliterations

Examination of correction fluid obliterations (Waggoner), March, 539

Odontology

Computerized axial tomography as an aid in bite mark analysis: a case report (Farrell, Rawson, Steffens, and Stephens), Jan., 266

Measurement of arch widths in a human population: relation of anticipated bite marks (Barsley and Lancaster), July, 975

- Not all bite marks are associated with abuse, sexual activities, or homicides: a case study of a self-inflicted bite mark (Warnick, Biedrzycki, and Russanow), May, 788
- Postmortem identification of the edentulous deceased: denture tissue surface anatomy (Jacob and Shala), May, 698
- Scene investigation, identification, and victim examination following the accident of Galaxy 203: disaster preplanning does work (McCarty, Sohn, Ritzlin, and Gauthier), July, 983
- Transillumination in bite mark evidence (Dorion), May, 690
- Ultraviolet photography: bite marks on human skin and suggested technique for the exposure and development of reflective ultraviolet photography (West, Billings, and Frair), Sept., 1204

P

Paper

- Nitro-benzofurazanyl ethers—a new series of fluorogenic fingerprint reagents (Almog, Zeichner, Shifrina, and Scharf), May, 585
- Reagents for chemical development of latent fingerprints: vicinal triketones—their reaction with amino acids and with latent fingerprints on paper (Almog), Nov., 1565

Paternity

- Case of paternity testing influenced by the silent allele of Rh erythrocyte groups (Ota, Yonemura, Fukushima, Hasekura, Ishimoto, Mizutani, and Yamada), Nov., 1806
- Paternity testing in a kidnapping case (Noppinger and Ginsberg), March, 561
- Use of separator isoelectric focusing in micro-ultrathin polyacrylamide gels in the characterization of some polymorphic proteins of forensic science significance (Alonso and Gascó), Nov., 1558

Pathology and biology

- Caffeine toxicity: a case of child abuse by drug ingestion (Morrow), Nov., 1801
- Carpipramine related fatality (Fraser and Isner), July, 1103
- Case of paternity testing influenced by the silent allele of Rh erythrocyte groups (Ota, Yonemura, Fukushima, Hasekura, Ishimoto, Mizutani, and Yamada), Nov., 1806
- Central pontine myelinolysis: a complication of hyponatremia or of therapeutic intervention (Haibach, Ansbacher, and Dix), March, 444
- Cocaine and sudden natural death (Mittleman and Wetli), Jan., 11
- Comparison of immunodiffusion and latex agglutination tests for the identification of white-tailed deer tissues (Bey and Loken), May, 673
- Comparison of laser and ultraviolet techniques used in the detection of body secretions (Auvdel), March, 326
- Complications of cervical manipulation: a case report of fatal brainstem infarct with review of the

- mechanisms and predisposing factors (Jentzen, Amatuzio, and Peterson), July, 1089
- Concentrations of mustard gas [bis(2-chloroethyl)sulfide] in the tissues of a victim of a vesicant exposure (Drasch, Kretschmer, Kauert, and von Meyer), Nov., 1788
- Confined Space-Hypoxia Syndrome (Zugibe, Costello, Breithaupt, Zappi, and Allyn), March, 554
- Correlations of injury, toxicology, and cause of death to Galaxy Flight 203 crash site (Solomone, Sohn, Ritzlin, Gauthier, and McCarty), Sept., 1403
- Cranial fracture patterns and estimate of direction from low velocity gunshot wounds (Smith, Berryman, and Lahren), Sept., 1416
- Cutaneous ink sign: a tipoff to suicide or suicide notes (Hanzlick and Ross), March, 565
- Deaths allegedly caused by the use of "choke holds" (shime-waza), March, 419
- Deaths caused by carbon monoxide poisoning in an open environment (outdoors) (DiMaio and Dana), Nov., 1794
- Demonstration of esophageal varices postmortem by gastroesophageal phlebography (Seegerberg-Kontinen), May, 703
- Detection of Le^a substance in saliva stains by enzyme-lined immunosorbent assay (ELISA) using anti-gum Arabic serum (Ogata, Nakasono, Iwasaki, Kubo, Fukae, Suyama, and Narita), Nov., 1551
- Determination of ABO blood groups by radioimmunoassay using ^{125}I -Protein A (Fukushima, Segawa, Ota, Yonemura, and Hasekura), March, 531
- Double homicide as a result of chloroform poisoning (McGee, Jejuri, and VanBerkom), Sept., 1453
- Drugs and alcohol in hypothermia and hyperthermia related deaths: a retrospective study (Kortelainen), Nov., 1704
- Embolization of cotton pledgets following insertion of porcine cardiac valve bioprostheses (Lifschultz, Donoghue, Leestma, and Boade), Nov., 1796
- Estimating time since death using plant roots and stems (Willey and Heilman), Sept., 1264
- Fatal disopyramide intoxication from suicidal/accidental overdose (Sathyavagiswaran), Nov., 1813
- Fatal intoxication by tocainide (Sperry, Wohlenberg, and Standefer), Sept., 1440
- Fatal wound from an unusual military projectile: potential dangers of live military ordnance to the autopsy pathologist (Clark), May, 793
- Gunshot wound with asphalt related pseudo-soot, pseudo-tattooing, and pseudo-scorching (Zaki and Hanzlick), July, 1136
- Histochemical demonstration of phenobarbital by immunocytochemistry (Ishiyama, Mukaida, Tanabe, Kaiho, and Ueyama), Sept., 1221
- Histologic detection of fat emboli (Davison and Cohle), Sept., 1426

Pathology and biology—(cont.)

- Injury patterns in motor vehicle fatalities (Horowitz, Siegel, Flaster, and Maldonado), Jan., 167
- Lack of observable intoxication in human with high plasma alcohol concentrations (Sullivan, Hauptman, and Bronstein), Nov., 1660
- Lewis typing and human bloodstains by enzyme-linked immunosorbent assay (ELISA) using monoclonal anti-Le^a and anti-Le^b (Takatori, Tustsubuchi, and Terazawa), July, 900
- Man in the mask (Zugibe, Costello, and Breithaupt), May, 1987
- Medicolegal aspects of necrotizing fasciitis of the neck (Sperry and McFeeley), Jan., 273
- Method for the determination of MN antigens in dried blood (Levkov), March, 357
- Minimizing analytical interferences from digoxin-like immunoreactive substances (DLIS) in cases of digoxin toxicity (Seccombe, Pudek, and Humphries), May, 650
- Missouri's lakes and the disposal of homicide victims (Dix), May, 806
- Myocardial infarction in pregnancy (Sperry), Sept., 1646
- Natural death while driving (Öström and Eriksson), July, 988
- Nitrogen narcosis and alcohol consumption—a scuba diving fatality (Michalodimitrakis and Patsalis), July, 1095
- Not all bite marks are associated with abuse, sexual activities, or homicides: a case study of a self-inflicted bite mark (Warnick, Biedrzycki, and Russanow), May, 788
- Paternity testing in a kidnapping case (Noppinger and Ginsberg), March, 561
- Persistence of vaginal spermatozoa as assessed by routine cervicovaginal (Pap) smears (Randall), May, 678
- Postmortem findings of the victims of the Jonestown tragedy (Thompson, Manders, and Cowan), March, 433
- Preservation of human tissue immersed for five years in fresh water of known temperature (Cotton, Aufderheide, and Goldschmidt), July, 1125
- Presumptive screening of suspected semen stain in situ using cotton swabs and bromochloroindolyl phosphate to detect prostatic acid phosphatase activity (Baechtel, Brown, and Terrell), July, 880
- Primary hyperparathyroidism, hypercalcemia, paranoid delusions, homicide, and attempted murder (Brown, Fischman, and Showalter), Sept., 1460
- Rhabdomyolysis following violent behavior and coma (Reddy and Kornblum), March, 550
- Seat belts and human rights: an appraisal (Greenberg), Jan., 158
- Suicidal contact gunshot wounds to the head with .38 special Glaser safety slug ammunition (Jones, Reyna, Sperry, and Hock), Nov., 1604
- Suicide by air rifle and shotgun (Cohle, Pickelman, Connolly, and Bauserman), July, 1113

Typing of urine in the ABO and Lewis systems (Kotowski), July, 1065

Unusual pattern of gunshot injury linking two homicides to the same assailant (Frazer), Jan., 262

Use of separator isoelectric focusing in micro-ultrathin polyacrylamide gels in the characterization of some polymorphic proteins of forensic science significance (Alonso and Gascó), Nov., 1558

Vitreous humor chemistry: the use of potassium concentration for the prediction of the postmortem interval (Stephens and Richards), March, 503

Patterns

Patterns: their storage, retrieval, and comparison (Lewis), Sept., 1281

Pens

Line quality—historic and contemporary views (Hilton), Jan., 118

Pentazocine

Maternal death associated with intravenous methylphenidate (Ritalin®) and pentazocine (Talwin®) abuse (Lundquest, Young, and Edland), May, 798

Peptidases

Evidence that "vaginal peptidase" is a bacterial gene product (Blake, Cook, and Bashinski), July, 888

Petroleum products

Fluorescence of petroleum products II. Three-dimensional fluorescence plots of gasolines (Alexander, Mashak, Kapitan, and Siegel), Jan., 72

Phase contrast microscopy—see Microscopy

Phencyclidine

Rhabdomyolysis following violent behavior and coma (Reddy and Kornblum), March, 550

Phenobarbital

Histochemical demonstration of phenobarbital by immunocytochemistry (Ishiyama, Mukaida, Tanabe, Kaiho, and Ueyama), Sept., 1221

Phenotyping—see Genetic typing

Phosphatases

Presumptive screening of suspected semen stain in situ using cotton swabs and bromochloroindolyl phosphate to detect prostatic acid phosphatase activity (Baechtel, Brown, and Terrell), July, 880

Phosphoglucumutase

Glyoxalase I typing and phosphoglucumutase-I subtyping of a single hair (Gambel, Budowle, and Terrell), Sept., 1175

Photocopiers

Classification of office copy machines from physical characteristics (James), Sept., 1293

Fraudulent photocopy of a promissory note (Osborn), Jan., 282

Photography

Forensic science evidence in the investigation of the World War II activities of Dr. Kurt Waldheim (Crown), Nov., 1782

Method for routinely producing high resolution black-and-white journal quality photographs of electrophoretic gels (Alexander, Reeder, and Budowle), Sept., 1331

Ultraviolet photography: bite marks on human skin and suggested technique for the exposure and development of reflective ultraviolet photography (West, Billings, and Frair), Sept., 1204

Physical anthropology

Age and ossification of the hyoid bone: forensic implications (O'Halloran and Lundy), Nov., 1655

Case with bear facts (Murad and Boddy), Nov., 1819

Comparative radiographic study of human and animal long bone patterns (Chilvarquer, Katz, Glassman, Prihoda, and Cottone), Nov., 1645

Estimating age at death from immature human skeletons: an overview (Ubelaker), Sept., 1254

Identification of skulls by video superimposition (Iten), Jan., 173

Lateral craniographic method of facial reconstruction (George), Sept., 1305

Maxillary suture obliteration: aging the human skeleton based on intact for fragmentary maxilla (Mann, Symes, and Bass), Jan., 148

Racial variation in the sternal extremity of the rib and its effect on age determination (Işcan, Loth, and Wright), March, 452

Physical evidence

Forensic science evidence in the investigation of the World War II activities of Dr. Kurt Waldheim (Crown), Nov., 1782

Uses and effects of forensic science in the adjudication of felony cases (Peterson, Ryan, Houlden, and Mihajlovic), Nov., 1730

Physicians—see Medical personnel

Plants (botany)

Estimating time since death using plant roots and stems (Willey and Heilman), Sept., 1264

Poisons

Fatal verapamil poisoning (Koepeke and McBay), Sept., 1431

Police

Police custody: deaths and medical attention (Se-gest), Nov., 1694

Validation of police officer recruit candidates' self-reported drug use (Ostrov and Cavanaugh), March, 496

Politics

Policy implications of private sector involvement in correctional services and programs (Johnson), Jan., 221

Pseudo-political terrorism (Tanay), Jan., 192

Polygraph—see Lie detection

Postmortem examinations

Correlations of injury, toxicology, and cause of death to Galaxy Flight 203 crash site (Solomone, Sohn, Ritzlin, Gauthier, and McCarty), Sept., 1403

Fatal wound from an unusual military projectile: potential dangers of live military ordnance to the autopsy pathologist (Clark), May, 793

Natural death while driving (Öström and Eriksson), July, 988

Postmortem interval

Missouri's lakes and the disposal of homicide victims (Dix), May, 806

Vitreous humor chemistry: the use of potassium concentration for the prediction of the postmortem interval (Stephens and Richards), March, 503

Pregnancy

Myocardial infarction in pregnancy (Sperry), Sept., 1664

Prescribers

Background characteristics of judicious and injudicious prescribers in New Jersey (Vilensky, Steer, and Weikel), Jan., 201

Printing equipment

Printwheel typescript variations caused by the manufacturing process (Behrendt and Muehlberger), May, 629

Prisons

Mental health and corrections: towards a working partnership (Harmon), Jan., 233

Models of mental health service delivery to correctional institutions (Maier and Miller), Jan., 225

Policy implications of private sector involvement in correctional services and programs (Johnson), Jan., 221

Prison psychiatry and professional responsibility (Smith), May, 717

Relationship of court clinics to correctional mental health services: opportunities for cooperation and potential sources of conflict (Rosner), Jan., 217

Self- and official report of name variation among male offenders (Harry), Nov., 1724

Privatization

Policy implications of private sector involvement in correctional services and programs (Johnson), Jan., 221

Probability

Contribution to the discussion of probabilities and human hair comparisons (Aitken and Robertson), May, 684

Professional responsibility

Prison psychiatry and professional responsibility (Smith), May, 717

Prosthetic devices

Embolization of cotton pledgets following insertion of porcine cardiac valve bioprostheses (Lifschultz, Donoghue, Leestma, and Boade), Nov., 1796

Psychiatry

Background characteristics of judicious and injudicious prescribers in New Jersey (Vilensky, Steer, and Weikel), Jan., 201

Discharging the violent psychiatric inpatient (Travin and Bluestone), July, 999

Homicidal behavior in schizophrenics (Tanay), Sept., 1382

Litigious paranoids and the legal system: the role of the forensic psychiatrist (Goldstein), July, 1009

Mariel refugee and the New York criminal court (Harmon, Rosner, and Weiderlight), May, 725

Mental health and corrections: towards a working partnership (Harmon), Jan., 233

Models of mental health service delivery to correctional institutions (Maier and Miller), Jan., 225

Psychiatry—(cont.)

- Prison psychiatry and professional responsibility (Smith), May, 717
- Pseudo-political terrorism (Tanay), Jan., 192
- Psychiatrist's role in retrospective determination of suicide: an uncertain science (Goldstein), March, 489
- Psychosocial aspects of selecting animal species for physical abuse (Felthous and Kellert), Nov., 1713
- Relationship of court clinics to correctional mental health services: opportunities for cooperation and potential sources of conflict (Rosner), Jan., 217
- Self- and official report of name variation among male offenders (Harry), Nov., 1724
- Treating psychiatrist as forensic evaluator in release decisions (Miller), March, 481

Pyrolysis

- Abuse of smoking methamphetamine mixed with tobacco: I. Inhalation efficiency and pyrolysis products of methamphetamine (Sekine and Nakahara), Sept., 1271

Q-R**Questioned documents**

- Characteristics of synchronous sequential signatures (Foley), Jan., 121
- Classification of office copy machines from physical characteristics (James), Sept., 1293
- Critical evaluation of current ink dating techniques (Brunelle and Cantu), Nov., 1522
- Determining the relative age of ballpoint inks using a single-solvent extraction technique (Brunelle, Breedlove, and Midkiff), Nov., 1511
- Examination of correction fluid obliterations (Waggoner), March, 539
- Examination of the Josef Mengele handwriting (Epstein), Jan., 100
- Forensic science evidence in the investigation of the World War II activities of Dr. Kurt Waldheim (Crown), Nov., 1782
- Fraudulent photocopy of a promissory note (Osborn), Jan., 282
- Identification of the handwriting of Josef Mengele (Crown), Jan., 110
- Image processing and statistical analysis as an aid in the comparison of typewritten impressions (Noblett), July, 963
- Individuality of toolmarks produced by a label maker used to write extortion notes (Mason and Grose), Jan., 137
- Line quality—historic and contemporary views (Hilton), Jan., 118
- On the relative aging of ink—the solvent extraction technique (Cantu and Prough), Sept., 1151
- Printwheel typescript variations caused by the manufacturing process (Behrendt and Muehlberger), May, 629
- Recognition and identification of multiple authorship (Gencavage), Jan., 130
- System for handwriting classification (Taylor and Chandler), Nov., 1775

- Triazolam, handwriting, and amnesic states: two cases (Boatwright), July, 1118
- Was the document reinserted in the typewriter? (Horan), Jan., 245

Race determination—see Human identification**Radioimmunoassay**

- Determination of ABO blood groups by radioimmunoassay using ^{125}I -Protein A (Fukushima, Segawa, Ota, Yonemura, and Hasekura), March, 531
- Minimizing analytical interferences from digoxin-like immunoreactive substances (DLIS) in cases of digoxin toxicity (Seccombe, Pudek, and Humphries), May, 650

- Unconjugated morphine in blood by radioimmunoassay and gas chromatography/mass spectrometry (Spiehler and Brown), July, 906

Radiology—see X-ray analysis**Rape—see Criminal sex offenses****Reagents**

- Nitro-benzofurazanyl ethers—a new series of fluorogenic fingerprint reagents (Almog, Zeichner, Shifrina, and Scharf), May, 585
- Reagents for chemical development of latent fingerprints: vicinal triketones—their reaction with amino acids and with latent fingerprints on paper (Almog), Nov., 1565

Reflectance

- Forensic science applications of diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS): III. Direct analysis of polymeric foams (Suzuki and Gresham), March, 377

Refractive index

- Estimation of the absolute density of glass following the sink/float technique (Kahane and Thornton), Jan., 87

Reliability

- Electrophoresis reliability: I. The contaminant issue (Budowle and Allen), Nov., 1537

Rhabdomyolysis

- Rhabdomyolysis following violent behavior and coma (Reddy and Kornblum), March, 550

Ruhemann's purple

- Photoluminescent enhancement of ninhydrin developed fingerprints by metal complexation: structural studies of complexes formed between Ruhemann's purple and Group IIb metal salts (Lennard, Margot, Sterns, and Warrener), May, 597

S**Saliva**

- Comparison of laser and ultraviolet techniques used in the detection of body secretions (Audel), March, 326
- Detection of Le^a substance in saliva stains by enzyme-lined immunosorbent assay (ELISA) using anti-gum Arabic serum (Ogata, Nakasono, Iwasaki, Kubo, Fukae, Suyama, and Narita), Nov., 1551

Scanning electron microscopy—see Microscopy

Screening procedures

Presumptive screening of suspected semen stain in situ using cotton swabs and bromochloroindolyl phosphate to detect prostatic acid phosphatase activity (Baechtel, Brown, and Terrell), July, 880

Validation of police officer recruit candidates' self-reported drug use (Ostrov and Cavanaugh), March, 496

Scuba diving—see Diving

Self-biting

Not all bite marks are associated with abuse, sexual activities, or homicides: a case study of a self-inflicted bite mark (Warnick, Biedrzycki, and Russanow), May, 788

Semen

Comparison of laser and ultraviolet techniques used in the detection of body secretions (Auvdel), March, 326

Enzyme-linked immunosorbent assay (ELISA) for human semen identification based on a biotinylated monoclonal antibody to a seminal vesicle-specific antigen (Herr and Woodward), March, 346

Evaluation of an enzymatic choline determination for the identification of semen in casework samples (Noppinger, Morrison, Jones, and Hopkins), July, 1069

Presumptive screening of suspected semen stain in situ using cotton swabs and bromochloroindolyl phosphate to detect prostatic acid phosphatase activity (Baechtel, Brown, and Terrell), July, 880

Sequence

Characteristics of synchronous sequential signatures (Foley), Jan., 121

Serology

Use of separator isoelectric focusing in micro-ultrathin polyacrylamide gels in the characterization of some polymorphic proteins of forensic science significance (Alonso and Gascó), Nov., 1558

Sex determination—see Human identification

Shotguns

Effects of deformed shot on shotgun pellet dispersion (Thornton and Rios), March, 522

Unique missile in a homicide victim: the Brenneke shotgun slug (Rao and Rao), Sept., 1435

Signatures

Characteristics of synchronous sequential signatures (Foley), Jan., 121

Fraudulent photocopy of a promissory note (Osborn), Jan., 282

Skeletons—see Musculoskeletal system

Skin

Ultraviolet photography: bite marks on human skin and suggested technique for the exposure and development of reflective ultraviolet photography (West, Billings, and Frair), Sept., 1204

Skulls—see Musculoskeletal system

Solvent extraction

Determining the relative age of ballpoint inks using a single-solvent extraction technique (Brunelle, Breedlove, and Midkiff), Nov., 1511

Spectrophotometry—see Spectroscopic analysis

Spectroscopic analysis—see also Chemical analysis

Analysis of gunshot primer residue collection swabs using flameless atomic absorption spectrophotometry: a reexamination of extraction and instrument procedures (Koons, Havekost, and Peters), July, 846

Characterization of small quantities of luminescent invisible detection materials using the Docuspec TM/1 microspectrophotometer (Springer and Zeichner), Jan., 248

Enhanced quantitative analytical capability with a nuclear magnetic resonance (NMR) spectrometer by use of an external integrating recorder (Hatzis and Rothchild), March, 396

Forensic science applications of diffuse reflectance infrared Fourier transform spectroscopy (DRIFTS): III. Direct analysis of polymeric foams (Suzuki and Gresham), March, 377

Investigation of gunshot residues by means of Auger electron spectroscopy (Hellmiss, Lichtenberg, and Weiss), May, 74

Multiple deaths from argon contamination of hospital oxygen supply (Smith), July, 1098

Quantitative determination of cocaine and heroin by Fourier transform infrared spectrophotometry (Raverby), Jan., 20

Specificity of electron impact mass spectroscopy for the identification of *N*-ethyl-1-phenylcyclohexylamine (PCE) (Clark), July, 917

Spermatozoa

Persistence of vaginal spermatozoa as assessed by routine cervicovaginal (Pap) smears (Randall), May, 678

Rapid screening technique for the detection of spermatozoa (Fraysier), March, 527

Steels

Restoration of stamp marks on steel components by etching and magnetic techniques (Turley), May, 640

Striations—see also Toolmarks

Individuality of toolmarks produced by a label maker used to write extortion notes (Mason and Grose), Jan., 137

Submerged bodies

Missouri's lakes and the disposal of homicide victims (Dix), May, 806

Preservation of human tissue immersed for five years in fresh water of known temperature (Cotton, Aufderheide, and Goldschmidt), July, 1125

Suicide

Analysis of toxic deaths, 1982 to 1985, Pima County, Arizona (Froede, Byers, Wolfgang, Froede, Jones, and Henry), Nov., 1676

Cutaneous ink sign: a tipoff to suicide or suicide notes (Hanzlick and Ross), March, 565

Deaths caused by carbon monoxide poisoning in an open environment (outdoors) (DiMaio and Dana), Nov., 1794

Fatal disopyramide intoxication from suicidal/accidental overdose (Sathyavagiswaran), Nov., 1813

Suicide—(cont.)

- Fatal intoxication by tocanide (Sperry, Wohlenberg, and Standefer), Sept., 1440
- Observations and statistics relating to suicide weapons (Stone), May, 711
- Psychiatrist's role in retrospective determination of suicide: an uncertain science (Goldstein), March, 489
- Suicidal contact gunshot wounds to the head with .38 special Glaser safety slug ammunition (Jones, Reyna, Sperry, and Hock), Nov., 1604
- Suicide by air rifle and shotgun (Cohle, Pickelman, Connolly, and Bauserman), July, 1113
- Suicide disguised as murder: a dimension of Munchausen syndrome (McDowell), Jan., 254
- Suicide far from home: the concept of transjurisdictional suicide (Hanzlick and Ross), Jan., 189
- Superimposition**
- Identification of skulls by video superimposition (Iten), Jan., 173
- Identification of the cadaver remains of Josef Mengele (Helmer), Nov., 1622
- Surveys**
- Justifiable homicide: a study of the application of nonculpable deadly force in Cuyahoga County (Cleveland), Ohio, 1958-1982 (Challener, Adelson, and Rushforth), Sept., 1389
- Police custody: deaths and medical attention (Sege), Nov., 1694
- Uses and effects of forensic science in the adjudication of felony cases (Peterson, Ryan, Houlden, and Mihajlovic), Nov., 1730
- Synchronism**
- Characteristics of synchronous sequential signatures (Foley), Jan., 121
- Synthetic fibers**
- Guide to the rapid screening, identification, and comparison of synthetic fibers in dust samples (Petraco), May, 1987

T**Tagging**

- Critical evaluation of current ink dating techniques (Brunelle and Cantu), Nov., 1522

Templates

- Aluminum template for casting agarose gels (Burdowle and Mudd), May, 1987

Terrorism

- Pseudo-political terrorism (Tanay), Jan., 192

Thermal analysis

- Improved determination of nitrotoluenes using liquid chromatography with photolytically assisted thermal energy analysis (LC-PAT) (Selvaka, Tontarski, and Strobel), July, 941

Tissues (biology)

- Concentrations of mustard gas [bis(2-chloroethyl)sulfide] in the tissues of a victim of a vesicant exposure (Drasch, Kretschmer, Kauert, and von Meyer), Nov., 1788
- Histologic detection of fat emboli (Davison and Cohle), Sept., 1426
- Preservation of human tissue immersed for five

years in fresh water of known temperature (Cotton, Aufderheide, and Goldschmidt), July, 1125

Tobacco

- Abuse of smoking methamphetamine mixed with tobacco: I. Inhalation efficiency and pyrolysis products of methamphetamine (Sekine and Nakahara), Sept., 1271

Tocainide

- Fatal intoxication by tocanide (Sperry, Wohlenberg, and Standefer), Sept., 1440

Tomography

- Computerized axial tomography as an aid in bite mark analysis: a case report (Farrell, Rawson, Steffens, and Stephens), Jan., 266

Toolmarks

- Individuality of toolmarks produced by a label maker used to write extortion notes (Mason and Grose), Jan., 137

Toxicology

- Abuse of smoking methamphetamine mixed with tobacco: I. Inhalation efficiency and pyrolysis products of methamphetamine (Sekine and Nakahara), Sept., 1271
- Analysis of dihydrocodeine in urine using Sep-Pak® C₁₈ cartridges for sample cleanup (Nakamura, Stall, and Meeks), March, 535
- Analysis of toxic deaths, 1982 to 1985, Pima County, Arizona (Froede, Byers, Wolfgang, Froede, Jones, and Henry), Nov., 1676
- Analysis of 2-hydroxyimipramine in an imipramine-related fatality (Fraser, Susnik, and Isner), March, 543
- Comparison of drug retention indices determined on packed, wide bore capillary and narrow bore capillary columns (Japp, Gill, and Osselton), Nov., 1574
- Concentrations of mustard gas [bis(2-chloroethyl)sulfide] in the tissues of a victim of a vesicant exposure (Drasch, Kretschmer, Kauert, and von Meyer), Nov., 1788
- Death caused by ingestion of endosulfan (Bernardelli and Gennari), July, 1109
- Drugs and alcohol in hypothermia and hyperthermia related deaths: a retrospective study (Kortelainen), Nov., 1704
- Enhanced quantitative analytical capability with a nuclear magnetic resonance (NMR) spectrometer by use of an external integrating recorder (Hatzis and Rothchild), March, 396
- Evaluation of the Abbott TD_x-radiative energy attenuation (REA) ethanol assay in a study of 1105 forensic whole blood specimens (Caplan and Levine), Jan., 55
- Fatal intoxication by tocanide (Sperry, Wohlenberg, and Standefer), Sept., 1440
- Fatal verapamil poisoning (Koepke and McBay), Sept., 1431
- Homicide by insulin administration (Haibach, Dix, and Shah), Jan., 208
- Ingestion of isobutyl nitrite, a recreational chemical of abuse causing fatal methemoglobinemia (O'Toole, Robbins, and Dixon), Nov., 1811

- In vitro accuracy and precision studies comparing direct and delayed analysis of the ethanol content of vapor (Goldberger and Caplan), Jan., 48
- Massive metoprolol ingestion associated with a fatality—a case report (Riker, Wright, Matusiak, and de Tuscan), Sept., 1447
- Maternal death associated with intravenous methylphenidate (Ritalin®) and pentazocine (Talwin®) abuse (Lundquest, Young, and Edland), May, 798
- Methamphetamine from ephedrine: I. Chloroephedrines and aziridines (Allen and Kiser), July, 953
- Quantitative determination of cocaine and heroin by Fourier transform infrared spectrophotometry (Raverby), Jan., 20
- Separation of lysergide (LSD) from related ergot alkaloids and its identification in forensic science casework samples (Japp, Gill, and Osseton), July, 933
- Simple approach to the interlaboratory transfer of drug retention indices determined by temperature programmed capillary gas chromatography (Stowell and Wilson), Sept., 1214
- Specificity of electron impact mass spectroscopy for the identification of *N*-ethyl-1-phenylcyclohexylamine (PCE) (Clark), July, 917
- Unconjugated morphine in blood by radioimmunoassay and gas chromatography/mass spectrometry (Spiehler and Brown), July, 906
- Trace evidence**
- Simple trace evidence trap for the collection of vacuum sweepings (Petraco), Sept., 1422
- Transferrin**
- Progressive desialidation of human transferrin (Blake), Sept., 1342
- Transferring**
- Secondary transfer of human scalp hair (Gaudette and Tassarolo), Sept., 1241
- Transillumination**
- Transillumination in bite mark evidence (Dorion), May, 690
- Typewriters**
- Image processing and statistical analysis as an aid in the comparison of typewritten impressions (Noblett), July, 963
- Printwheel typescript variations caused by the manufacturing process (Behrendt and Muchlberger), May, 629
- Was the document reinserted in the typewriter? (Horan), Jan., 245

U-X

Ultraviolet photography—see Photography

Urine

- Analysis of dihydrocodeine in urine using Sep-Pak® C₁₈ cartridges for sample cleanup (Nakamura, Stall, and Meeks), March, 535
- Typing of urine in the ABO and Lewis systems (Kotowski), July, 1065

Vacuum cleaners

- Simple trace evidence trap for the collection of vacuum sweepings (Petraco), Sept., 1422

Validity

- Electrophoresis reliability: I. The contaminant issue (Budowle and Allen), Nov., 1537

Verapamil

- Fatal verapamil poisoning (Koepeke and McBay), Sept., 1431

Vitreous humor

- Vitreous humor chemistry: the use of potassium concentration for the prediction of the postmortem interval (Stephens and Richards), March, 503

Voice analysis

- Voice stress evaluators and lie detection (Hollien, Geison, and Hicks), March, 405

Kurt Waldheim

- Forensic science evidence in the investigation of the World War II activities of Dr. Kurt Waldheim (Crown), Nov., 1782

Wound ballistics

- Cranial fracture patterns and estimate of direction from low velocity gunshot wounds (Smith, Berryman, and Lahren), Sept., 1416
- Determination of shooting distance from deformation of the recovered bullet (Fackler, Woychesin, Malinowski, Dougherty, and Loveday), July, 1131
- Fatal wound from an unusual military projectile: potential dangers of live military ordnance to the autopsy pathologist (Clark), May, 793
- Gunshot wound with asphalt related pseudo-soot, pseudo-tattooing, and pseudo-scorching (Zaki and Hanzlick), July, 1136
- Observations and statistics relating to suicide weapons (Stone), May, 711
- Observations of high velocity blood spatter on adjacent objects (Pex and Vaughan), Nov., 1587
- Suicidal contact gunshot wounds to the head with .38 special Glaser safety slug ammunition (Jones, Reyna, Sperry, and Hock), Nov., 1604
- Suicide by air rifle and shotgun (Cohle, Pickelman, Connolly, and Bauserman), July, 1113
- Unique missile in a homicide victim: the Brenneke shotgun slug (Rao and Rao), Sept., 1435
- Unusual pattern of gunshot injury linking two homicides to the same assailant (Frazer), Jan., 262

X-ray analysis

- Automation of gunshot scanning electron microscopy energy dispersive X-ray analysis (White and Owens), Nov., 1595
- Comparative radiographic study of human and animal long bone patterns (Chilvarquer, Katz, Glassman, Prihoda, and Cottone), Nov., 1645
- Demonstration of esophageal varices postmortem by gastroesophageal phlebography (Segerberg-Kontinen), May, 703
- Lateral craniographic method of facial reconstruction (George), Sept., 1305
- Use of scanning electron microscopy and energy dispersive X-ray analysis (SEM-EDXA) in identification of foreign material on bullets (DiMaio, Dana, Taylor, and Ondrusek), Jan., 38