Journal of Forensic Sciences Subject Index to Volume 33 1988

A

Accelerants

Alternative methods for processing arson samples in polyester bags (Stackhouse and Gray), March, 515

Accidents

- Cervical airway injuries as a result of impact with steering wheel rim (Mittleman), Sept., 1198
- Dragging deaths: a case in point (Dix and Bolesta), May, 826
- Extinction-type photometering technique for lowlight-level luminance measurements in accident investigations (Hyzer), March, 530
- Medical investigation of airship accidents (Stahl, McMeekin, Ruehle, and Canik), July, 888

Acid phosphatases—see Phosphatases

Adhesive bed

Novel technique for the collection and recovery of foreign fibers in forensic science casework (Choudhry), Jan., 249

Adhesive tapes

Comparison of black polyvinylchloride (PVC) tapes by pyrolysis gas chromatography (Williams and Munson), Sept., 1163

Adolscents

Study of the handwriting of adolescents (Masson), Jan., 167

Agammaglobulinemia

Case of panhypogammaglobulinemia masquerading as child abuse (Copeland), Nov., 1493

Age estimation—see Human identification

Aging

Comments on the accelerated aging of ink (Cantu), May, 744

Aircraft

Medical investigation of airship accidents (Stahl, McMeekin, Ruehle, and Canik), July, 888

Ajamaline

Infant fatality involving ajmaline (Ikeda, Umetsu, Suzuki, Gonmori, and Takahashi), March, 558

Alcohol

Drug use by tractor-trailer drivers (Lund, Preusser, Blomberg, and Williams), May, 648

Amitriptyline

- Amitriptyline overdose versus sudden infant death syndrome in a two-month-old white female (Perrot), Jan., 272
- Ammunition-see Ballistics
- Aneurysms-see Cardiovascular system
- 8-Anilinonaphthalene-1-sulfonate (ANS)
- ANS (8-anilinonaphthalene-1-sulfonate)—a new reagent for detection of latent fingerprints (Cheng), March, 527

Antigen systems

- Micromethod for MN antigen grouping of dried bloodstains (Berns and Lötterle), Jan., 230
- Two-dimensional absorption-inhibition (Lee, Gaensslen, Pagliaro, and Novitch), Sept., 1127
- Unusual variant of blood group A (Tumosa and Dowd), Nov., 1503

Aortoesophageal fistula

- Traumatic false aneurysm of descending aorta with aortoesophageal fistula (Swanson and Gaffey), May, 816
- Apolipoproteins
- Stability of plasma total cholesterol, triglycerides, and apolipoproteins B and A-I during the early postmortem period (Särkioja, Yla-Herttuala, Solakivi, Nikkari, and Hirvonen), Nov., 1432

Arson

Alternative methods for processing arson samples in polyester bags (Stackhouse and Gray), March, 515

Arteriovenous malformation (AVM)

Cranial arteriovenous malformation: suicide by exsanguination (Gauger and Herrmann), Jan., 283

Asphyxia

- Asphyxial deaths as a result of aspiration of dental appliances: a report of three cases (Adelman), March, 389
- Autoerotic asphyxial death following television broadcast (O'Halloran and Lovell), Nov., 1491
- Medical evaluation of the victims of the 1986 Lake Lyos disaster (Wagner, Clark, Koenigsberg, and Decata), July, 899

Autoerotism

Autoerotic asphyxial death following television broadcast (O'Halloran and Lovell), Nov., 1491 Automated systems

Fast isoelectric focusing of some polymorphic proteins and enzymes in miniaturized gels using an automated system (Carracedo, Andrade-Vide, Rodriguez-Calvo, Montiel, and Lareu), Nov., 1379

Automobiles

Cervical airway injuries as a result of impact with steering wheel rim (Mittleman), Sept., 1198 Autopsies—see Postmortem examinations

B

Ballistics-see also Wound ballistics

- Bullet ricochet from gypsum wallboard (Jordan, Bratton, Donahue, and Rowe), Nov., 1477
- Comparison of the terminal ballistics of full metal jacket 7.62-mm M80 (NATO) and 5.56-mm M193 military bullets: a study in ordance gelatin (Ragsdale and Sohn), May, 676
- Detection of gunshot residue (GSR) particles on the bottom of discharged bullets (Bergman, Enzel, and Springer), July, 960
- Determination of barium in gunshot residue collection swabs using inductively coupled plasmaatomic emission spectrometry (Koons, Havekost, and Peters), Jan., 35
- Effects of water-soaking on firing distance estimations (Even, Bergman, Springer, and Klein) March, 319
- Evidentiary value of the contents of hollow-point bullets (Smith and Harruff), July, 1052
- Shielding capacity of the standard military flak jacket against ballistic injury to the kidney (O'Connell, Frazier, Clark, Christenson, Keyes, and Josselson), March, 410
- Shotcup petal abrasions in close range .410-caliber shotgun injuries (Dowling, Dickinson, and Cooke), Jan., 260
- Terminal ballistic characteristics of Hydra-Shok® ammunition: a description of three cases (Sperry and Sweeney), Jan., 42

Barefoot impressions

Barefoot impressions—a preliminary study of identification characteristics and population frequency of their morphological features (Laskowski and Kyle), March, 378

Battered Child Syndrome-see Child abuse Benzodiazepines

Rapid isolation of benzodiazepines with Sep-Pak[®] C₁₈ cartridges (Suzuki, Seno, and Kumazawa), Sept., 1249

Bite marks

- Bite mark impressions: a review of techniques and materials (Benson, Cottone, Bomberg, and Sperber), Sept., 1238
- Bite mark standard reference scale—ABFO No. 2 (Hyzer and Krauss), March, 498
- Present direction of research in forensic odontology (Katz and Cottone), Nov., 1319

Blood

- Development of a radioimmunossay technique for the detection of human hemoglobin in dried bloodstains (Quarino and Kobilinsky), Nov., 1369
- Estimation of postmortem interval based on the third component of complement (C3) cleavage (Kominato, Harada, Yamazaki, and Misawa), March, 404
- Identification of male bloodstains by dot hybridization of human Y chromosome-specific deoxyribonucleic acid (DNA) probe (Fukushima, Hasekura, and Nagai), May, 621
- Sex identification in fresh blood and dried bloodstains by a nonisotopic deoxyribonucleic acid (DNA) analyzing technique (Kobayashi, Nakauchi, Nakahori, Nakagome, and Matsuzawa), May, 613
- Stability of plasma total cholesterol, triglycerides, and apolipoproteins B and A-I during the early postmortem period (Särkioja, Yla-Herttuala, Solakivi, Nikkari, and Hirvonen), Nov., 1432
- Unusual variant of blood group A (Tumosa and Dowd), Nov., 1503

Blood serum

Simple pattern method for alpha₂ HS-glycoprotein typing (Sebetan), July, 1031

Body fluids

- Comparison of laser and high-intensity quartz arc tubes in the detection of body secretions (Auvdel), July, 929
- Two-dimensional absorption-inhibition (Lee, Gaensslen, Pagliaro, and Novitch), Sept., 1127

Bolts

- Probability analysis and the evidential value of bolt arrangements (Even, Bergman, Springer, and Feingold), Sept., 1278
- Bones-see Musculoskeletal system

Yelena Bonner

Alleged tampering with mail of Dr. Yelena Bonner (Grantham), May, 835

Book reviews

- Advances in Forensic Haemogenetics by Brinkmann and Henningsen (Sensabaugh), May, 851
- The Automobile Theft Investigator by Cook (Cadman), May, 858
- CAP Handbook for Postmortem Examination of Unidentified Remains by Fierro and Loring (Wetli), May, 852
- Cocaine: A Clinician's Handbook by Washton and Gold (Jones), July, 1085
- Comprehensive Index to the Journal of Forensic Science 1972-1986 by Dominguez (Cravey), March, 596
- Electron Microscopy in Forensic, Occupational and Environmental Health Sciences by Basu and Millette (Rhodes), May, 864
- Encyclopedia of Health Information Sources, First Edition by Wasserman (Jones), Jan., 291

The Essentials of Forensic Medicine: 4th Edition by Polson et al. (Tate), Jan., 289

Evil Angels (Slovenko), Nov., 1513

- A Field Guide for Human Skeletal Identification by Bennett (Hinkes), May, 854
- Geriatric Psychiatry and the Law by Rosner and Schwartz (Bloomingdale), Sept., 1291
- Human Blood Groups by Prokop (Taylor), March, 597
- Human Osteology—A Laboratory and Field Manual Third Edition by Bass (İşcan), Sept., 1287

Human Values in Pediatric Hematology/Oncology (Moenssens), Nov., 1511

- Manual of Forensic Entomology by Smith (Rodriguez), May, 862
- Pathology Annual 1987: Part 2 by Rosen and Fechner (Sperry), Sept., 1295
- Personal Identification from Human Remains by Rogers (Hinkes), July, 1096
- Photographs and Maps Go to Court by Gillen (Walton), May, 866
- Sciences Legales et Police Scientifique (in French) by Clement (Finck), July, 1098
- Scientific Aspects of Graphology—a Handbook by Nevo (Crown), Jan., 287
- Scientific Evidence in Criminal Cases, 3rd edition by Moenssens et al. (Strong), May, 860
- The Study of Latent Fingerprints—a Science by Clements (Black), May, 856
- Techniques of Crime Scene Investigation by Fisher (McCarty), Sept., 1290
- Thin-Layer Chromoaographic R₁ Values of Toxicologically Relevant Substances on Standardized Systems by Moffat (Peat), Sept., 1289
- Violence Prediction Guidelines for the Forensic Practitioner (Perr) Nov., 1509

Breath-alcohol testing devices

- Statistical evaluation of truncated breath-alcohol test measurements (Gullberg), March, 507 **Bullet ricochets**
- Bullet ricochet from gypsum wallboard (Jordan, Bratton, Donahue, and Rowe), Nov., 1477

Bullets-see Ballistics

С

Cannabinoids-see Marijuana

Cannabis-see Marijuana

Capsular polysaccharides

Postmortem diagnosis of meningococcemia by detection of capsular polysaccharides (Challener, Morrissey, and Jacobs), March, 336

Carbon dioxide

Medical evaluation of the victims of the 1986 Lake Nyos disaster (Wagner, Clark, Koenigsberg, and Decata), July, 899

Cardiovascular system

- Regional study of free fatty acids and free carnitine behavior in cardiac tissue in relation to different causes of death (Lachica, Villanueva, and Luna), Nov.,
- Traumatic false aneurysm of descending aorta with aortoesophagel fistula (Swanson and Gaffey), May, 816

Castings

Individuality of human palatal rugae (English, Robison, Summitt, Oesterle, Brannon, and Morlang), May, 718

Chemical analysis

- Analysis of explosives by liquid chromatography/ thermospray/mass spectrometry (Berberich, Yost, and Fetterolf), July, 946
- Chromatographic and spectroscopic profiles of *Cannabis* of different origins: Part I (Brenneisen and ElSohly), Nov., 1385
- Detection of gunshot residue (GSR) particles on the bottom of discharged bullets (Bergman, Enzel, and Springer), July, 960
- Extractive alkylation and gas chromatographic analysis of sulfide (Kage, Nagata, Kimura, and Kudo), Jan., 217
- Fatality involving U4Euh, a cyclic derivative of phenylpropanolamine (Davis and Brewster), March, 549
- Gas chromatographic/mass spectrometric analysis of morphine and codeine in human urine of poppy seed eaters (ElSohly, Stanford, Jones, ElSohly, Snyder, and Pedersen) March, 347
- Identification of nitromethaqualone and its differentiation from some positional isomers (Clark), July, 1035
- Identification of sugars in explosive residues by gas chromatography-mass spectrometry (Nowicki and Pauling), Sept., 1254

Chest plate

Age related changes in the human plastron: a roentgenographic and morphologic study (Mc-Cormick and Stewart), Jan., 100

Child abuse

- Case of panhypogammaglobulinemia masquerading as child abuse (Copeland), Nov., 1493
- Child abuse reporting trends: an unprecedented threat to confidentiality (Weinstock and Weinstock), March, 418
- Unusual case of child abuse homicide/suicide (Fain and McCormick), March, 554

Children

- Childhood identification and prophylaxis of antisocial personality disorder (Bloomingdale and Bloomingdale), Jan., 187
- Chromatographic analysis—see also Chemical analysis
- Comparison of black polyvinylchloride (PVC) tapes by pyrolysis gas chromatography (Williams and Munson), Sept., 1163
- Examination of illicit cocaine (LeBelle, Lauriault, Callahan, Latham, Chiarelli, and Beckstead), May, 662
- Heroin, morphine, and hydromorphone determination in postmortem material by high performance liquid chromatography (Sawyer, Waterhouse, Doedens, and Forney), Sept., 1146
- Infant fatality involving ajmaline (Ikeda, Umetsu, Suzuki, Gonmori, and Takahashi), March, 558
- Quantitation of phenyl-2-propanone using highperformance liquid chromatography (Sottolano), Nov., 1415

Chromatographic analysis (cont.)

- Rapid isolation of benzodiazepines with Sep-Pak® C₁₈ cartridges (Suzuki, Seno, and Kumazawa), Sept., 1249
- Tissue distribution of ethosuximide and clobazam in a seizure related fatality (Fraser, Isner, and Heifetz), July, 1058

Class characteristics

- Erasable felt tip writing instrument detection (Zimmerman, Doherty, and Mooney), May, 709
- Study of the handwriting of adolescents (Masson), Jan., 167

Clobazam

Tissue distribution of ethosuximide and clobazam in a seizure related fatality (Fraser, Isner, and Heifetz), July, 1058

Cocaine

- Cocaine and homicide in Memphis and Shelby County: an epidemic of violence (Harruff, Francisco, Elkins, Phillips, and Fernandez), Sept., 1231
- Drug use by tractor-trailer drivers (Lund, Preusser, Blomberg, and Williams), May, 648
- Examination of illicit cocaine (LeBelle, Lauriault, Callahan, Latham, Chiarelli, and Beckstead), May, 662
- Processing protocol for drug residue and latent print evidence (Nielson and Katz), Nov., 1463
- Recovery of latent prints and drug residues from a problem porous surface (Nielson and Katz), Nov., 1506

Codeine

Gas chromatographic/mass spectrometric analysis of morphine and codeine in human urine of poppy seed eaters (ElSohly, Stanford, Jones, ElSohly, Synder, and Pedersen), March, 347

Coitus

Vaginal fluid zinc concentration as a marker for intercourse (Rogers, Bernstein, Nakamura, Endahl, and Bhoopat), Jan., 77

Colors (materials)

Color matching within a fiber data collection (Hartshorne and Laing), Nov., 1345

Comparative analysis

- Association between victim's clothing and fabric impressions in grease (Wilson), May, 829
- Comparison of the terminal ballistics of full metal jacket 7.62-mm M80 (NATO) and 5.56-mm M193 military bullets: a study in ordance gelatin (Ragsdale and Sohn), May, 676
- Microfilm documents: what are the boundaries in document examination (Hanna), Jan., 154
- Patterns in sharp force fatalities—a comprehensive forensic medical study: Part 2. Suicidal sharp force injury in the Stockholm area 1972-1984 (Karlsson, Ormstad, and Rajs), March 448

Complement (biology)

Estimation of postmortem interval based on the third component of complement (C3) cleavage (Kominato, Harada, Yamazaki, and Misawa), March, 404

Computers

Computer-aided seal discriminating system, (Tang), July, 969

- Computer-assisted postmortem identification (CAPMI) system: a computer-based identification program (Lorton, Rethman, and Friedman), July, 977
- **Confidentiality**—see Privacy and Doctor-patient privilege

Corrosion

Alterations in human bones and teeth as a result of restricted sun exposure and contact with corrosive agents (Ubelaker and Sperber), March, 540

Criminal aliases

Name variation and aspects of body image among male offenders (Harry), Jan., 200

Criminalistics

- ANS (8-anilinonaphthalene-1-sulfonate)—a new reagent for detection of latent fingerprints (Cheng), March, 527
- Association between victim's clothing and fabric impressions in grease (Wilson), May, 829
- Barefoot impressions—a preliminary study of identification characteristics and population frequency of their morphological features (Laskowski and Kyle), March, 378
- Bullet ricochet from gypsum wallboard (Jordan, Bratton, Donahue, and Rowe), Nov., 1477
- Cocaine and homicide in Memphis and Shelby County: an epidemic of violence (Harruff, Francisco, Elkins, Phillips, and Fernandez), Sept. 1231
- Comparison of black polyvinylcholoride (PVC) tapes by pyrolysis gas chromatography (Williams and Munson), Sept., 1163
- Dangerous information: product tampering and poisoning advice in revenge and murder manuals (Dietz), Sept., 1206
- Delayed traumatic intracerebral hematoma (DTICH) and the determination of the manner of death. A case report and review of the literature (McFeeley and Blisard), May, 801
- Detection of gunshot residue (GSR) particles on the bottom of discharged bullets (Bergman, Enzel, and Springer), July, 960
- Effects of water-soaking on firing distance estimations (Even, Bergman, Springer, and Klein), March, 319
- Epidemic of intravenous narcoticism deaths associated with the resurgency of black tar heroin (Sperry), Sept., 1156
- Evaluation of the air bubbles present in polyurethane shoe outsoles as applicable in footwear impression comparisons (Music and Bodziak), Sept., 1185
- Evidentiary value of the contents of hollow-point bullets (Smith and Harruff), July, 1052
- Examination techniques for determining whether or not a key is an original or a duplicate (Springer, Bergman, and Feingold), Nov., 1355
- Extinction-type photometering technique for lowlight-level luminance measurements in accident investigations (Hyzer), March, 530
- Fluorescence of petroleum products III. Three-dimensional fluorescence plots of petrolatumbased products (Gugel and Siegel), Nov., 1405
- Glycogenated squamous epithelial cells as a

marker of foreign body penetration in sexual assault (Randall), March, 511

- Identification of sugars in explosive residues by gas chromatography-mass spectrometry (Nowicki and Pauling), Sept., 1254
- Identification of wooden instrument by scanning electron microscopy from splinters left in victim (Adelman, Peterson, and Sorger), May, 787
- Medical model for criminalistics education (Stoney), July, 1086
- 5-Methoxyninhydrin: a reagent for the chemical development of latent fingerprints that is compatible with the copper-vapor laser (Almog and Hirshfeld), July, 1027
- On the application of metallurgical techniques to forensic sciences (Rittel and Faingold), Jan., 210
- Morphology and evidential significance of human hair roots (Petraco, Fraas, Callery, and De Forest), Jan., 68
- Probability analysis and the evidential value of bolt arrangements (Even, Bergman, Springer, and Feingold), Sept., 1278
- Research experience and future criminalists (Smith, Liu, and Lindquist), July, 1074
- Simple, rapid, and unique hand techniques for cross-sectioning fibers and hair (Fong and Inami), March, 305
- Statistical evaluation of truncated breath-alcohol test measurements (Gullberg), March, 507
- Technique to enhance fingerprinting of mummified fingers (Haglund), Sept., 1244
- Unusual case of child abuse homicide/suicide (Fain and McCormick), March, 554
- Use of frequency-doubled neodymium: yttrium aluminum garnet (Nd:YAG) laser for enhancement of weak bloody fingerprints (Cheng), July, 1022

Criminal sex offenses

- Fluorescence of petroleum products III. Three-dimensional fluorescence plots of petrolatumbased products (Gugel and Siegel), Nov., 1405
- Glycogenated squamous epithelial cells as a marker of foreign body penetration in sexual assault (Randall), March, 511
- Identification of wooden instrument by scanning electron microscopy from splinters left in victim (Adelman, Peterson, and Sorger), May, 787
- Predicting the effectiveness of treatment for pedophilia (Rowan), Jan., 204
- Tests of genetic markers on aborted fetal material (Reisner, Clark, and Shoffner), Sept., 1262

Cross-sectioning

Death

Simple, rapid, and unique hand techniques for cross-sectioning fibers and hair (Fong and Inami), March, 305

Amitriptyline overdose versus sudden infant death syndrome in a two-month-old white female (Perrot), Jan., 272

D

- Autoerotic asphyxial death following television broadcast (O'Halloran and Lovell), Nov., 1491
- Causes of death of patients in an institution for the developmentally disabled (Blisard, Martin, Brown, Smialek, Davis, and McFeeley), Nov., 1457
- Death from pool chlorine—an unusual case (Rao and Hearn), May, 812
- Delayed traumatic intracerebral hematoma (DTICH) and the determination of the manner of death. A case report and review of the literature (McFeeley and Blisard), May, 801
- Dragging deaths: a case in point (Dix and Bolesta), May, 826
- Epidemic of intravenous narcoticism deaths associated with the resurgency of black tar heroin (Sperry), Sept., 1156
- Evaluation of sudden death in psychiatric patients with special reference to phenothiazine therapy: forensic pathology (Laposata, Hale, and Poklis), March, 432
- Pathological spectrum of the lung in cases of violent death: Part 1. Lesion classification (Ferrer, Castellano, Bona, and Plaza), March, 480
- Pathological spectrum of the lung in cases of violent death: Part II. Clinicopathologic correlation (Ferrer, Castellano, and Plaza), March, 490
- Pheochromocytoma and sudden death as a result of cerebral infarction in Turner's syndrome: report of a case (Knisely, Sweeney, and Ambler), Nov., 1497
- Sudden death following administration of radio contrast media (Edelstein), May, 734
- Sudden death in a neonate as a result of herpes simplex infection (Traisman, Young, Lifschultz, Traisman, Benuck, and Chasnoff), Jan., 267
- Sudden death in mitral valve prolapse (Scala-Barnett and Donoghue), Jan., 84

Death certificates

Operational criteria for the determination of suicide (Rosenberg, Davidson, Smith, Berman, Buzbee, Gantner, Gay, Moore-Lewis, Mills, Murray, O'Carroll, and Jobes), Nov., 1445

Decomposition

Autodegradation of deoxyribonucleic acid (DNA) in human rib bone and its relationship to the time interval since death (Perry, Bass, Riggsby, and Sirotkin), Jan., 144

Dental appliances-see Prosthetic devices

Dentition

- Failure of use of cemental annulations in teeth to determine the age of humans (Miller, Dove, and Cottone), Jan., 137
- Method of orientation of skull and camera for use in forensic photographic investigation (Mc-Kenna), May, 751
- Scanning electron microscopy and electron probe X-ray microanalysis (Ikeda, Watanabe, Harada, and Suzuki), Nov., 1328
- Simple overlay system for data comparison in dental identification (Jones), Jan., 254

Deoxyribonucleic acid (DNA)

Autodegradation of deoxyribonucleic acid (DNA) in human rib bone and its relationship to the

1532 JOURNAL OF FORENSIC SCIENCES

Deoxyribonucleic acid (DNA) (cont.)

time interval since death (Perry, Bass, Riggsby, and Sirotkin), Jan., 144

- Establishing paternity using minisatellite DNA probes when the putative father is unavailable for testing (Odelberg, Demers, Westin, and Hossaini), July, 921
- Identification of male bloodstains by dot hybridization of human Y chromosome-specific deoxyribonucleic acid (DNA) probe (Fukushima, Hasekura, and Nagai), May, 621
- Repetitive deoxyribonucleic acid (DNA) and human genome variation—a concise review relevant to forensic biology (Fowler, Burgoyne, Scott, and Harding), Sept., 1111
- Sex identification in fresh blood and dried bloodstains by a nonisotopic deoxyribonucleic acid (DNA) analyzing technique (Kobayashi, Nakauchi, Nakahori, Nakagome, and Matsuzawa), May, 613

Designer drugs

- Designer drugs: past history and future prospects (Henderson), March, 569
- Introduction to Workshop: Designer Drugs (Cravey), March, 568
- 3,4-Methylenedioxymethamphetamine (MDMA) and other amphetamine derivatives (Bost), March, 576
- 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP): one designer drug and serendipity (Weingarten), March, 588

Deviant sexual behavior

Autoerotic asphyxial death following television broadcast (O'Halloran and Lovell), Nov., 1491

Digital image processing

Computer-aided seal discriminating system, (Tang), July, 969

Disabled patients

Causes of death of patients in an institution for the developmentally disabled (Blisard, Martin, Brown, Smialek, Davis, and McFeeley), Nov., 1457

Doctor-patient privilege

- Child abuse reporting trends: an unprecedented threat to confidentiality (Weinstock and Weinstock), March, 418
- Controversial ethical issues in forensic psychiatry: a survey (Weinstock), Jan., 176
- Presence of counsel at forensic psychiatric examinations (Rachlin and Schwartz), July, 1008

Dragging

Dragging deaths: a case in point (Dix and Bolesta), May, 826

Driving (motor vehicle operation)

Drug use by tractor-trailer drivers (Lund, Preusser, Blomberg, and Williams), May, 648

Drug residues

- Processing protocol for drug residue and latent print evidence (Nielson and Katz), Nov., 1463
- Recovery of latent prints and drug residues from a problem porous surface (Nielson and Katz), Nov., 1506
- Drugs-see Toxicology and specific headings

Dyes

- Assessment of the value of blue, red, and black cotton fibers as target fibers in forensic science investigations (Grieve, Dunlop, and Haddock), Nov., 1332
- Dye batch variation in textile fibers (Wiggins, Cook, and Turner), July, 998

E

Editorials

Research (Curry), May, 605

Standard Reference Materials (Rasberry), Sept., 1103

Education

- Appropriate educational background for entry level forensic scientists: a survey of practitioners (Siegel), July, 1065
- Determination of cause and mode of death before and after medicolegal autopsy: a comparative study (Segerberg-Konttinen), March, 441
- Do forensic science graduate programs fulfill the needs of the forensic science community? (Higgins and Selavka), July, 1015
- Forensic science laboratory/forensic science program cooperation and relationships: the view from the forensic science laboratory (Lee and Gaensslen), July, 1071
- Medical model for criminalistics education (Stoney), July, 1086
- Regional cooperation and regional centers among forensic science programs in the United States (Gaensslen and Lee), July, 1069
- Research experience and future criminalists (Smith, Liu, and Lindquist), July, 1074
- Teaching ethics in a forensic science curriculum (Peterson), July, 1061
- Electrostatic detection apparatus (ESDA)
- Electrostatic detection apparatus (ESDA) and its effects on latent prints on paper (Moore), March, 357
- EMIT[®]—see Immunoassay

Epilepsy

Tissue distribution of ethosuximide and clobazam in a seizure related fatality (Fraser, Isner, and Heifetz), July, 1058

Erasures

- Erasable felt tip writing instrument detection (Zimmerman, Doherty, and Mooney), May, 709
- Methylene blue revisited: the search for a troublefree erasure sensitive powder (Riker and Lewis), May, 773

Erythrocyte acid phosphatases—see Phosphatases Esterase D

- Hybrid ampholyte focusing technique for esterase D subtyping of evidentiary materials (Budowle and Gambel), May, 738
- Ethanol-see alcohol

Ethics

- Controversial ethical issues in forensic psychiatry: a survey (Weinstock), Jan., 176
- Teaching ethics in a forensic science curriculum (Peterson), July, 1061

Etbosuximide

Tissue distribution of ethosuximide and clobazam in a seizure related fatality (Fraser, Isner, and Heifetz), July, 1058

Ethyl acetate complex

Fourier transform-infrared (FT-IR) characterization of the ethyl acetate complex of O⁶-acetylmorphine (Beckstead and Neville), Jan., 223

Explosives

- Analysis is explosives by liquid chromatography/ thermospray/mass spectrometry (Berberich, Yost, and Fetterolf), July, 946
- Identification of sugars in explosive residues by gas chromatography-mass spectrometry (Nowicki and Pauling), Sept., 1254

Extraction-see also Drug Identification

Fourier transform-infrared (FT-IR) characterization of the ethyl acetate complex of O⁶-acetylmorphine (Beckstead and Neville), Jan., 223

Extractive alkylation

Extractive alkylation and gas chromatographic analysis of sulfide (Kage, Nagata, Kimura, and Kudo), Jan., 217

F

Fabrics

Association between victim's clothing and fabric impressions in grease (Wilson), May, 829

Fentanyl

Designer drugs: past history and future prospects (Henderson), March, 569

Fibers—see also Synthetic fibers

- Assessment of the value of blue, red, and black cotton fibers as target fibers in forensic science investigations (Grieve, Dunlop, and Haddock), Nov., 1332
- Color matching within a fiber data collection (Hartshorne and Laing), Nov., 1345
- Dye batch variation in textile fibers (Wiggins, Cook, and Turner), July, 998
- Novel technique for the collection and recovery of foreign fibers in forensic science casework (Choudhry), Jan., 249
- Simple, rapid, and unique hand techniques for cross-sectioning fibers and hair (Fong and Inami), March, 305

Fingerprints

- ANS (8-anilinonaphthalene-1-sulfonate)—a new reagent for detection of latent fingerprints (Cheng), March, 527
- Electrostatic detection apparatus (ESDA) and its effects on latent prints on paper (Moore), March, 357
- 5-Methoxyninhydrin: a reagent for the chemical development of latent fingerprints that is compatible with the copper-vapor laser (Almog and Hirshfeld), July, 1027
- Recovery of latent prints and drug residues from a problem porous surface (Nielson and Katz), Nov., 1506
- Technique to enhance fingerprinting of mummified fingers (Haglund), Sept., 1244
- Use of frequency-doubled neodymium: yttrium

aluminum garnet (Nd:YAG) laser for enhancement of weak bloody fingerprints (Cheng), July, 1022

Flak jackets-see Protective clothing

Fluorescence—see Luminescence

Fluorescence spectroscopy—see Spectroscopic analysis

Fluorogenic substrates

Alternative, effective substrate for erythrocyte acid phosphatase phenotype determinations (Budowle and Gambel), July, 915

Footprints

Barefoot impressions—a preliminary study of identification characteristics and population frequency of their morphological features (Laskowski and Kyle), March, 378

Footwear

Evaluation of the air bubbles present in polyurethane shoe outsoles as applicable in footwear impression comparisons (Music and Bodziak), Sept., 1185

Forensic science

- Alternative, effective substrate for erythrocyte acid phosphatase phenotype determinations (Budowle and Gambel), July, 915
- Alternative methods for processing arson samples in polyester bags (Stackhouse and Gray), March, 515
- Analysis of explosives by liquid chromatography/ thermospray/mass spectrometry (Berberich, Yost, and Fetterolf), July, 946
- Appropriate educational background for entry level forensic scientists: a survey of practitioners (Siegel), July, 1065
- Assessment of the value of blue, red, and black cotton fibers as target fibers in forensic science investigations (Grieve, Dunlop, and Haddock), Nov., 1332
- Classification and discrimination of sheet and container glasses by inductively coupled plasma-atomic emission spectrometry and pattern recognition (Koons, Fiedler, and Rawalt), Jan., 49
- Color matching within a fiber data collection (Hartshorne and Laing), Nov., 1345
- Comparison of laser and high-intensity quartz arc tubes in the detection of body secretions (Auvdel), July, 929
- Comparison of the terminal ballistics of full metal jacket 7.62-mm M80 (NATO) and 5.56-mm M193 military bullets: a study in ordance gelatin (Ragsdale and Sohn), May, 676
- Detection and use of salivary hemagglutinins for forensic blood grouping (Kobilinsky and Harrington), March, 396
- Detection of hemagglutinins in dried saliva stains and their potential use in blood typing (Harrington, Martin, and Kobilinsky), May, 628
- Determination of barium in gunshot residue collection swabs using inductively coupled plasmaatomic emission spectrometry (Koons, Havekost, and Peters), Jan., 35
- Development of a radioimmunossay technique for the detection of human hemoglobin in dried

- Forensic science (cont.)
- bloodstains (Quarino and Kobilinsky), Nov., 1369
- Do forensic science graduate programs fulfill the needs of the forensic science community? (Higgins and Selavka), July, 1015
- Dye batch variation in textile fibers (Wiggins, Cook, and Turner), July, 998
- Examination of a contaminated seminal stain using absorption-elution and enzyme-linked immunosorbent assay (ELISA) (Bolton and Thorpe), May, 797
- Examination of vaginally inserted plastic tampon applicators for genetic markers and evidence of prior sexual intercourse (Springer, Laber, and Randall), Sept., 1139
- Fast isoelectric focusing of some polymorphic proteins and enzymes in miniaturized gels using an automated system (Carracedo, Andrade-Vide, Rodriguez-Calvo, Montiel, and Lareu), Nov., 1379
- Forensic science laboratory/forensic science program cooperation and relationships: the view from the forensic science laboratory (Lee and Gaensslen), July, 1071
- Hybrid ampholyte focusing technique for esterase D subtyping of evidentiary materials (Budowle and Gambel), May, 738
- Identification of male bloodstains by dot hybridization of human Y chromosome-specific deoxyribonucleic acid (DNA) probe (Fukushima, Hasekura, and Nagai), May, 621
- Improved method for histological preparation of single hairs and dust samples morphological and immunological examination (Tanabe, Iskiyama, and Itakura), May, 767
- Medical model for criminalistics education (Stoney), July, 1086
- Micromethod for MN antigen grouping of dried bloodstains (Berns and Lötterle), Jan., 230
- Novel technique for the collection and recovery of foreign fibers in forensic science casework (Choudhry), Jan., 249
- On the application of metallurgical techniques to forensic sciences (Rittel and Faingold), Jan., 210
- Processing photographic films by infrared inspection (Jones), May, 756
- Processing protocol for drug residue and latent print evidence (Nielson and Katz), Nov., 1463
- Quantitation of phenyl-2-propanone using highperformance liquid chromatography (Sottolano), Nov., 1415
- Rapid clay mineralogical analysis for forensic science investigation—clay mineralogy over the short distances (Marumo, Nagatsuka, and Oba), Nov., 1360
- Recovery of latent prints and drug residues from a problem porous surface (Nielson and Katz), Nov., 1506
- Regional cooperation and regional centers among forensic science programs in the United States (Gaensslen and Lee), July, 1069
- Research experience and future criminalists (Smith, Liu, and Lindquist), July, 1074

- Sex identification in fresh blood and dried bloodstains by a nonisotopic deoxyribonucleic acid (DNA) analyzing technique (Kobayashi, Nakauchi, Nakahori, Nakagome, and Matsuzawa), May, 613
- Simple pattern method for alpha₂ HS-glycoprotein typing (Sebetan), July, 1031
- Some special observations of infrared luminescence (Cantu and Prough), May, 638
- Teaching ethics in a forensic science curiculum (Peterson), July, 1061
- Unusual variant of blood group A (Tumosa and Dowd), Nov., 1503

Free carnitine

Regional study of free fatty acids and free carnitine behavior in cardiac tissue in relation to different causes of death (Lachica, Villanueva, and Luna), Nov., 1483

Free fatty acids

Regional study of free fatty acids and free carnitine behavior in cardiac tissue in relation to different causes of death (Lachica, Villanueva, and Luna), Nov., 1483

G

- Gas chromatography—see Chromatographic analysis
- Gas chromatography/mass spectrometry—see Chemical analysis
- Genetic typing
- Detection and use of salivary hemagglutinins for forensic blood grouping (Kobilinsky and Harrington), March, 396
- Examination of a contaminated seminal stain using absorption-elution and enzyme-linked immunosorbent assay (ELISA) (Bolton and Thorpe), May, 797
- Examination of vaginally inserted plastic tampon applicators for genetic markers and evidence of prior sexual intercourse (Springer, Laber, and Randall), Sept., 1139
- Group specific component subtyping in bloodstains by separator isoelectric focusing in micro-ultrathin polyacrylamide gels followed by immunoblotting (Alonso), Sept., 1267
- Hybrid ampholyte focusing technique for esterase D subtyping of evidentiary materials (Budowle and Gambel), May, 738
- Improved method for histological preparation of single hairs and dust samples morphological and immunological examination (Tanabe, Iskiyama, and Itakura), May, 767
- Micromethod for MN antigen grouping of dried bloodstains (Berns and Lötterle), Jan., 230
- Simple pattern method for alpha₂ HS-glycoprotein typing (Sebetan), July, 1031
- Tests of genetic markers on aborted fetal material (Reisner, Clark, and Shoffner), Sept., 1262
- Two-dimensional absorption-inhibition (Lee, Gaensslen, Pagliaro, and Novitch), Sept., 1127

Genomes

Repetitive deoxyribonucleic acid (DNA) and human genome variation—a concise review relevant to forensic biology (Fowler, Burgoyne, Scott, and Harding), Sept., 1111

Glass classifications

Classification and discrimination of sheet and container glasses by inductively coupled plasma-atomic emission spectrometry and pattern recognition (Koons, Fiedler, and Rawalt), Jan., 49

Glycogenated epithelial cells

Glycogenated squamous epithelial cells as a marker of foreign body penetration in sexual assault (Randall), March, 511

Group specific component

Group specific component subtyping in bloodstains by separator isoelectric focusing in micro-ultrathin polyacrylamide gels followed by immunoblotting (Alonso), Sept., 1267

Gunshot residues

- Detection of gunshot residue (GSR) particles of the bottom of discharged bullets (Bergman, Enzel, and Springer), July, 960
- Determination of barium in gunshot residue collection swabs using inductively coupled plasmaatomic emission spectrometry (Koons, Havekost, and Peters), Jan., 35

Н

Hair

- Improved method for histological preparation of single hairs and dust samples morphological and immunological examination (Tanabe, Iskiyama, and Itakura), May, 767
- Morphology and evidential significance of human hair roots (Petraco, Fraas, Callery, and De Forest), Jan., 68
- Simple, rapid, and unique hand techniques for cross-sectioning fibers and hair (Fong and Inami), March, 305

Haloperidol

High haloperidol concentrations in a traffic suicide (Johnson), May, 823

Handwriting

- Disguised writing: chronic or acute (Franck), May, 727
- Evolution of questioned document examination in the last 50 years (Hilton), Nov., 1310
- Microfilm documents: what are the boundaries in document examination (Hanna), Jan., 154
- Study of the handwriting of adolescents (Masson), Jan., 167

Heart-see Cardiovascular system

Height estimation—see Human identification Hemagglutinins

- Detection and use of salivary hemagglutinins for forensic blood grouping (Kobilinsky and Harrington), March, 396
- Detection of hemagglutinins in dried saliva stains and their potential use in blood typing (Harrington, Martin, and Kobilinsky), May, 628

Hematoma

Delayed traumatic intracerebral hematoma

(DTICH) and the determination of the manner of death. A case report and review of the literature (McFeeley and Blisard), May, 801

Heroin

- Epidemic of intravenous narcoticism deaths associated with the resurgency of black tar heroin (Sperry), Sept., 1156
- Fourier transform-infrared (FT-IR) characterization of the ethyl acetate complex of O⁶-acetylmorphine (Beckstead and Neville), Jan., 223
- Heroin, morphine, and hydromorphone determination in postmortem material by high performance liquid chromatography (Sawyer, Waterhouse, Doedens, and Forney), Sept., 1146

Herpes simplex virus

- Sudden death in a neonate as a result of herpes simplex infection (Traisman, Young, Lifschultz, Traisman, Benuck, and Chasnoff), Jan., 267
- High performance liquid chromatography—see Chromatographic analysis

Histomorphology

Use of histomorphology to estimate age (Stout), Jan., 121

Historical background

- Evolution of questioned document examination in the last 50 years (Hilton), Nov.,
- Ill-fated passenger steamer Sultana: an inland maritime mass disaster of unparalleled magnitude (Berryman, Potter, and Oliver), May, 842
- Wilton Marion Krogman, Ph.D. (1903-1987): the end of an era (İşcan), Nov., 1473

Homicide

- Cocaine and homicide in Memphis and Shelby County: an epidemic of violence (Harruff, Francisco, Elkins, Phillips, Fernandez), Sept., 1231
- Identification of a phosphoglucomutase 1 (PGM 1) variant in a case of murder/suicide (Franco and Goetz), July, 1050

Human identification

- Alterations in human bones and teeth as a result of restricted sun exposure and contact with corrosive agents (Ubelaker and Sperber), March, 540
- Barefoot impressions—a preliminary study of identification characteristics and population frequency of their morphological features (Laskowski and Kyle), March, 378
- Confidence intervals for estimates based on linear regression in forensic anthropology (Giles and Klepinger), Sept., 1218
- Effects of aging on the comparability of antemortem and postmortem radiographs (Sauer, Brantley, and Barondess), Sept., 1223
- Estimating actual height in the older individual (Galloway), Jan., 126
- Failure of use of cemental annulations in teeth to determine the age of humans (Miller, Dove, and Cottone), Jan., 137
- Identification of male bloodstains by dot hybridization of human Y chromosome-specific deoxyribonucleic acid (DNA) probe (Fukushima, Hasekura, and Nagai), May, 621

1536 JOURNAL OF FORENSIC SCIENCES

Human identification (cont.)

- Individuality of human palatal rugae (English, Robison, Summitt, Oesterle, Brannon, and Morlang), May, 718
- Medical evaluation of the victims of the 1986 Lake Nyos disaster (Wagner, Clark, Koenigsberg, and Decata), July, 899
- Osteological individuality indicative of migrant citrus laboring (Wienker and Wood), March, 562
- Photographic technique for the restoration of damaged radiographs (Dailey and Furue), Sept., 1273
- Present direction of research in forensic odontology (Katz and Cottone), Nov., 1319
- Racial identification from the midfacial skeleton with special reference to American Indians and whites (Gill, Hughes, Bennett, and Gilbert), Jan., 92
- Report on the use of Fully's anatomical method to estimate stature in military skeletal remains (Lundy), March, 534
- Sacralization of a sixth lumbar vertebra and its effect upon the estimation of living stature (Lundy), July, 1045
- Sex identification in fresh blood and dried bloodstains by a nonisotopic deoxyribonucleic acid (DNA) analyzing technique (Kobayashi, Nakauchi, Nakahori, Nakagome, and Matsuzawa), May, 613
- Sexing North American Eskimo and Indian innominate bones with acetabulum/pubis index (Schulter-Ellis and Hayek), May, 697
- Simple overlay system for data comparison in dental identification (Jones), Jan., 254
- Technique to enhance fingerprinting of mummified fingers (Haglund), Sept., 1244
- Tooth mark artifacts and survival of bones in animal scavenged human skeletons (Haglund, Reay, and Swindler), July, 985
- Use of histomorphology to estimate age (Stout), Jan., 121

Hydrogen sulfide

Extractive alkylation and gas chromatographic analysis of sulfide (Kage, Nagata, Kimura, and Kudo), Jan., 217

Hydromorphone

Heroin, morphine, and hydromorphone determination in postmortem material by high performance liquid chromatography (Sawyer, Waterhouse, Doedens, and Forney), Sept., 1146

Hypertension

Pheochromocytoma and sudden death as a result of cerebral infraction in Turner's syndrome: report of a case (Knisely, Sweeney, and Ambler), Nov., 1497

I-K

Identification systems

Probability analysis and the evidential value of bolt arrangements (Even, Bergman, Springer, and Feingold), Sept., 1278

Image enhancement system

- Accurate method of focusing for infrared photography (Rademacher), May, 764
- Examination of sequence of strokes with an image enhancement system (Schuetzner), Jan., 244

Immunoassay

- Examination of a contaminated seminal stain using absorption-elution and enzyme-linked immunosorbent assay (ELISA) (Bolton and Thorpe), May, 797
- Identification of human urinary stains by enzymelinked immunosorbent assay for human uromucoid (Tsutsumi, Okajima, Sato, and Katsumato), Jan., 237
- Incidence of cannabinoids in medical examiner urine specimens (Isenschmid and Caplan), Nov., 1421
- Immunoelectrophoresis—see Electrophoresis Immunohistochemistry

Improved method for histological preparation of single hairs and dust samples morphological and immunological examination (Tanabe, Ishiyama, and Itakura), May, 767

Impressions

- Association between victim's clothing and fabric impressions in grease (Wilson), May, 829
- Bite mark impressions: a review of techniques and materials (Benson, Cottone, Bomberg, and Sperber), Sept., 1238
- Evaluation of the air bubbles present in polyurethane shoe outsoles as applicable in footwear impression comparisons (Music and Bodziak), Sept., 1185
- Letter quality impact printer hammer impressions (Anthony), May, 779

Inductively coupled plasma-atomic emission spectrometry—see Spectroscopic analysis

Information systems

- Computer-assisted postmortem identification (CAPMI) system: a computer-based identification program (Lorton, Rethman, and Friedman), July, 977
- Infrared inspection
- Processing photographic films by infrared inspection (Jones), May, 756

Infrared luminescence-see Luminescence

Injuries

- Cervical airway injuries as a result of impact with steering wheel rim (Mittleman), Sept., 1198
- Delayed, traumatic intracerebral hematoma (DTICH) and the determination of the manner of death. A case report and review of the literature (McFeeley and Blisard), May, 801

Inks

- Comments on the accelerated aging of ink (Cantu), May, 744
- Erasable felt tip writing instrument detection (Zimmerman, Doherty, and Mooney), May, 709
- Laser examination as an additional nondestructive method of ink differentiation (Zimmerman and Mooney), March, 310
- Transmission and reflectance microspectrophotometry of inks (Zeichner, Levin, Klein, and Novoselsky), Sept., 1171

Isoelectric focusing

- Alternative, effective substrate for erythrocyte acid phosphatase phenotype determinations (Budowle and Gambel), July, 915
- Fast isoelectric focusing of some polymorphic proteins and enzymes in miniaturized gels using an automated system (Carracedo, Andrade-Vide, Rodriguez-Calvo, Montiel, and Lareu), Nov., 1301
- Group specific component subtyping in bloodstains by separator isoelectric focusing in micro-ultrathin polyacrylamide gels followed by immunoblotting (Alonso), Sept., 1267
- Hybrid ampholyte focusing technique for esterase D subtyping of evidentiary materials (Budowle and Gambel), May, 738
- Simple pattern method for alpha₂ HS-glycoprotein typing (Sebetan), July, 1031

Jurisprudence

- Child abuse reporting trends: a unprecedented threat to confidentiality (Weinstock and Weinstock), March, 418
- Claims of psychiatric injury after alleged false arrest (Perr), Jan., 21
- Presence of counsel at forensic psychiatric examinations (Rachlin and Schwartz), July, 1008

Keys

Examination techniques for determining whether or not a key is an original or a duplicate (Springer, Bergman, and Feingold), Nov., 1355

Wilton Marion Krogman

Wilton Marion Krogman, Ph.D. (1903-1987): the end of an era (İşcan), Nov., 1473

L

Laboratories

- Do forensic science graduate programs fulfill the needs of the forensic science community? (Higgins and Selavka), July, 1015
- Forensic science laboratory/forensic science program cooperation and relationships: the view from the forensic science laboratory (Lee and Gaensslen), July, 1071
- Medical model for criminalistics education (Stoney), July, 1086
- Quantitation of phenyl-2-propanone using highperformance liquid chromatography (Sottolano), Nov., 1415

Lasers

- Comparison of laser and high-intensity quartz arc tubes in the detection of body secretions (Auvdel), July, 929
- Laser examination as an additional nondestructive method of ink differentiation (Zimmerman and Mooney), March, 310
- 5-Methoxyninhydrin: a reagent for the chemical development of latent fingerprints that is compatible with the copper-vapor laser (Almog and Hirshfeld), July, 1027
- Some special observations of infrared luminescence (Cantu and Prough), May, 638
- Use of frequency-doubled neodymium:yttrium

aluminum garnet (Nd:YAG) laser for enhancement of weak bloody fingerprints (Cheng), July, 1022

Last Word Society

- Ill-fated passenger steamer *Sultana:* an inland maritime mass disaster of unparalleled magnitude (Berryman, Potter, and Oliver), May, 842 Lesions
 - athological
- Pathological spectrum of the lung in cases of violent death: Part 1. Lesion classification (Ferrer, Castellano, Bona, and Plaza), March, 480
- Pathological spectrum of the lung in cases of violent death: Part II. Clinicopathologic correlation (Ferrer, Castellano, and Plaza), March, 490

Letters to the editor

- Anaphylactic deaths (Weedn), Sept., 1108
- Author's reply (Greenberg), Jan., 6
- Authors' reply (Hayward and Fox), Jan., 19
- Authors' response (Davison and Cohle), Sept. 1106
- Author's response (Fong), May, 610
- Author's response (Greenberg), Jan., 7
- Author's response (Kaplan), Jan., 8
- Authors' response (Lifschultz, Donoghue, Leestma, and Boade), Nov., 1307
- Author's response (Lowry), Jan., 14
- Authors' response (Miller, Dove, and Cottone), Nov., 1305
- Authors' response (Stoney and Thornton), Jan., 11
- Discussion of "a critical analysis of quantitative fingerprint individuality models" (Kingston), Jan., 9
- Discussion of "a guide to the rapid screening, identification, and comparison of synthetic fibers in dust samples" (Petraco), March, 304
- Discussion of "an attempt at determining probabilities in human scalp hair comparison" (Lalonde), July, 884
- Discussion of "a unique missile in a homicide victim: the Brenneke shotgun slug" (Rao), March, 304
- Discussion of "embolization of cotton pledgets following insertion of porcine cardiac valve bioprostheses" (Crimboli), Nov., 1306
- Discussion of "failure of use of cemental annulations in teeth to determine the age of humans" (Lorton), Nov., 1305
- Discussion of "histologic detection of fat emboli" (Durigon, Barrès, Guillon, and Paraire), Sept., 1106
- Discussion of "results of a study to determine the probability of chance match occurrences between fibers known to be from different sources" (Gaudette and Binder), May, 607
- Discussion of "statistical evaluation of truncated breath alcohol test measurements" (Gullberg), Sept., 110
- Discussion of "the bite mark standards reference scale—ABFO No. 2" (Ebert), March, 301
- Discussion of "effect of hypothermia on breathalcohol analysis" (Hodgson), Jan., 18
- Discussion of "free radical production from con-

Letters to the editor (cont.)

- trolled low-energy fires: toxicity considerations" (Lachocki and Pryor), Jan., 13
- Discussion of "pseudoabuse-the misdiagnosis of child abuse" (Alexander and Sivan), Jan., 7
- Discussion of "reliability of the scoring system of the American Board of Forensic Odontology for human bite marks" (Vale, Rawson, Sperber, and Herschaft), Jan., 20
- Discussion of "seat belts and human rights: an appraisal" (King), Jan., 6
- Discussion of "seat belts and human rights: an appraisal" (Petrucelli), Jan., 5
- Do electronic bone healing devices interfere with breath testing instruments? (McLaughlin, Reis, and Dal Cortivo), Nov., 1307
- Duplicating film with an embossed dot (Askin), Jan., 15
- Hazards in the forensic science laboratory: legal implications (Joling), July, 887
- Interpretation of blood and urine cannabinoid concentrations (McBay), July, 875
- Literary retrials of notable forensic science cases—convoluted history for sale (Doud), Jan., 15
- Recent application of DNA analysis to issues of paternity (Kobilinsky and Levine), Sept., 1107
- SOFT position statement on HHS guidelines for forensic toxicology laboratory analyses (McGee), July, 883

Lipids

Stability of plasma total cholesterol, triglycerides, and apolipoproteins B and A-I during the early postmortem period (Särkioja, Yla-Herttuala, Solakivi, Nikkari, and Hirvonen), Nov., 1432

Litigation

Claims of psychiatric injury after alleged false arrest (Perr), Jan., 21

Locks

Examination techniques for determining whether or not a key is an original or a duplicate (Springer, Bergman, and Feingold), Nov., 1355

Luminescence

- Extinction-type photometering technique for lowlight-level luminance measurements in accident investigations (Hyzer), March, 530
- Some special observations of infrared luminescence (Cantu and Prough), May, 638

Lungs

- Pathological spectrum of the lung in cases of violent death: Part 1. Lesion classification (Ferrer, Castellano, Bona, and Plaza), March, 480
- Pathological spectrum of the lung in cases of violent death: Part II. Clinicopathologic correlation (Ferrer, Castellano, and Plaza), March, 490

М

Mail tampering

Alleged tampering with mail of Dr. Yelena Bonner (Grantham), May, 835

Marijuana

- Chromatographic and spectroscopic profiles of *Cannabis* of different origins: Part I (Brenneisen and ElSohly), Nov., 1385
- Drug use by tractor-trailer drivers (Lund, Preusser, Blomberg, and Williams), May, 648
- Incidence of cannabinoids in medical examiner urine specimens (Isenschmid and Caplan), Nov., 1421

Mass disasters-see Human identification

Matching Color match

Color matching within a fiber data collection (Hartshorne and Laing), Nov., 1345

Mecloqualone

Identification of nitromethaqualone and its differentiation from some positional isomers (Clark), July, 1035

Medical care facilities

Causes of death of patients in an institution for the developmentally disabled (Blisard, Martin, Brown, Smialek, Davis, and McFeeley), Nov., 1457

Meningococcemia

Postmortem diagnosis of meningococcemia by detection of capsular polysaccharides (Challener, Morrissey, and Jacobs), March, 336

Mental illness

- Childhood identification and prophylaxis of antisocial personality disorder (Bloomingdale and Bloomingdale), Jan., 187
- Evaluation of sudden death in psychiatric patients with special reference to phenothiazine therapy: forensic pathology (Laposata, Hale, and Poklis), March, 432

Metallurgical analysis

On the application of metallurgical techniques to forensic sciences (Rittel and Faingold), Jan., 210

Metals

On the application of metallurgical techniques to forensic sciences (Rittel and Faingold), Jan., 210

Methaqualone

Identification of nitromethaqualone and its differentiation from some positional isomers (Clark), July, 1035

5-Methoxyninhydrin

5-Methoxyninhydrin: a reagent for the chemical development of latent fingerprints that is compatible with the copper-vapor laser (Almog and Hirshfeld), July, 1027

4-Methyl aminorex (U4EuH)

Fatality involving U4Euh, a cyclic derivative of phenylpropanolamine (Davis and Brewster), March, 549

Methylene blue

- Methylene blue revisited: the search for a troublefree erasure sensitive powder (Riker and Lewis), May, 773
- 3,4-Methylenedioxymethamphetamine
- 3,4-Methylenedioxymethamphetamine (MDMA) and other amphetamine derivatives (Bost), March, 576

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP): one designer drug and serendipity (Weingarten), March, 588

Microfilm

Microfilm documents: what are the boundaries in document examination (Hanna), Jan., 154

Microscopy

- Assessment of the value of blue, red, and black cotton fibers as target fibers in forensic science investigations (Grieve, Dunlop, and Haddock), Nov., 1332
- Dye batch variation in textile fibers (Wiggins, Cook, and Turner), July, 998
- Identification of wooden instrument by scanning electron microscopy from splinters left in victim (Adelman, Peterson, and Sorger), May, 787
- Morphology and evidential significance of human hair roots (Petraco, Fraas, Callery, and De Forest), Jan., 68
- Scanning electron microscopy and electron probe X-ray microanalysis (Ikeda, Watanabe, Harada, and Suzuki), Nov., 1328
- Microspectrophotometry—see Spectroscopic analysis

Minerals

Rapid clay mineralogical analysis for forensic science investigation—clay mineralogy over the short distances (Marumo, Nagatsuka, and Oba), Nov., 1360

Miniaturized gels

Fast isolectric focusing of some polymorphic proteins and enzymes in miniaturized gels using an automated system (Carracedo, Andrade-Vide, Rodriguez-Calvo, Montiel, and Lareu), Nov., 1379

Mitral valve prolapse

Sudden death in mitral valve prolapse (Scala-Barnett and Donoghue), Jan., 84

Morphine

- Gas chromatographic/mass spectrometric analysis of morphine and codeine in human urine of poppy seed eaters (ElSohly, Stanford, Jones, ElSohly, Snyder, and Pedersen) March, 347
- Heroin, morphine, and hydromorphone determination in postmortem material by high performance liquid chromatography (Sawyer, Waterhouse, Doedens, and Forney), Sept., 1146

Motor vehicle accidents

Traumatic false aneurysm of descending aorta with aortoesophageal fistula (Swanson and Gaffey), May, 816

Mummification

Technique to enhance fingerprinting of mummified fingers (Haglund), Sept., 1244

Musculoskeletal system

- Age related changes in the human plastron: a roentgenographic and morphologic study (Mc-Cormick and Stewart), Jan., 100
- Alterations in human bones and teeth as a result of restricted sun exposure and contact with corrosive agents (Ubelaker and Sperber), March. 540

Effects of aging on the comparability of antemor-

tem and postmortem radiographs (Sauer, Brantley, and Barondess), Sept., 1223

- Estimating actual height in the older individual (Galloway), Jan., 126
- Method of orientation of skull and camera for use in forensic photographic investigation (Mc-Kenna), May, 751
- Osteological individuality indicative of migrant citrus laboring (Wienker and Wood), March, 562
- Racial identification from the midfacial skeleton with special reference to American Indians and whites (Gill, Hughes, Bennett, and Gilbert), Jan., 92
- Report on the use of Fully's anatomical method to estimate stature in military skeletal remains (Lundy), March, 534
- Sacralization of a sixth lumbar vertebra and its effect upon the estimation of living stature (Lundy), July, 1045
- Sexing North American Eskimo and Indian innominate bones with acetabulum/pubis index (Schulter-Ellis and Hayek), May, 697
- Tooth mark artifacts and survival of bones in animal scavenged human skeletons (Haglund, Reay, and Swindler), July, 985
- Use of histomorphology to estimate age (Stout), Jan., 121

N-0

Neuropathology

Spectrum of neuropathologic findings in deaths associated with seizure disorders (Blisard and McFeeley), July, 910

Ninhydrin

Use of frequency-doubled neodymium:yttrium aluminum garnet (Nd:YAG) laser for enhancement of weak bloody fingerprints (Cheng), July, 1022

Nitromethaqualone

Identification of nitromethaqualone and its differentiation from some positional isomers (Clark), July, 1035

Odontology

- Alterations in human bones and teeth as a result of restricted sun exposure and contact with corrosive agents (Ubelaker and Sperber), March, 540
- Bite mark impressions: a review of techniques and materials (Benson, Cottone, Bomberg, and Sperber), Sept., 1238
- Bite mark standard reference scale—ABFO No. 2 (Hyzer and Krauss), March, 498
- Computer-assisted postmortem identification (CAPMI) system: a computer-based identification program (Lorton, Rethman, and Friedman), July, 977
- Failure of use of cemental annulations in teeth to determine the age of humans (Miller, Dove, and Cottone), Jan., 137
- Individuality of human palatal rugae (English, Robison, Summitt, Oesterle, Brannon, and Morlang), May, 718

Odontology (cont.)

- Method of orientation of skull and camera for use in forensic photographic investigation (Mc-Kenna), May, 751
- Photographic technique for the restoration of damaged radiographs (Dailey and Furue), Sept., 1273
- Present direction of research in forensic odontology (Katz and Cottone), Nov., 1319
- Scanning electron microscopy and electron probe X-ray microanalysis (Ikeda, Watanabe, Harada, and Suzuki), Nov., 1328
- Simple overlay system for data comparison in dental identification (Jones), Jan., 254

Overlays

Simple overlay system for data comparision in dental identification (Jones), Jan., 254

P

- Palatal rugae
- Individuality of human palatal rugae (English, Robison, Summitt, Oesterle, Brannon, and Morlang), May, 718

Papers

- Comments on the accelerated aging of ink (Cantu), May, 744
- Electrostatic detection apparatus (ESDA) and its effects on latent prints on paper (Moore), March, 357

Paternity

Establishing paternity using minisatellite DNA probes when the putative father is unavailable for testing (Odelberg, Demers, Westin, and Hossaini), July, 921

Pathology and biology

- Amitriptyline overdose versus sudden infant death syndrome in a two-month-old white female (Perrot), Jan., 272
- Asphyxial deaths as a result of aspiration of dental appliances: a report of three cases (Adelman), March, 389
- Autodegradation of deoxyribonucleic acid (DNA) in human rib bone and its relationship to the time interval since death (Perry, Bass, Riggsby, and Sirotkin), Jan., 144
- Autoerotic asphyxial death following television broadcast (O'Halloran and Loveli), Nov., 1491
- Cardiac blood pH as a possible indicator of postmortem interval (Sawyer, Steup, Martin, and Forney), Nov., 1439
- Cardiac injury during valve replacement surgery (Hawley, Kennedy, Pless, Gauger, and Waller), Jan., 276
- Case of panhypogammaglobulinemia masquerading as child abuse (Copeland), Nov., 1493
- Causes of death of patients in an institution for the developmentally disabled (Blisard, Martin, Brown, Smialek, Davis, and McFeeley), Nov., 1457
- Cervical airway injuries as a result of impact with steering wheel rim (Mittleman), Sept., 1198

- Cranial arteriovenous malformation: suicide by exsanguination (Gauger and Herrmann), Jan., 283
- Death from pool chlorine—an unusual case (Rao and Hearn), May, 812
- Delayed traumatic intracerebral hematoma (DTICH) and the determination of the manner of death. A case report and review of the literature (McFeeley and Blisard), May, 801
- Determination of cause and mode of death before and after medicolegal autopsy: a comparative study (Segerberg-Konttinen), March, 441
- Dragging death: a case in point (Dix and Bolesta), May, 826
- Establishing paternity using minisatellite DNA probes when the putative father is unavailable for testing (Odelberg, Demers, Westin, and Hossaini), July, 921
- Estimation of postmortem interval based on the third component of complement (C3) cleavage (Kominato, Harada, Yamazaki, and Misawa), March, 404
- Evaluation of sudden death in psychiatric patients with special reference to phenothiazine therapy: forensic pathology (Laposata, Hale, and Poklis), March, 432
- Group specific component subtyping in bloodstains by separator isoelectric focusing in micro-ultrathin polyacrylamide gels followed by immunoblotting (Alonso), Sept., 1267
- Identification of a phosphoglucomutase 1 (PGM 1) variant in a case of murder/suicide (Franco and Goetz), July, 1050
- Identification of human urinary stains by enzymelinked immunosorbent assay for human uromucoid (Tsutsumi, Okajima, Sato, and Katsumato), Jan., 237
- Identification of wooden instrument by scanning electron microscopy from splinters left in victim (Adelman, Peterson, and Sorger), May, 787
- Incidence of cannabinoids in medical examiner urine specimens (Isenschmid and Caplan), Nov., 1421
- Influence of storage temperature and chemical preservation on the stability of succinylcholine in canine tissue (Baldwin and Forney), March, 462
- Medical investigation of airship accidents (Stahl, McMeekin, Ruehle, and Canik), July, 888
- Operational criteria for the determination of suicide (Rosenberg, Davidson, Smith, Berman, Buzbee, Gantner, Gay, Moore-Lewis, Mills, Murray, O'Carroll, and Jobes), Nov., 1445
- Pathological spectrum of the lung in cases of violent death: Part 1. Lesion classification (Ferrer, Castellano, Bona, and Plaza), March, 480
- Pathological spectrum of the lung in cases of violent death: Part II. Clinicopathologic correlation (Ferrer, Castellano, and Plaza), March, 490
- Patterns in sharp force fatalities—a comprehensive forensic medical study: Part 2. Suicidal sharp force injury in the Stockholm area 1972-1984 (Karlsson, Ormstad, and Rajs), March 448

- Pheochromocytoma and sudden death as a result of cerebral infarction in Turner's syndrome: report of a case (Knisely, Sweeney, and Ambler), Nov., 1497
- Postmortem diagnosis of meningococcemia by detection of capsular polysaccharides (Challener, Morrissey, and Jacobs), March, 336
- Regional study of free fatty acids and free carnitine behavior in cardiac tissue in relation to different causes of death (Lachica, Villanueva, and Luna), Nov., 1483
- Repetitive deoxyribonucleic acid (DNA) and human genome variation—a concise review relevant to forensic biology (Fowler, Burgoyne, Scott, and Harding), Sept., 1111
- Shielding capacity of the standard military flak jacket against ballistic injury to the kidney (O'Connell, Frazier, Clark, Christenson, Keyes, and Josselson), March, 410
- Shotcup petal abrasions in close range .410-caliber shotgun injuries (Dowling, Dickinson, and Cooke), Jan., 260
- Spectrum of neuropathologic findings in deaths associated with seizure disorders (Blisard and McFeeley), July 910
- Stability of plasma total cholesterol, triglycerides, and apolipoproteins B and A-I during the early postmortem period (Särkioja, Yla-Herttuala, Solakivi, Nikkari, and Hirvonen), Nov., 1432
- Sudden death following administration of radio contrast media (Edelstein), May, 734
- Sudden death in a neonate as a result of herpes simplex infection (Traisman, Young, Lifschultz, Traisman, Benuck, and Chasnoff), Jan., 267
- Sudden death in mitral valve prolapse (Scala-Barnett and Donoghue), Jan., 84
- Terminal ballistic characteristics of Hydra-Shok® ammunition: a description of three cases (Sperry and Sweeney), Jan., 42
- Tests of genetic markers on aborted fetal material (Reisner, Clark, and Shoffner), Sept., 1262
- Tissue distribution of ethosuximide and clobazam in a seizure related fatality (Fraser, Isner, and Heifetz), July, 1058
- Tooth mark artifacts and survival of bones in animal scavenged human skeletons (Haglund, Reay, and Swindler), July, 985
- Traumatic false aneurysm of descending aorta with aortoesophageal fistula (Swanson and Gaffey), May, 816
- Two-dimensional absorption-inhibition (Lee, Gaensslen, Pagliaro, and Novitch), Sept., 1127
- Unusual case of child abuse homicide/suicide (Fain and McCormick), March, 554
- Unusual, deep lingual hemorrhage as a consequence of ligature strangulation (Sperry), May, 806
- Vaginal fluid zinc concentration as a marker for intercourse (Rogers, Bernstein, Nakamura, Endahl, and Bhoopat), Jan., 77

Pedophilia

Predicting the effectiveness of treatment for pedophilia (Rowan), Jan., 204

Petroleum products

Fluorescence of petroleum products III. Three-dimensional fluorescence plots of petrolatumbased products (Gugel and Siegel), Nov., 1405

Pharmacokinetics

Correlation of plasma concentration and effects of succinylcholine in dogs (Baldwin and Forney), March, 470

Phenothiazine

- Evaluation of sudden death in psychiatric patients with special reference to phenothiazine therapy: forensic pathology (Laposata, Hale, and Poklis), March, 432
- Phenotyping-see Genetic typing

Phenyl-2-propanone

Quantitation of phenyl-2-propanone using highperformance liquid chromatography (Sottolano), Nov., 1415

Pheochromocytoma

Pheochromocytoma and sudden death as a result of cerebral infarction in Turner's syndrome: report of a case (Knisely, Sweeney, and Ambler), Nov., 1497

Phosphatases

- Alternative, effective substrate for erythrocyte acid phosphatase phenotype determinations (Budowle and Gambel), July, 915
- Vaginal fluid zinc concentration as a marker for intercourse (Rogers, Bernstein, Nakamura, Endahl, and Bhoopat), Jan., 77

Phosphoglucomutase

- Examination of vaginally inserted plastic tampon applicators for genetic markers and evidence of prior sexual intercourse (Springer, Laber, and Randall), Sept., 1139
- Identification of a phosphoglucomutase 1 (PGM 1) variant in a case of murder/suicide (Franco and Goetz), July, 1050

Photocopiers

Evolution of questioned-document examination in the last 50 years (Hilton), Nov., 1310

Photography

- Accurate method of focusing for infrared photography (Rademacher), May, 764
- Bite mark standard reference scale—ABFO No. 2 (Hyzer and Krauss), March, 498
- Processing photographic films by infrared inspection (Jones), May, 756

Physical anthropology

- Age related changes in the human plastron: a roentgenographic and morphologic study (Mc-Cormick and Stewart), Jan., 100
- Alterations in human bones and teeth as a result of restricted sun exposure and contact with corrosive agents (Ubelaker and Sperber), March, 540
- Confidence intervals for estimates based on linear regression in forensic anthropology (Giles and Klepinger), Sept., 1218
- Effects of aging on the comparability of antemortem and postmortem radiographs (Sauer, Brantley, and Barondess), Sept., 1223
- Estimating actual height in the older individual (Galloway), Jan., 126
- Osteological individuality indicative of migrant

1542 JOURNAL OF FORENSIC SCIENCES

Physical anthropology (cont.)

citrus laboring (Wienker and Wood), March, 562

- Racial identification from the midfacial skeleton with special reference to American Indians and whites (Gill, Hughes, Bennett, and Gilbert), Jan., 92
- Report on the use of Fully's anatomical method to estimate stature in military skeletal remains (Lundy), March, 534
- Sacralization of a sixth lumbar vertebra and its effect upon the estimation of living stature (Lundy), July, 1045
- Sexing North American Eskimo and Indian innominate bones with acetabulum/pubis index (Schulter-Ellis and Hayek), May, 697
- Use of histomorphology to estimate age (Stout), Jan., 121
- Wilton Marion Krogman, Ph.D. (1903-1987): the end of an era (İşcan), Nov., 1473

Plaster

Bullet ricochet from gypsum wallboard (Jordan, Bratton, Donahue, and Rowe), Nov., 1477

Poisoning

Dangerous information: product tampering and poisoning advice in revenge and murder manuals (Dietz), Sept., 1206

Polyethylene

Alternative methods for processing arson samples in polyester bags (Stackhouse and Gray), March, 515

Polyurethane

Evaluation of the air bubbles present in polyurethane shoe outsoles as applicable in footwear impression comparisons (Music and Bodziak), Sept., 1185

Polyvinylchloride

Comparison of black polyvinylchloride (PVC) tapes by pyrolysis gas chromatography (Williams and Munson), Sept., 1163

Poppy seeds

Gas chromatographic/mass spectrometric analysis of morphine and codeine in human urine of poppy seed eaters (ElSohly, Stanford, Jones, ElSohly, Snyder, and Pedersen) March, 347

Postmortem examinations

- Cardiac blood pH as a possible indicator of postmortem interval (Sawyer, Steup, Martin, and Forney), Nov., 1439
- Causes of death of patients in an institution for the developmentally disabled (Blisard, Martin, Brown, Smialek, Davis, and McFeeley), Nov., 1457
- Determination of cause and mode of death before and after medicolegal autopsy: a comparative study (Segerberg-Konttinen), March, 441
- Medical evaluation of the victims of the 1986 Lake Nyos disaster (Wagner, Clark, Koenigsberg, and Decata), July, 899
- Postmortem diagnosis of meningococcemia by detection of capsular polysaccharides (Challener, Morrissey, and Jacobs), March, 336
- Spectrum of neuropathologic findings in deaths associated with seizure disorders (Blisard and McFeeley), July 910

Postmortem interval

- Autodegradation of deoxyribonucleic acid (DNA) in human rib bone and its relationship to the time interval since death (Perry, Bass, Riggsby, and Sirotkin), Jan., 144
- Cardiac blood pH as a possible indicator of postmortem interval (Sawyer, Steup, Martin, and Forney), Nov., 1439
- Estimation of postmortem interval based on the third component of complement (C3) cleavage (Kominato, Harada, Yamazaki, and Misawa), March, 404
- Tooth mark artifacts and survival of bones in animal scavenged human skeletons (Haglund, Reay, and Swindler), July, 985

Preservation

Influence of storage temperature and chemical preservation on the stability of succinylcholine in canine tissue (Baldwin and Forney), March, 462

Printing equipment

Class defects in printwheel typescript (Behrendt), March, 328

Prisons

Name variation and aspects of body image among male offenders (Harry), Jan., 200

Privacy

Controversial ethical issues in forensic psychiatry: a survey (Weinstock), Jan., 176

Presence of counsel at forensic psychiatric examinations (Rachlin and Schwartz), July, 1008

Probability

Probability analysis and the evidential value of bolt arrangements (Even, Bergman, Springer, and Feingold), Sept., 1278

Product tampering

Dangerous information: product tampering and poisoning advice in revenge and murder manuals (Dietz), Sept., 1206

Prosthetic devices

- Asphyxial deaths as a result of aspiration of dental appliances: a report of three cases (Adelman), March, 389
- Cardiac injury during valve replacement surgery (Hawley, Kennedy, Pless, Gauger, and Waller), Jan., 276

Protective clothing

Shielding capacity of the standard military flak jacket against ballistic injury to the kidney (O'Connell, Frazier, Clark, Christenson, Keyes, and Josselson), March, 410

Proteins

Identification of human urinary stains by enzymelinked immunosorbent assay for human uromucoid (Tsutsumi, Okajima, Sato, and Katsumato), Jan., 237

Protocols

Processing protocol for drug residue and latent print evidence (Nielson and Katz), Nov., 1463

Psychiatric injuries

Claims of psychiatric injury after alleged false arrest (Perr), Jan., 21

Psychiatry

Child abuse reporting trends: an unprecedented

threat to confidentiality (Weinstock and Weinstock), March, 418

- Childhood identification and prophylaxis of antisocial personality disorder (Bloomingdale and Bloomingdale), Jan., 187
- Claims of psychiatric injury after alleged false arrest (Perr), Jan., 21
- Controversial ethical issues in forensic psychiatry: a survey (Weinstock), Jan., 176
- High haloperidol concentrations in a traffic suicide (Johnson), May, 823
- Name variation and aspects of body image among male offenders (Harry), Jan., 200
- Predicting the effectiveness of treatment for pedophilia (Rowan), Jan., 204
- Presence of counsel at forensic psychiatric examinations (Rachlin and Schwartz), July, 1008
- Pyrolysis gas chromatography—see Chromatographic analysis

Q-R

Quality assurance

Determination of cause and mode of death before and after medicolegal autopsy: a comparative study (Segerberg-Konttinen), March, 441

Quartz arc

Comparison of laser and high-intensity quartz arc tubes in the detection of body secretions (Auvdel), July, 929

Questioned documents

- Accurate method of focusing for infrared photography (Rademacher), May, 764
- Alleged tampering with mail of Dr. Yelena Bonner (Grantham), May, 835
- Class defects in printwheel typescript (Behrendt), March, 328
- Comments on the accelerated aging of ink (Cantu), May, 744
- Computer-aided seal discriminating system, (Tang), July, 969
- Disguised writing: chronic or acute (Franck), May, 727
- Electrostatic detection apparatus (ESDA) and its effects on latent prints on paper (Moore), March, 357
- Erasable felt tip writing instrument detection (Zimmerman, Doherty, and Mooney), May, 709
- Evolution of questioned document examination in the last 50 years (Hilton), Nov., 1310
- Examination of sequence of strokes with an image enhancement system (Schuetzner), Jan., 244
- Laser examination as an additional nondestructive method of ink differentiation (Zimmerman and Mooney), March, 310
- Letter quality impact printer hammer impressions (Anthony), May, 779
- Methylene blue revisited: the search for a troublefree erasure sensitive powder (Riker and Lewis), May, 773
- Microfilm documents: what are the boundaries in

document examination (Hanna), Jan., 154

- Study of the handwriting of adolescents (Masson), Jan., 167
- Transmission and reflectance microspectrophotometry of inks (Zeichner, Levin, Klein, and Novoselsky), Sept., 1171
- Race determination-see Human identification

Radio contrast media

Sudden death following administration of radio contrast media (Edelstein), May, 734

Radiographs

Photographic technique for the restoration of damaged radiographs (Dailey and Furue), Sept., 1273

Radioimmunossay

- Development of a radioimmunossay technique for the detection of human hemoglobin in dried bloodstains (Quarino and Kobilinsky), Nov., 1369
- Rape-see Criminal sex offenses

Regional cooperation

Regional cooperation and regional centers among forensic science programs in the United States (Gaenssien and Lee), July, 1069

Research

- Do forensic science graduate programs fulfill the needs of the forensic science community? (Higgins and Selavka), July, 1015
- Present direction of research in forensic odontology (Katz and Cottone), Nov., 1319
- Andrei Sakharov
- Alleged tampering with mail of Dr. Yelena Bonner (Grantham), May, 835

Saliva

- Detection and use of salivary hemagglutinins for forensic blood grouping (Kobilinsky and Harrington), March, 396
- Detection of hemagglutinins in dried saliva stains and their potential use in blood typing (Harrington, Martin, and Kobilinsky), May, 628
- Scale (ratio)
- Bite mark standard reference scale—ABFO No. 2 (Hyzer and Krauss), March, 498
- Scanning electron microscopy—see Microscopy

Seals (personal identification)

- Computer-aided seal discriminating system, (Tang), July, 969
- Seizure disorders
- Spectrum of neuropathologic findings in deaths associated with seizure disorders (Blisard and McFeeley), July 910

Semen

- Examination of a contaminated seminal stain using absorption-elution and enzyme-linked immunosorbent assay (ELISA) (Bolton and Thorpe), May, 797
- Examination of vaginally inserted plastic tampon applicators for genetic markers and evidence of prior sexual intercourse (Springer, Laber, and Randall), Sept., 1139

Sep-Pak® C₁₈ cartridges

Rapid isolation of benzodiazepines with Sep-Pak[®] C₁₈ cartridges (Suzuki, Seno, and Kumazawa), Sept., 1249

Sequence

Examination of sequence of strokes with an image enchancement system (Schuetzner), Jan., 244

Serology

- Detection of hemagglutinins in dried saliva stains and their potential use in blood typing (Harrington, Martin, and Kobilinsky), May, 628
- Development of a radioimmunossay technique for the detection of human hemoglobin in dried bloodstains (Quarino and Kobilinsky), Nov., 1369
- Micromethod for MN antigen grouping of dried bloodstains (Berns and Lötterle), Jan., 230
- Sex determination—see Human identification Shotguns
- Shotcup petal abrasions in close range .410-caliber shotgun injuries (Dowling, Dickinson, and Cooke), Jan., 260
- Skull-see Musculoskeletal system
- Sodium hypochlorite
- Death from pool chlorine—an unusual case (Rao and Hearn), May, 812
- Sodomy-see Criminal sex offenses

Soils

- Rapid clay mineralogical analysis for forensic science investigation—clay mineralogy over the short distances (Marumo, Nagatsuka, and Oba), Nov., 1360
- Spectrofluorimetry—see Spectroscopic analysis
- Spectroscopic analysis—see also Chemical analysis
- Assessment of the value of blue, red, and black cotton fibers as target fibers in forensic science investigations (Grieve, Dunlop, and Haddock), Nov., 1332
- Classification and discrimination of sheet and container glasses by inductively coupled plasma-atomic emission spectrometry and pattern recognition (Koons, Fiedler, and Rawalt), Jan., 49
- Fluorescence of petroleum products III. Three-dimensional fluorescence plots of petrolatumbased products (Gugel and Siegel), Nov., 1405
- Fourier transform-infrared (FT-IR) characterization of the ethyl acetate complex of O⁶-acetylmorphine (Beckstead and Neville), Jan., 223
- Recovery of latent prints and drug residues from a problem porous surface (Nielson and Katz), Nov., 1506
- Transmission and reflectance microspectrophotometry of inks (Zeichner, Levin, Klein, and Novoselsky), Sept., 1171

Stab wounds

Patterns in sharp force fatalities—a comprehensive forensic medical study: Part 2. Suicidal sharp force injury in the Stockholm area 1972-1984 (Karlsson, Ormstad, and Rajs), March 448

Statistical analysis

- Confidence intervals for estimates based on linear regression in forensic anthropology (Giles and Klepinger), Sept., 1218
- Statistical evaluation of truncated breath-alcohol test measurements (Gullberg), March, 507

Stature determination—see Human identification

Strangulation

Unusual, deep lingual hemorrhage as a consequence of ligature strangulation (Sperry), May, 806

Succinylcholine

- Correlation of plasma concentration and effects of succinylcholine in dogs (Baldwin and Forney), March, 470
- Influence of storage temperature and chemical preservation on the stability of succinylcholine in canine tissue (Baldwin and Forney), March, 462

Sudden infant death syndrome

Amitriptyline overdose versus sudden infant death syndrome in a two-month-old white female (Perrot), Jan., 272

Sugars

Identification of sugars in explosive residues by gas chromatography-mass spectrometry (Nowicki and Pauling), Sept., 1254

Suicide

- Cranial arteriovenous malformation: suicide by exsanguination (Gauger and Herrmann), Jan., 283
- High haloperidol concentrations in a traffic suicide (Johnson), May, 823
- Identification of a phosphoglucomutase 1 (PGM 1) variant in a case of murder/suicide (Franco and Goetz), July, 1050
- Operational criteria for the determination of suicide (Rosenberg, Davidson, Smith, Berman, Buzbee, Gantner, Gay, Moore-Lewis, Mills, Murray, O'Carroll, and Jobes), Nov., 1445
- Patterns in sharp force fatalities—a comprehensive forensic medical study: Part 2. Suicidal sharp force injury in the Stockholm area 1972-1984 (Karlsson, Ormstad, and Rajs), March 448
- Unusual case of child abuse homicide/suicide (Fain and McCormick), March, 554

Sultana

Ill-fated passenger steamer *Sultana:* an inland maritime mass disaster of unparalleled magnitude (Berryman, Potter, and Oliver), May, 842 Sungeimposition

Superimposition

Method of orientation of skull and camera for use in forensic photographic investigation (Mc-Kenna), May, 751

Surveys

- Appropriate educational background for entry level forensic scientists: a survey of practitioners (Siegel), July, 1065
- Forensic science laboratory/forensic science program cooperation and relationships: the view from the forensic science laboratory (Lee and Gaensslen), July, 1071
- Study of the handwriting of adolescents (Masson), Jan., 167

Symposium

Appropriate educational background for entry level forensic scientists: a survey of practitioners (Siegel), July, 1065

- Forensic science laboratory/forensic science program cooperation and relationships: the view from the forensic science laboratory (Lee and Gaensslen), July, 1071
- Medical model for criminalistics education (Stoney), July, 1086
- Regional cooperation and regional centers among forensic science programs in the United States (Gaensslen and Lee), July, 1069
- Research experience and future criminalists (Smith, Liu, and Lindquist), July, 1074
- Teaching ethics in a forensic science curriculum (Peterson), July, 1061

Synthetic fibers

Dye batch variation in textile fibers (Wiggins, Cook, and Turner), July, 998

Т

- Teeth-see Dentition
- Testimony
- Disguised writing: chronic or acute (Franck), May, 727

Therapeutic midadventure

- Cardiac injury during valve replacement surgery (Hawley, Kennedy, Pless, Gauger, and Waller), Jan., 276
- Thin-layer chromatography—see Chromatographic analysis

Tissues (biology)

Influence of storage temperature and chemical preservation on the stability of succinylcholine in canine tissue (Baldwin and Forney), March, 462

Tongue

Unusual, deep lingual hemorrhage as a consequence of ligature strangulation (Sperry), May, 806

Toolmarks

Examination techniques for determining whether or not a key is an original or a duplicate (Springer, Berman, and Feingold), Nov., 1355

Tooth marks

Tooth mark artifacts and survival of bones in animal scavenged human skeletons (Haglund, Reay, and Swindler), July, 985

Toxicology

- Chromatographic and spectroscopic profiles of *Cannabis* of different origins: Part I (Brenneisen and ElSohly), Nov., 1385
- Correlation of plasma concentration and effects of succinylcholine in dogs (Baldwin and Forney), March, 470
- Dangerous information: product tampering and poisoning advice in revenge and murder manuals (Dietz), Sept., 1206
- Designer drugs: past history and future prospects (Henderson), March, 569
- Drug use by tractor-trailer drivers (Lund, Preusser, Bomberg, and Williams), May, 648
- Epidemic of intravenous narcoticism deaths asso-

ciated with the resurgency of black tar heroin (Sperry), Sept., 1156

- Examination of illicit cocaine (LeBelle, Lauriault, Callahan, Latham, Chiarelli, and Beckstead), May, 662
- Extractive alkylation and gas chromatographic analysis of sulfide (Kage, Nagata, Kimura, and Kudo), Jan., 217
- Fatality involving U4Euh, a cyclic derivative of phenylpropanolamine (Davis and Brewster), March, 549
- Fourier transform-infrared (FT-IR) characterization of the ethyl acetate complex of O⁶-acetylmorphine (Beckstead and Neville), Jan., 223
- Gas chromatographic/mass spectrometric analysis of morphine and codeine in human urine of poppy seed eaters (ElSohly, Stanford, Jones, ElSohly, Snyder, and Pedersen) March, 347
- Heroin, morphine, and hydromorphone determination in postmortem material by high performance liquid chromatography (Sawyer, Waterhouse, Doedens, and Forney), Sept., 1146
- High haloperidol concentrations in a traffic suicide (Johnson), May, 823
- Identification of nitromethaqualone and its differentiation from some positional isomers (Clark), July, 1035
- Infant fatality involving ajmaline (Ikeda, Umetsu, Suzuki, Gonmori, and Takahashi), March, 558
- Influence of storage temperature and chemical preservation on the stability of succinylcholine in canine tissue (Baldwin and Forney), March, 462
- Introduction to Workshop: Designer Drugs (Cravey), March, 568
- Medical evaluation of the victims of the 1986 Lake Nyos disaster (Wagner, Clark, Koenigsberg, and Decata), July, 899
- 3,4-Methylenedioxymethamphetamine (MDMA) and other amphetamine derivatives (Bost), March, 576
- 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP): one designer drug and serendipity (Weingarten), March, 588
- Rapid isolation of benzodiazepines with Sep-Pak[®] C₁₈ cartridges (Suzuki, Seno, and Kumazawa), Sept., 1249

Trace evidence

Evidentiary value of the contents of hollow-point bullets (Smith and Harruff), July, 1052

Trauma-see Injuries

- **Turner's syndrome**
- Pheochromocytoma and sudden death as a result of cerebral infarction in Turner's syndrome: report of a case (Knisely, Sweeney, and Ambler), Nov., 1497

Typewriters

- Class defects in printwheel typescript (Behrendt), March, 328
- Evolution of questioned document examination in the last 50 years (Hilton), Nov., 1310
- Letter quality impact printer hammer impressions (Anthony), May, 779

U-Z

Urine

- Gas chromatographic/mass spectrometric analysis of morphine and codeine in human urine of poppy seed eaters (EISohly, Stanford, Jones, EISohly, Snyder, and Pedersen), March, 347
- Identification of human urinary stains by enzymelinked immunosorbent assay for human uromucoid (Tsutsumi, Okajima, Sato, and Katsumato), Jan., 237
- Incidence of cannabinoids in medical examiner urine specimens (Isenschmid and Caplan), Nov., 1421

Water-soaked material

Effects of water-soaking on firing distance estimations (Even, Bergman, Springer, and Klein), March, 319

Workshop

- Designer drugs: past history and future prospects (Henderson), March, 569
- Introduction to Workshop: Designer Drugs (Cravey), March, 568
- 3,4-Methylenedioxymethamphetamine (MDMA) and other amphetamine derivatives (Bost), March, 576
- 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP): one designer drug and serendipity (Weingarten), March, 588

Wound ballistics

Comparison of the terminal ballistics of full metal jacket 7.62-mm M80 (NATO) and 5.56-mm M193 military bullets: a study in ordance gelatin (Ragsdale and Sohn), May, 676

- Evidentiary value of the contents of hollow-point bullets (Smith and Harruff), July, 1052
- Shielding capacity of the standard military flak jacket against ballistic injury to the kidney (O'Connell, Frazier, Clark, Christenson, Keyes, and Josselson), March, 410
- Shotcup petal abrasions in close range .410-caliber shotgun injuries (Dowling, Dickinson, and Cooke), Jan., 260
- Terminal ballistic characteristics of Hydra-Shok® ammunition: a description of three cases (Sperry and Sweeney), Jan., 42

X-ray analysis

- Age related changes in the human plastron: a roentgenographic and morphologic study (Mc-Cormick and Stewart), Jan., 100
- Effects of aging on the comparability of antemortem and postmortem radiographs (Sauer, Brantley, and Barondess), Sept., 1223
- Photographic technique for the restoration of damaged radiographs (Dailey and Furue), Sept., 1273
- Scanning electron microscopy and electron probe X-ray microanalysis (Ikeda, Watanabe, Harada, and Suzuki), Nov., 1328

Vaginal fluid zinc concentration as a marker for intercourse (Rogers, Bernstein, Nakamura, Endahl, and Bhoopat), Jan., 77

Zinc