

# **BIBLIOGRAPHY**

## **ABC TRACE EVIDENCE EXAMINATIONS**

This bibliography is intended to be a guide for preparation for the ABC specialty examinations in Trace Evidence. The references in this guide should assist individuals preparing for the Trace Evidence Examination Core, Hairs & Fibers, and/or Paints & Polymers modules. These references are not intended to be all inclusive, but familiarity with the relevant sections of these references should give an individual a reasonable expectation of success on the examinations.

An applicant for Fellow status cannot expect to become sufficiently knowledgeable to pass a specialty examination simply by reading the references in the Study Guide. The Study Guide does not list all references covering all specialty examination questions. Additional study in unfamiliar subject areas will probably be necessary to achieve a passing grade.

Applicants who are preparing for only one of the specialty modules (Hairs & Fibers or Paints & Polymers) should concentrate on the references in the Core bibliography and the bibliography for the module for which they are preparing. Review of the KSA's for the individual specialty area should assist in defining those areas in which review is necessary.

### **A. Core**

DeForest, P.R., "Foundations of Forensic Microscopy," in *Forensic Science Handbook*, R. Saferstein, ed. (Englewood Cliffs, NJ: Prentice Hall, 1982) pp. 416-528

DeForest, P.R.; R.E. Gaensslen; H.C. Lee; *Forensic Science - An Introduction to Criminalistics* (New York: McGraw Hill Co., 1983)

Fisher, Barry A.J., A. Svensson, and O. Wendel, *Techniques of Crime Scene Investigation*, Fifth Edition. Ann Arbor: CRC PRes, 1993.

Kirk, P.L., *Crime Investigations*, (Thornton, J.I., ed.), Krieger Publishing Co., 1974

McCrone, W.C.; McCrone, L.B.; Delly, J.G.; *Polarized Light Microscopy*, (Ann Arbor, MI:Ann Arbor Science Publishers, Inc., 1978).

O'Hara, Charles, *Fundamentals of Criminal Investigation*, 2nd ed. Springfield, IL: Charles C. Thomas, 1956.

Palenik, Skip. "Microscopy and Microchemistry of Physical Evidence," in *Forensic Science Handbook*, Vol. II, R. Saferstein, ed. (Englewood Cliffs, NJ:Prentice Hall, 1988) pp. 161-208

Saferstein, Richard, *Criminalistics-An Introduction to Forensic Science*, Fourth Edition. Englewood Cliffs, NJ: Prentice Hall.

# BIBLIOGRAPHY

## ABC TRACE EVIDENCE EXAMINATIONS

### B. Hairs and Fibers Specialty Module Bibliography

- Bisbing, R.E., "The Forensic Identification and Association of Human Hair," *Forensic Science Handbook*, Saferstein, R., ed., Englewood Cliffs, N.J.: Prentice-Hall Inc., 1982, pp. 209-272.
- Catling, D.M., Grayson, J.E., *Identification of Vegetable Fibers*, London, England: Chapman Hall Ltd., 1982.
- Deadman, H.A., "Human Hair Comparison Based on Microscopic Characteristics," *Proceedings of the International Symposium on Forensic Hair Comparisons*, Washington, D.C.: Government Printing Office, 1985, pp. 45-49.
- Frei-Sulzer, M., "Coloured Fibres in Criminal Investigations with Special Reference to Natural Fibers," *Methods of Forensic Science*, Volume 4, A.S. Curry, ed., New York, N.Y. Interscience, 1965, pp. 141-175.
- Gaudette, B.D., "The Forensic Aspects of Textile Fiber Examinations," in *Forensic Science Handbook*, Vol. II, R. Saferstein, ed., Englewood Cliffs, N.J.: Prentice-Hall, 1988, pp. 209-272.
- Gaudette, B.D., "Probabilities in Human Pubic Hair Comparisons," *J. Forensic Sci.*, Vol. 21(3):514-517, 1976.
- Hicks, J.W., *Microscopy of Hair*, Issue 2, Washington, D.C.: U.S. Government Printing Office, 1977.
- Higuchi, et. al., "DNA Typing from Single Hairs," *Nature*, Vol. 332:543, 1988.
- King, L.S., "The Morphology and Occurrence of Human Hair Sheath Cells," *J. Forensic Sci. Soc.*, Vol. 22(3):267-269, 1982.
- Longhetti, A., Roche, G.W., "Microscopic Identification of Man-Made Fibers from the Criminalists Point of View," *J. Forensic Sci.*, 3:303-329, 1958.
- Moncreieff, *Man Made Fibers*, New York: Wiley-Interscience, 1970.
- Moore, T.D., Spence, L.E., et. al., *Identification of the Dorsal Guard Hairs of Some Mammals of Wyoming*, Cheyenne, WY: Wyoming Fish and Game Department, 1974.
- Parham, R.A., Gray, R.L., *The Practical Identification of Wood Pulp Fibers*, Atlanta, GA, Tappi Press, 1982.
- Rouen, R.A., Reeve, V.C., "A Comparison and Evaluation of Techniques for Identification of Synthetic Fibers," *J. Forensic Sci.*, 15:410-432, 1970.

# BIBLIOGRAPHY

## ABC TRACE EVIDENCE EXAMINATIONS

### C. Paints and Polymers Specialty Module Bibliography

Challinor, J.M., "Forensic Applications of Pyrolysis Gas Chromatography," *For. Sci. Intl.*, 21, pp. 269-285, 1983

Crown, D.A., *The Forensic Examination of Paint and Pigments*, Springfield, IL: Charles C. Thomas, 1968.

*Federation Series on Coatings Technology*, Series I and II, Federation of Societies for Coatings Technology, 1315 Walnut Street, Philadelphia, PA.

Fettis, Gordon, ed., *Automotive Paints and Coatings*, New York: VCH Publishers, 1994

Gothard, J.A., "Evaluation of Paint Flakes as Evidence", *J. Forensic Sci.*, 21(3), pp. 636-641, 1976.

Home, J.M., J.D. Twibell and K.W. Smalldon, "The Characterization of Motor Vehicle Body Fillers," *Med., Sci., and the Law*, 20(3), pp. 27-32, 1980

Infrared Spectroscopy Committee of the Chicago Society for Coatings Technology, *An Infrared Atlas for the Coatings Industry*

Linde, H.G. and R.P. Stone, "Application of the LeRosen Test to Paint Analysis," *J. Forensic Sci.*, 24(3), pp. 650-655, 1979.

May, R.W. and J. Porter, "The Evaluation of Common Methods of Paint Analysis," *J. Forensic Sci.*, 15(2):137-146, 1975.

Nolan, P.J. and R.H. Keeley, "Comparison and Classification of Small Paint Fragments by X-ray Microanalysis in the SEM," *Scanning Electron Microscopy Proceedings*, Vol. I, p. 449, 1979

Percy, R.F.E. and R.J. Audette, "Automotive Repaints - Just a New Look," *J. Forensic Sci.*, 25(1), pp. 189-239, 1980

Pliska, Thomas E., *An Overview of U.S. Automotive Painting Practice*, Chrysler Corporation (Material Engineering) 1988

*Proceedings of the International Symposium on the Analysis and Identification of Polymers*, US Department of Justice, Federal Bureau of Investigation, Washington, DC

Rodgers, P.G., et al., "The Classification of Automobile Paints by Diamond Cell Window Infrared Spectroscopy - Part I: Binders and Pigments," *Can. Soc. Forensic Sci. J.*, 9(2), pp. 11-14, 1976

Ryland, S.G. and R.J. Kopec, "The Evidential Value of Automobile Paint Chips," *J. Forensic Sci.*, 24(1):140-147, 1979

Schneberger, G.L., *Understanding Paint and Painting Processes*, 3rd Edition. Hitchcock, 1985.

ABC 405-TR, 8/96

Sward, G.G. (Ed.), *Paint Testing Manual - Physical and Chemical Examination of Paints, Varnishes and Lacquers*, 13th ed., Philadelphia, PA., American Society for Testing and Materials, 1972.

Thornton, John I., "Forensic Paint Examination", in *Forensic Science Handbook*, R. Saferstein, ed., Englewood Cliffs, NJ: Prentice-Hall, Inc., 1982.

Thornton, J.I., et al., "Solubility Characterization of Automotive Paints", *J. Forensic Sci.*, 28(4), pp. 1004-1007, 1983