

BPA BIBLIOGRAPHY

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I BLOOD PATTERN ANALYSIS PAPERS

- Adair, T.W., "**False wave cast-off; considering the mechanisms of stain formation**", IABPA News, 14(3), 1998
- Adair, T.W. and Gallardo, A.C., "**Considering the target surface in bloodstain pattern analysis: An unusual case of blood pooling**", J. Forensic Ident., 49(5), (1999), 485-493.
- Anderson, J.W., "**Bloodstain pattern interpretation – the state of the art**", The Colorado Policeman, Nov-Dec 1991.
- Anderson, J.W., "**Sherlockian theories**", Can. Soc. For. Sci. J., 25(2), (1992), 123-133.
- Anderson, J.W., "**Capillary distortion analysis**", IABPA News, 9(4), (1993), 11-13.
- Anon., "**The progenitor speaks on blood stains**" in Forensic Sleuth Rev. ?1996
- Balazas, K., Torvenyzeki Orvostan, Budapest, (1909), 476-503.
- Balthazard, V., Piedelievre, R., Desoille, H., and DeRobert, L., "**Study of projected drops of blood**", Ann. Med. Legale de Criminol. et Police Sci. Med. Sociale et Toxicol., 19(4), (1939), 265-323. (In French - **Translated**).
- Beck, T.R. and Beck, J.B., "**Elements of medical jurisprudence**", Lippincott, Phil., USA (1863), 134- 139, 145-146.
- Berg, S., "**Forensic science of traces**", In: Textbook of forensic medicine, ed. A. Ponsold, Georg Thieme, Stuttgart, 3rd edition, 1967, 477-508.
- Betz, P., Peschel, O., Stiefel, D., and Eisenmenger, W., "**Frequency of blood spatters on the shooting hand and of conjunctival petechiae following suicidal gunshot wounds to the head**", For. Sci. Int., 76(1), (1995), 47-53.
- Bevel, T., "**Geometric bloodstain interpretation**", FBI Law Enforcement Bulletin, 52(5), (1983), 7-10.
- Bevel, T. and Gardner, R., "**Bloodstain Pattern Analysis, Theory and Practice**", Published R.E. Stern, part of a series by CRC Press, 2nd edition 2001.
- Brettel, H.F. and Lattke, T., "**Determination of the volume of blood puddles**", Arch. Kriminol., 169(1,2), (1982), 12-16. (In German - **Translated**).
- Brinkmann, B., Madea, B. and Rand, S., "**Characteristics of micro-bloodstains**", Z. Rechtsmed., 94, (1985), 237-244. (In German - **Translated**).
- Brinkmann, B., Madea, B. and Rand, S., "**Factors affecting the morphology of bloodstains**", Beitr. Gerichtl. Med., 44, (1986), 67-73. (In German - **Translated**).
- Brown, A.R., "**Lizzie Borden: The legend, the truth, the final chapter**", Rutledge Hill Press, Nashville, USA, (1991),382.
- Bruning, A. and Wiethold, F., "**Die Untersuchung von Selbstmorderschusswaffen**", Dtsch. Z. Gerichtl. Med. 23, (1934), 71-82.
- Bunker, J.L. and Koeing, C., "**Interpreting bloodstain pattern lab manual**", Orlando Police Dept., Orlando. Fla., 1977.
- Burnett, B.R., "**Detection of bone and bone-plus-bullet particles in backspatter from close-range shots to heads**", J. For. Sci., 36(6), (1991), 1745-1752.

Carter, A.L., “ **Ballistic trajectories of blood - computer applications and workshop**”, IABPA Ann. Conf., Reno, Nevada, USA, Oct-Nov 1990.

Carter, A.L., "**Tracks user manual**", Forensic Computing of Ottawa Inc., Ottawa, Ontario, 1992.

Carter, A.L., “**Bloodstain pattern analysis with a video camera and a PC computer**”, IABPA News, 11(2), (1995) 15-16.

Carter, A. L. “**The Directional Analysis of Bloodstain Patterns Theory and Experimental Validation**”, Can. Soc. Forens. Sci. J. 34(4) (2001), 173-189.

Carter, A.L. and Laturus, P., “**A study of the use of a Fotoman digital camera for bloodstain pattern analysis**”, IABPA News, 11(2), (1995), 17-27.

Carter, A.L. and Podworny, E.J., "**Bloodstain pattern analysis with a scientific calculator**", Can. Soc. Forens. Sci. J., 24(1), (1991), 37-42.

Carter, G.S., “ **A consideration of coughed and spat-out blood**”, Forensic Science Service Report No. TN 817, August 1996.

Cartwright, A.J., "**Degrees of violence and blood spattering associated with manual and ligature strangulation. A retrospective study**", Med. Sci. Law, 35(4), (1995, 294-302.

Christman, D.V., "**A study to compare and contrast animal blood to human blood product**", Int. Assoc. Bloodstain Pattern Analysts News, 12(2), (1996), 10-25.

De Forest, P.R., "**A review of interpretation of bloodstain evidence at crime scenes**", Book review, J. Forens. Sci., 35(6), (1990), 1491-1495.

DeForest, P.R., Gaensslen, R.E., and Lee, H.C., in "**Reconstructions from bloodstain patterns**", in "**Forensic science: An introduction to criminalistics**", McGraw-Hill, N.Y, 1983, pp. 295-308.

Eckert, W.G. and James, S.H., "**Blood evidence in crime scene investigation**," INFORM Publications, Wichita, Kansas, 1987.

Eckert, W.G. and James, S.H., "**Interpretation of bloodstain evidence at crime scenes**", Elsevier Science Publishing Co., New York, 1989.

Emes, A. “**Expired Blood – A Review**”, Can. Soc. Forens. Sci. J. 34(4), (2001), 197-203.

Emes, A. and Price, C.J., “**Bloodstain Pattern Analysis**”, chapter in “**Crime Scene to Court – The essentials of Forensic Science**”, editor P. White, Royal Society of Chemistry, 2nd Edition 2003 (in press)

Englert, R., “**Pulverised bright green threads and high velocity blood spatter unravel the mystery of a crime; a homicide case study with no body**”, Int. Ass. Bloodstain Pattern Analysts News, 12(1) , (1996), 15.

Englert, R., “**Case study: The use of luminol and DNA testing to reconstruct a criminal event**”, AAFS, D15, (1998), 100.

Faulds, H., “**On the skin furrows of the hand**”, Nature, Oct 28, (1880), 605.

Faulds, H., “**Guide to fingerprint identification**”, Hanley, Wood, Mitchell & Co., (1905), 64.

Findley, J.F. and Findley J.C., “**Ultraviolet light and bloodstain analysis**” , Int. Ass. Bloodstain Pattern Analysts News, 12(1), (1996), 4-9.

Fischer, W.C., “**Addressing bloodstains in a three dimensional co-ordinate axis system**”, IABPA News, 10(3), (1994), 3-31.

Fischer, W.C., “**Velocity problems and pressure differentials in the formation of bloodstains**”, Letter to the Editor, IABPA Newsletter, June 2001.

- Florence, ?, and Fricon, ?, Title unknown, Arch. d'Anthropologie Criminelle de Criminologie? (1901).
- Fraser, G. N. **"A Murder in Moncton"** Can. Soc. Forens. Sci. J. 34(4) (2001) 205-208.
- Gardner, R.M., **"The role of logic in bloodstain analysis and crime scene reconstruction"**, IABPA News, 8 (3), (1992), 15-19.
- Gardner, R.M., **"Considerations in crime scene analysis"**, IABPA News, 10 (2), (1994), 10-18.
- Gardner, R.M., **"Computer aided analysis: capabilities and limitations"**, IABPA Newsletter, 11(3), (1995), 15-22.
- Gardner, R.M., **"Directionality in swipe patterns"**, J. Forensic Ident., 52(5), (2002), 579-593
- Gillies, D.A., **"Scientific evidence in the Sheppard case"**, Police Sci. Leg. Abs. and Notes, 4, (1956), 136-142.
- Gimeno, F.E. and Rini, G.A., **"Fill flash photo luminescence to photograph luminol bloodstain patterns"**, J. Forens. Ident., 39(3), (1989), 149-155.
- Glaister, J., **Medical jurisprudence, toxicology and public health"**, Edinburgh, (1902) 234-241.
- Gohringer, J., **"Can the height and direction of fall of a blood drop be determined from the blood pattern on various substrates?"**, Med. Diss., 1941, (in German).
- Griffin, T.J. and Anderson, J.W., **"Out on a tangent with bloodstain pattern interpretation"**, IABPA News, 9 (1), (1993), 3-5.
- Gross, H., **"Handbuch fur Untersuchungs"**, Richter, Polizeibeamte, Gendarmen u.s.w. 2nd ed. Leuschner & Lubensky, Graz, 1894.
- Gross, H., **"Criminal Investigation"**, 1st edition, Sweet & Maxwell, London, 1906.
- Gross, H., **"Kriminalistische Tatigkeit Und Stellung Des Arztes"** Branmuller, Win and Leipzig, 1908.
- Haberda, **"A specific formation of blood splashes"**, Vjschr. Viertel. Gerichtl. Med., 47, (1914), 380-382.
- Hentschel, P.R., **"Bloodstain pattern analysis without a scientific calculator"**, in Advances in Forensic Science, Proc. 13th Meeting of the Int. Ass. For. Sci., Dusseldorf, August 22-28th, 1993, pp 208-211.
- Herold, J., in **"A manual of legal medicine"**, Lippincott, Philadelphia, USA, 1989, pp. 229-237.
- Howell, R.E., **"Some aspects of bloodsplashes patterns"**, paper given at the 3rd national symposium on the forensic sciences, Australian Forensic science Society, Sydney, February, 1973, pp. 13-17.
- Hurley, M. and Pex, J., **Sequencing of bloody shoe impressions by blood spatter and blood droplet drying times"** IABPA News, Dec 1990.
- Illes, M. **"Canadian Bloodstain Pattern Analysis in the Netherlands"**, Can. Soc. Forens. Sci. J. 34(4) (2001) 167-171.
- James, S.H., **"Scientific and legal applications of bloodstain pattern interpretation"**, CRC Press LLC, 1999
- James, S.H. and Eckert W.G., **"Interpretation of bloodstain evidence at crime scenes"**, CRC Press LLC, 2nd edition 1999.
- James, S.H. and Edel, C.F., **"Bloodstain pattern interpretation, introduction to forensic sciences"**, Eckert, W.E Ed., CRC Press, Boca Raton, Fl., 1997.
- Jeserich, ?, **"Chemie und Photographie im Dienste der Verbrechensaufklarung"**, Berlin, Germany, 1930.

- Kappert, J., "**Experiments in the determination of the quantity of blood in bloodstains by means of its iron content**", Inaug. diss. Marburg 1969.
- Karger, B., Nusse, R., Schroeder, G., Wustenbecker, S. and Brinkmann, B., "**Backspatter from experimental close-range shots to the head - I Macrobackspatter**", Int. J. Legal Med., 109, (1996), 66-74.
- Karger, B., Nusse, R., Troger, H.D. and Brinkmann, B., "**Backspatter from experimental close-range shots to the head - II Microbackspatter and the morphology of bloodstains**", Int. J. Legal Med., 110, (1997), 27-30.
- Kirk, P.L., in "**Crime Investigation**," Wiley & Sons, N.Y., 1974, pp. 167-181.
- Kirk, P.L., "**Affidavit regarding State of Ohio v Sheppard**," Court of Common Pleas, Criminal Branch, No. 64571, 26th April 1955, 1-26. (See also "Assignment of error No. 29", 464-489).
- Kirk, P.L., "**Blood - A neglected criminalistics research area**," Law Enforcement Science and Technology, 1, Academic Press London, (1967), 267-279.
- Kish, P.E., and MacDonell, H.L., "**Bloodstain pattern interpretation in serial murder cases**", Abstract from 42nd Annual CSFS Meeting, Toronto, Ontario, Sept. 26-30th, 1995. In J. Can. Soc. For. Sci., 28(4), (1995), 244.
- Kish, P.E., and MacDonell, H.L., "**Absence of evidence is not evidence of absence**", Guest editorial, J. For. Ident. 46(2), (1996), 160-164.
- Knight, B., "**Wounds from rifled weapons**", in Forensic Pathology, 1st ed., Edward Arnold, 1991, pp 235-241.
- Laber, T.L., "**Diameter of a bloodstain as a function of origin, distance fallen, and volume of drop**", IABA Newsletter, 2(1), (1985), 12-16.
- Laber, T.L., "**Bloodspatter classification**", IABPA News, 2(4), (1985).
- Laber, T.L. and Epstein, B.P., "**Experiments and practical exercises in bloodstain pattern analysis**," Callan Publishing Inc., Minneapolis, USA, 1983.
- Laber, T.L. and Epstein, B.P., "**Clotting time studies**", issued on course "**Experiments and practical exercises in bloodstain pattern analysis**," Callan Publishing Inc., Minneapolis, USA, 1983.
- Laber, T.L. and Epstein, B.P., "**Terminal velocity determinations for water and blood droplets**" issued on course "**Experiments and practical exercises in bloodstain pattern analysis**," Callan Publishing Inc., Minneapolis, USA, 1983.
- Laber, T. L. and Epstein, B. P. "**Substrate Effects on the Clotting Time of Human Blood**", Can. Soc. Forens. Sci. J. 34(4), (2001), 209-214.
- Laternus, P., "**Measurement survey**", IABPA Conference, Montreal, Canada, Sept. 1991.
- Laternus, P., "**Computerised analysis of bloodstain patterns**", Identification Canada – The art and science of forensic identification, 21(1), 1998, 13.
- Lee, H.C., "**Estimation of the original volume of bloodstains**," Ident. News, July 1986. (Also IAI News 1986).
- Lee, H.C., Gaensslen, R.E. and Pagliaro, E.M., "**Determination of the volume of a single bloodstain**," APFS 38th Annual Meeting, Abstract B12, 1983.
- Lee, H.C., Gaensslen, R.E. and Pagliaro, E.M., "**Bloodstain volume estimation**," IABPA News 3(2), (1986), 47-54.
- Leers, O., "**Die forensische blutentersuchung**", von Julius Springer, Berlin, Germany, (1910), 1-21.
- LeRoy, H.A., "**Bloodstain pattern interpretation**," Ident. Newsletter, Can. Ident. Soc., Jan 1983.
- Lewis, A.A., and MacDonell, H.L., "**The evidence never lies**", Holt, Rinehart and Winston, New York, USA, 1984.

- Lochte, Th., **"On the corona formation of the drop of blood on impact and its relation to secondary spatter,"** Dtsch. Z. gerichtl. Med. 22,(1933), 387-396.(In German - **Translated**)
- Lytle, L.T. and Hegecock, D.G., **"Chemiluminescence in the visualisation of forensic bloodstains"**, J. Forens. Sci., 23, (1978), 550-562.
- MacDonell, H.L., **"Interpretation of bloodstains - Physical considerations,"** in Legal Med. Ann., ed. Wecht, C., Appleton-Century Crofts, N.Y., 1971, pp 91-136.
- MacDonell, H.L., **"Institute on the physical significance of bloodstain evidence,"** Law and Order, 21(7), (1973), 32-37.
- MacDonell, H.L., **"Preserving bloodstain evidence at crime scenes,"** Law and Order, 25, (1977), 66-69.
- MacDonell, H.L., **"Reconstruction of a homicide"**, Law and Order, 25, (1977), 26-31.
- MacDonell, H.L., **"Criminalistics - bloodstain examination,"** in Forensic Sciences, vol. 3, ed. Wecht, C., Matthew Bender, N.Y., 1981, pp. 1-26, 37.
- MacDonell, H.L., **"Bloodstain pattern interpretation"**, (1982), Lab. of For. Sci., Corning, N.Y. (Update of 1971 publication by MacDonell and Bialousz).
- MacDonell, H.L., **"Beverley isn't here, we see her face no more, Neville knew it wasn't H2O, he used...."**, abstract of paper presented at 37th annual meeting of Can. Soc. Forens. Sci., Ottawa, 1990, in Can. Soc. Forens. Sci. J., 23(4), (1990), 133.
- MacDonell, H.L., **"Letter re: Errors in blood droplet impact angle reconstruction using a protractor"**, J. Forens. Ident., 40(4), (1990), 193.
- MacDonell, H.L., **"Crime scene procedures"**, in For. Sci., Vol. 2., ed. Wecht, C.H., Matthew Bender, New York, 1990, 37, 1-26.
- MacDonell, H.L., **"On measuring the volume of very small drops of fluid blood and correlation of this relationship to bloodstain diameter"**, IABPA News, (1990), 12-21.
- MacDonell, H.L., **"Segments of history - The literature of bloodstain pattern interpretation"**, series of articles in IABPA News starting 8(1), March 1992.
- MacDonell, H.L., **"The literature of bloodstain pattern interpretation"**, IABPA News, 8(1), (1992), 3-12.
- MacDonell, H.L., **"The literature of bloodstain pattern interpretation – 1901-1910"**, IABPA News, 8(4), (1992), 5-22.
- MacDonell, H.L., **"The literature of bloodstain pattern interpretation – 1911-1920"**, IABPA News, 9(2), (1993), 4-10.
- MacDonell, H.L., **"The literature of bloodstain pattern interpretation – 1800s"**, J. For. Ident., 43(3), (1993), 313-334.
- MacDonell, H.L., **"The literature of bloodstain pattern interpretation"**, J. For. Ident., 43(3), (1993), 313-334.
- MacDonell, H.L., **"Bloodstain patterns"**, Golos Printing, Inc., New York, USA, 1993.
- MacDonell, H.L., **"The literature of bloodstain pattern interpretation – 1921-1930"**, IABPA News, 10(1), (1994), 6-14.
- MacDonell, H.L., **"A scientist's comments on the police officer as a bloodstain pattern analyst"**, IABPA News, 10(2), (1994), 6-9.
- MacDonell, H.L., **"Balthazard was great, but he didn't string us along"**, IABPA News, 11(1), (1995), 10-13.

- MacDonell, H.L., "**Commentary on Pizzola et al, J For. Sci., 31(1), (1986), 36-49**", J. For. Sci., 40(6), (1995), 928-929.
- MacDonell, H.L., "**No more strings, no more computers, just simple mathematics that's all it takes**", Int. Ass. Bloodstain Pattern Analysts News, 12(1) , (1996), 10-14.
- MacDonell, H.L., "**Crime scene evidence - Blood spatters and smears and other physical evidence**", Quinipiac Health Law, 1, (1996), 33-79.
- MacDonell, H.L., "**Bloodstain Patterns - revised**", Lab. of For. Sci., Corning, N.Y., 1997.
- MacDonell, H.L. and Bialousz, L.F., "**Flight characteristics and stain patterns of human blood**," National Institute of Law Enforcement and Criminal justice, US Dept. of Justice, Law Enforcement Assistance Administration, Washington D.C., 1971.
- MacDonell, H.L. and Bialousz, L.F., "**Laboratory manual for the geometric interpretation of human bloodstain evidence**," Lab. of For. Sci., Corning, N.Y., 2nd. ed. 1979.
- MacDonell, H.L. and Brooks, B.A., "**Detection and significance of blood in firearms**," Legal Medicine Annual 1977, ed. Wecht, C., Appleton- Century Crofts, N.Y., 1977, pp. 185-199.
- MacDonell, H.L. and Panchou, C.G., "**Bloodstain pattern interpretation**", Identification News, 29, (1979), 3-5.
- MacDonell, H.L. and Panchou, C.G., "**Bloodstain patterns on human skin**," J. Can. Soc. For. Sci., 12(3), (1979), 134-141.
- MacLean, B., Powley, K., and Dahlstrom, D. "**A Case Study Illustrating Another Logical Explanation for High Velocity Impact Spatter**" Can. Soc. Forens. Sci. J. 34(4) (2001) 191-195
- Madea, B., Sander, W., Brinkmann, B. and Rand, S., "**Analysis of bloodstain morphology by histological sectioning**", Beitr. Gerichtl. Med., 44, (1986), 81-85. (In German - **Translated**).
- Mathieson, M., "**Elucidation of splash patterns in blood**," M.Sc. Thesis, Strathclyde University, 1983.
- Messler, H., "**Investigations into the influence of textile substrates on bloodstains**", Med. Diss., Cologne, 1980, (in German).
- Messler, H., Berghaus, G. and Dotzaur, G., "**The effect of textile surface on its capacity to absorb blood**," Arch. F. Krim., 169, (1982), 99-113. (In German - **Translated**).
- Midkiff, C.R., "**Blood spatter pattern analysis: Two general and introductory treatments**", Sci. Sleuth Rev. ?1993
- Moore, C., "**Bloodstain pattern analysis – a forensic tool**", RCMP Gaz., 60(4), (1998), 16-21.
- Nunn, L., "**Effects of impact variations on blood droplets**", Work Placement Module, FSS Metropolitan Laboratory, Part requirement for B. Tech HNC Certificate, University of Westminster, 1996.
- Orsos, F., "**Die Bedeutung der Spurekunde in der Gerichtlichen Medizin**", Budapest, Orvoskepzes, (1938), 16-30.
- Ostermeyer, D., "**Bloodstain pattern identification subcommittee annual report**", J. For. Ident. 44(2), (1994), 209-214.
- Pex, J.O. and Vaughan, C.H., "**Observations of high velocity bloodspatter on adjacent surfaces**," J. For. Sci., 32(6), (1987), 1587-1594.
- Pickering, L.J., "**Investigation into whether there is a relationship between the maximum distance and height of secondary spatters using different target surfaces**", Research project, part requirement of M.Sc. in Forensic Science, King's College, University of London, 1994.
- Piotrowski, E., "**On the formation of bloodstains following gashes to the head**", Virchow Jahresber, B 1(1), (1895), 449-. (In German).

Piotrowski, E., "**über Entstehung, Form, Richtung und Ausbreitung der Blutspuren Nach Heibwunden der Kopfes**", K.K. Universitat, Wien, Austria, 1895.

Pizzola, P.A., "**Blood droplet dynamics and their implication for bloodstain pattern interpretation at crime scenes**," M.S. Thesis, John Jay College of Criminal Justice, City University of New York, 1984.

Pizzola, P.A., and De Forest, P. R., "**Author's response to MacDonell, H.L., J. For. Sci., 40(6), (1995), 928-929**", J. For. Sci. 40(6), (1995), 930-931.

Pizzola, P.A., Kodet-Sherwin, L., Perkins, J.C. and DeForest, P.R., "**Bloodstain pattern interpretation -Secondary spatter (Abstract)**," J. Can. Soc. For. Sci. 20(3), (1987), 77.

Pizzola, P.A., Roth, S. and De Forest, P.R., "**Blood droplet dynamics - I**", J. For. Sci., 31(1), (1986), 36-49.

Pizzola, P.A., Roth, S. and De Forest, P.R., "**Blood droplet dynamics - II**", J. For. Sci., 31(1), (1986), 50-64.

Podworny, E.J. and Carter, A.L., "**Computer modelling of the trajectory of blood droplets and bloodstain pattern analysis with a PC computer**", paper presented at IABPA 2nd annual training conference, Dallas, Texas, USA, Nov. 1989.

Porter, E.H., "**The Fall River tragedy: A history of the Borden murders**", R.H. Buffington, Geo., USA, 1893.

Radzicki, J., "**Bloodstain prints in practice and technology (Polish)**", Biblioteka Kryminalistyczna, Warsaw, Poland, 1960.

Rand, S., Madea, B. and Brinkmann, B., "**On the morphology of bloodstains**", Beitrage fur Gerichtlicher Medizin., 43, (1985), 259-264. (In German - **Translated**).

Rand, S., Madea, B. and Brinkmann, B., "**On the classification of bloodstain patterns in the case of splashes caused by impact**", Beitrage fur Gerichtlicher Medizin., 44, (1986), 75-80. (In German - **Translated**).

Raymond, M.A., "**An adequate alternative to the use of human blood for bloodstain pattern experimentations**", paper presented at the 12th Australian and New Zealand International Symposium on the Forensic sciences, Auckland, New Zealand, November 1994.

Raymond, M.A. and Hall, R.L., "**An interesting application of infra-red reflection photography to bloodsplash pattern interpretation**," For. Sci. Int., 31, (1986), 189-194.

Raymond, M.A., Liesgang, J., and Smith, E.R., "**High speed cinematography of blood droplet formation in flight - implications for crime scene reconstruction**", in Advances in Forensic Science, Proc. 13th Meeting of the Int. Ass. For. Sci., Dusseldorf, August 22-28th, 1993, pp 200-207.

Raymond, M.A., Smith, E.R. and Liesgang, J., "**Effects of blood droplet shape on reconstructing trajectories of drops from their impact pattern**", paper presented at the 12th Australian and New Zealand International Symposium on the Forensic sciences, Auckland, New Zealand, November 1994.

Raymond, M.A., Smith, E.R. and Liesegang, J., "**The physical properties of blood - forensic considerations**", Sci. & Justice, 36(3), (1996), 153-160.

Raymond, M.A., Smith, E.R. and Liesegang, J., "**Oscillating blood droplets - implications for crime scene reconstruction**", Sci. & Justice, 36(3), (1996), 161-171.

Reeves, N.H., "**The Police officer as a bloodstain pattern analyst**", IABPA News, 10(2), (1994), 3-5.

Reuter, F., "**Forensische Wertung von Blutspuren**", Lehrbuch der gerichtlichen Medizin, Berlin & Wien, Urban und Schwarzenberg, 1933.

Ristenbatt, R.R., and Shaler, R.C., "**A bloodstain pattern interpretation in a homicide case involving an apparent stomping**", J. For. Sci., 40(1), (1995), 139-145.

- Ristenbatt, R.R., and Shaler, R.C., "**Author's response to MacDonell, H.L., J. For Sci. 40(6), (1995), 928-929**", J. For Sci., 40(6), (1995), 929-930.
- Saunders, G., "**Photogrammetric revolution**", Roy. Can. Mount. Pol. Gazette, 50(9), (1988), 1-9.
- Schleyer, F., "**Photometric quantitative determination of dried blood stains from their haemoglobin content, determined as cyanohaemoglobin**", Blut, 17, (1968), 20-24.
- Schleyer, F. and Oepen, J., "**Introduction to the forensic medical investigation of bloodstains**", Schmidt-Romhild, Lubeck, 2nd edition, 1977.
- Schmidt, ?, "**Verdachtiger flecke**", Carl Ricker, St Petersburg, (1871), 10-.
- Schmidt, Th., "**A contribution to the determination of the quantity of blood in bloodstains**", Dtsch. Z. ges. gerichtl Med., 26, (1936), 519-521.
- Schulz, A., Title unknown, Vjschr. Gerichtl. Med., 29, (1905), 1.
- Seliger, L., "**Forensic considerations of the physical properties of human blood**", Independent study report, Elmira College, Elmira, New York, USA, 1978.
- Smerecki, C.J., "**Identification via pedal morphology**", in The Police Chief, April 1984.
- Stanislavski, L.V., "**Inertial deformation of blood traces - Signs of infliction of blow with a specific weapon**", Sud. Med. Ekspert, 26(4), (1983), 16-19. (In Russian - **Translated**).
- Stephens, B.G. and Allen, T.B., "**Back spatter of blood from gunshot wounds - observations and experimental simulation**", J. For. Sci., 28(2), (1983), 437-439.
- Stockdale, R.E., Dickens, C.J., Marshall, I.A. and McAughey, J.J. "**Exhalation as a source of blood droplet spray**", Abstract in Proceedings of 15th Triennial Meeting of the Int. Assoc. For. Sci., August 22-28, 1999, Los Angeles, California, USA
- Stokes, M., Emes, A., and Price, C.J., "**The arterial pump - A device for simulating arterial bleeding**", MPFSL Report No. 95, September 1994.
- Stone, I.C., "**Characteristics of firearms and gunshot wounds as markers of suicide**", Am. J. For. Med. Pathol., 13, (1992), 275-280.
- Strassman, F. and Ziemke, F., "**Quantitative analysis of blood**", Vjsschr. Gerichtl. Med. 21, (1901), 211-226.
- Sutherland, W.D., "**Bloodstains: their detection and the determination of their source**", C. Griffin & Co., London, (1908), 70.
- Sutton, T.P., "**Bloodstain pattern analysis in violent crimes**", Dept. of Path., Divn. of For. Path., Univ. of Tennessee, Memphis, 1993.
- Svenssen, A., Wendel, O. and Fisher, P.J., in "**Techniques of crime scene investigation**", ed. Nicol, J.D., Elsevier, N.Y., 3rd ed. 1981, pp 168-171.
- Sweet, M.J., "**Velocity measurements of projected bloodstains from a medium velocity impact source**", Can. Soc. For. Sci. J., 26(3), (1993), 103-110.
- Sweet, M.J., "**Bloodstain pattern analysis**", 16 Ident. Canada 7 (1993).
- Templeman, H., "**Errors in blood droplet impact angle reconstruction using a protractor**", J. Forens. Ident., 40(1), (1990), 15-22.
- Templeman, H., "**Author's reply to letter by H. MacDonell on Errors in blood droplet impact angle reconstruction using a protractor**", J. Forens. Ident, 40(4), (1990), 193-194.

- Thornton, J.I., "**Criminalistics - Past, present and future**", *Lex et Scientia, The International J. of Law and Sci.*, 11(10), (1975), 1-44.
- Thornton, J.I. and Murdock, J.E., "**Photography of luminol reaction in crime scenes**," *Criminologist*, 10(37), (1977), 15-19.
- Thorwald, J., "**Crime and Science**", Harcourt, Brace and World, N.Y., 1967. (Reference to pioneering work of Florence and Frison in 1900).
- Thorwald, J., "**Century of the detective**", Harcourt, New York, USA, (1965), 235.
- Walcher, K., "**Gerichtlich-Medizinsche und Kriminalistische Blutuntersuchung**", Julius Springer, Berlin, 1939, pp. 15-39.
- Weimann, W., "**Über das Verspritzen von Gewebeteilen aus Einschussöffnungen und seine kriminalistische Bedeutung**", *Dtsch. Z. Gerichtl. Med.*, 17, (1931), 92-105.
- White, B., "**Bloodstain patterns on fabrics: the effect of drop volume, dropping height and impact angle**", *J. Can. Soc. For. Sci.*, 19(1), (1986), 3-36.
- Wilson, F.E. and Schuessler, D., "**Automated geometric interpretation of human bloodstain evidence**," *IABPA News*, 2(4), (1985), 36-43.
- Wolson, T.L., "**Documentation of bloodstain pattern evidence**", *J. For. Ident.*, 45(4), (1995), 396-408.
- Wolson, T. L. "**DNA Analysis and the Interpretation of Bloodstain Patterns**", *Can. Soc. Forens. Sci. J.*, 34(4) (2001) 151-157.
- Wonder, A.K.Y., "**Use of photographic distortion in blood pattern scene reconstruction**", paper presented at meeting of Cal. Ass. Criminalists meeting, Monterey, California, May 1984.
- Wonder, A.K.Y., "**Food for thought regarding the estimation of the volume of an average drop of blood relative to usage (Abstract)**", *J. Can. Soc. For. Sci.*, 20(3), (1987), 77.
- Wonder, A.K.Y., "**Arterial damage bloodstain patterns; Recognition and differentiation (Abstract)**", *J. Can. Soc. For. Sci.*, 20(3), (1987), 77.
- Wonder, A.K.Y., "**Bloodstain interpretation: an introduction to the five stain classification**", *Nat. Pol. Res. Unit Rev.*, 3(1), (1987), 80-86.
- Wonder, A.K.Y., "**Of forests and trees - bloodstain dynamics (Abstract)**" *J. Forens. Sci. Soc.*, 29(5), (1989), 345.
- Wonder, A.K.Y., "**Bloodstain dynamics, the 1500 year old newcomer to investigation**", Abstract IAFS, 1990.
- Wonder, A.K.Y., "**Review of training programmes in bloodstain interpretation**", Abstract IAFS, 1990.
- Wonder, A.K.Y., "**Clotting blood and time sequence for crimes of long duration**", Abstract, IAFS, 1990.
- Wonder, A.K.Y. and Blake, K.S., "**An objective approach to gunshot bloodspatter description**", Abstract AAFS, 1992.
- Wonder, A.K.Y., "**Objective criteria analysis of complex and overlapping bloodstain patterns**", paper presented at American academy of Forensic Sciences Meeting, Tennessee, USA, 1996.
- Wonder, A.K.Y., "**Blood Dynamics**", Academic Press, 2001
- Wonder, A.Y., "**Fact or fiction in bloodstain pattern evidence**", proceedings, *Science & Justice*, 43(3), (2003), 166-168.
- Wood, E.S., "**Medico-legal examination of bloodstains**", *Boston Med. & Surgical.*, v(CXLV)(20), (1901), 533-537.

Woodman, W.B. and Tidy, C.M., "**A handy book of forensic medicine and toxicology**", J & A Churchill, London, (1877), 580.

Yezzo, G.M., "**Can the bloodstain tell the story?**" Paper presented at 12th meeting IAFS, Adelaide, Australia, October 1990.

Ziemke, E., "**Die Untersuchung Von Blutspuren**", in Th. Lochte, Gerichtsarzliche und Polizeiarztliche Technik, Wiesbaden, 1914.

Zwingli, M., "**Über Spuren an der Schiesshand nach Schuss mit Faustfeuerwaffen**", Arch. Kriminol. 108, (1941), 1-26.

II PHYSICS PAPERS RELATING TO BLOOD PATTERN ANALYSIS

- Adam, J.R., Lindblad, N.R. and Hendricks, C.D., "**The collision, coalescence and distribution of water droplets**", J. Appl. Physics, 39(11), (1968), 5173-5180.
- Adamson, A., "**Physical chemistry of surfaces**", 2nd. ed., Interscience, Wiley, N.Y., 1967, pp. 21-41.
- Adler, W.F., "**Liquid drop collisions on deformable media**", J. Materials Sci., 12, (1977). 1253-1271.
- Beard, K.V., and Chuang, C., "**A new model for the equilibrium shape of raindrops**", J. Atmospheric Sci., 44(11), (1987), 1509-1534.
- Blanchard, D.C., "**The behaviour of water drops at terminal velocity in air**", Trans. Amer. Geophys. Union. 31. (1950), 836- 842.
- Carroll, K. and Mesler, R., "**Splashing liquid drops form vortex rings and not jets at low Froude numbers**", J. Applied Physics, 52, (1981), 507.
- Ching, B., Golay, M.W. and Johnson, T.J., "**Droplet impacts upon liquid surfaces**", Science, 226, (1984), 535-537.
- Cotton, W.R. and Gokhale, N.R., "**Collision, coalescence and breakup of large water drops in a vertical wind tunnel**", J. Geophys. Res., 72(16), (1967), 4041-4049.
- Davies, J.T. and Rideal, E.K., "**Interfacial phenomena**", 2nd. ed., Academic Press, N.Y., 1963, p. 44.
- De Mestre, N., "**The mathematics of projectiles in sport**", University Press, Cambridge, 1990.
- Drafahl, J.W. and Rice, P., "**Build a synchronising flash trigger**", Photographic, Feb. 1984, pp. 79-86.
- Edgerton, H.E. and Killian, J.R., "**Flash! Seeing the unseen by ultra- high speed photography**", Boston Hale, Cushman and Flint, 1939.
- Elliott, T.A. and Ford, D.M., "**Dynamic contact angles**", J. Chem. Soc., 68, (1972), 1814-1823.
- Engel, O.G., "**Crater depth in fluid impacts**", J. Applied Physics, 37 (1966), 1798-1808.
- Flower, W.D., "**The terminal velocity of drops**", Proc. Phys. Soc., Lon., 40, (1928), 167-176.
- Foote, G.B., "**The water drop rebound problem: Dynamics of collision**", J. Atmos. Sci., 32, (1975), 390-402.
- Ford, D.M., "**Impact spreading of aqueous drops**", Ph.D. Thesis Nottingham Univ. 1974.
- Gerhart, P.M., Gross, R.J., and Hochstein, J.I., "**Fundamentals of fluid mechanics**", 2nd Ed., Addison-Wesley Pub. Co., Reading, 1992.
- Gonor, A.L. and Yakovlev, V.Y., "**Impact of a drop on a solid surface**", transl. Izvestiva Akademii Nauk SSSR, Mekhanika Zhidkosti i Gaza, 5, (1977), 151-155, in Fluid Dynamics.
- Green, A.W., "**An approximation for the shape of large raindrops**", J. Applied Meteorology, 14, (1975), 1578-1583.
- Gunn, R. and Kinzer, G.D., "**The terminal velocity of fall for water droplets in stagnant air**", J. Meteorology, 6, (1949), 243- 248.
- Harlow, F.H. and Shannon, J.P., "**Distortion of a splashing liquid drop**", Science, 157(4), (1967), 547-550.
- Harlow, F.H. and Shannon, J.P., "**The splash of a liquid drop**", J. Applied Physics, 38(10), (1967), 3855-3866.
- Haug, Y.C., Hammit, F.G. and Yang, W-J., "**Hydrodynamic phenomena during high- speed collision between liquid droplet and rigid plane**", J. Fluids Eng., (1973), 276-294.
- Hobbs, P.V. and Kezweeny, A.J., "**Splashing of a water drop**", Science, 155(3), (1967), 1112-1114.

- Hobbs, R.L., "**The impression to drop size ratio for the raindrop foil impactor**", J. Applied Meteorology, 20(3), (1981), 301-308.
- Hoffman, R.L., McConnell, D.G., List, G.R. and Evans, C.D., "**Distortion of a splashing liquid drop**", Appl. Phys., 38(10), (1967), 3855-66.
- Jayarathne, O.W. and Mason, B.J., "**The coalescence and bouncing of water drops at an air/water interface**", Proc. Royal Soc., A, 280, 545-565.
- Kinnel, P.I.A., "**The acoustic measurement of water drop impacts**", J. Applied Meteorology, 11(4), (1972), 691-694.
- Klett, J.D., "**On the use of boundary layer theory to determine the internal circulation of falling drops**", J. Atmos. Sci., 34, (1977), 551-552.
- Laws, J.O., "**Measurement of the fall- velocity of water drops and raindrops**", Trans. Amer. Geophysics Union, 22, (1941), 709-721.
- Lenard, P., "**Uber Regen**", Meteor. Zeitschrift., 21, (1904), 248-262, (in German).
- Lindblad, N.R. and Schneider, J.M., "**Method of producing and measuring charged single droplets**", Rev. Sci. Instruments, 38(3), (1967), 325-327.
- List, R., Low, T.B. and McTaggart-Cowan, J.D., "**Collisions of raindrops with chaff**", J. Applied Meteorology, 13(7), (1974), 796- 799.
- Lock, J.A., "**The physics of air resistance**", The Physics Teacher, 20(3), (1982), 158-160.
- McDonald, J.E., "**The shape of raindrops**", Sci. Amer., Feb 1954, 23-27. Reprinted by Sci. Amer. in 1979 as part "The physics of everyday phenomena."
- McTaggart- Cowan, J.D. and List, R., "**Collision and break- up of water drops at terminal velocity**", J. Atmos. Sci., 32, (1975), 1401-1411.
- Magarvey, R.H. and Taylor, B.W., "**Free- fall breakup of large drops**". J. Applied Physics, 27(10), (1956), 1129-1135.
- Magono, C., "**On the shape of water drops falling in stagnant air**", J. Meteorology, 11, (1954), 77-79.
- Mehta, R., "**Aerodynamics of the cricket ball**", New Sci., 7, (1980), 442-447.
- Mehta, R., Bentley, K., Proudlove, M., and Varty, P., "**Factors affecting cricket ball swing**", Nature, 303, (1983), 787-788.
- Miller, T.E. and Meyer, W.C., "**Measurement of dynamic surface tension**", Amer. Lab., Feb. 1984, 91-100.
- Prandtl, L. and Tietjens, O.G., "**Fundamentals of hydro- and aeromechanics**", Dover, N.Y., 1957, pp. 60-64.
- Ryan, R.T., "**The behaviour of large, low surface tension water drops falling at terminal velocity in air**", J. Applied Meteorology, 15, (1976), 157-165.
- Spengler, J.D. and Gokhale, N.R., "**Drop impactions**", J. Applied Meteorology, 12(2), (1973), 316-321.
- Spilhaus, A.F., "**Raindrop size, shape and falling speed**", J. Meteorology, 5, (1948), 108-110.
- Stow, C.D. and Hadfield, M.G., "**An experimental investigation of fluid flow resulting from the impact of a water drop with an unyielding dry surface**", Proc. Royal Soc. A, 373, (1981), 419- 441.
- Thomson, J.J. and Newall, H.F., "**On the formation of vortex rings by drops falling into liquids, and some allied phenomena**", Proc. Royal Soc., 39, (1885), 417-436.

Worthington, A.M., "**A study of splashes**", McMillan and Co.. N.Y., 1963.

III UNPUBLISHED DATA RELATING TO BLOODSTAIN PATTERN ANALYSIS

Laber & Epstein
(From course)

"Clotting time studies"

"Terminal velocity determinations for water and blood droplets"

Wonder
(From course)

"Arterial damage stains"

"Volume blood"

"Physiologically altered bloodstains (PABS)"

IV SELECTED PAPERS RELATING TO THE ENHANCEMENT OF BLOODMARKS

Allman, D. and Pounds, C.A., **“Diaminobenzidine: a simple, safe and sensitive method for the enhancement of bloodmarks at scenes of crime and in the laboratory”**, CRSE Report 733 (Home Office Forensic Science Agency, United Kingdom), 1991.

Allman, D. and Pounds, C.A., **“The use of the avidin-biotin interaction for the detection of finger marks”**, CRSE Report 749 (Home Office Forensic Science Agency, United Kingdom), 1992a

Allman, D. and Pounds, C.A., **“The detection of finger marks by the use of antibody techniques”**, CRSE Report 752 (Home Office Forensic Science Agency, United Kingdom), 1992b.

Allman, D., Pounds, C.A. and Wild, F.M., **“ A method for the transfer and development of fingerprints and shoeprints deposited in blood”**, CRSE Report 697 (Home Office Forensic Science Agency, United Kingdom), 1989.

Barnett, K.G., Bansal, P. and Guinness, J., **“Evaluation of a method to improve the lifting of footwear impressions made in blood”**, For. Sci. Service Report TN795 (Home Office Forensic Science Service, United Kingdom), 1994.

Barnett, K.G., Bone, R.G., Hall, P.W. and Ide, R.H., **The use of gelatin lifts and protein transfer media for the enhancement of footwear impressions in blood on carpets, porous and dark non-porous surfaces”**, CRSE Technical note 652 (Home Office Forensic Science Agency, United Kingdom), 1991.

Barnett, K.G., Parker, S.J., Bone, R.G., Johnson, H. and Guinness, J., **“The lifting of bloodstained footprints off absorbent materials by 5-sulphosalicylic acid and leuco-malachite green”**, FSS Technical note 788, December 1993.

Bennett, M., **“A new method for the lifting and visualisation of fingerprints and other marks in blood”**, M.Sc. thesis, Dept. of Biochemistry, King's College, London, 1988.

Griswold, D.P., Casey, A.E., Weisburger, E.K. and Weisburger, J.H., **“The carcinogenicity of multiple intragastric doses of aromatic and heterocyclic nitro and amino derivatives in young female Sprague-Dawley rats”**, Cancer Research, 28, 924-933, 1968.

Holland, V.R., Saunders, B.C., Rose, F.L. and Walpole, A.L., **“ A safer substitute for benzidine in the detection of blood”**, Tetrahedron, 30, 3299-3302, 1974.

Hussain, J.I., and Pounds, C.A., **“The enhancement of marks in blood - Part 2. A modified amido black staining technique”**, CRSE Report 685 (Home Office Forensic Science Agency, United Kingdom), 1989.

Lee, H.C., Gaensslen, R.E., Pagliaro, E.M., Guman, M.B., Berka, K.M., Keith, P.T. and Phipps, P. **“The effect of presumptive test, latent fingerprint and some other reagents and materials on subsequent serological identification, genetic marker and DNA testing of bloodstains”**, Journal of Forensic Identification, 39(6), 339-358, 1989.

Lytle, L.T. and Hedgecock, D.G., **“Chemiluminescence in the visualisation of forensic bloodstains”**, Journal of Forensic Sciences, 23(3), 550-562, 1978.

Mitsumochi, I., Kaneko, A., Ishikawa, T. and Yoshida, H., **“Methods for collecting and detecting footprints imprinted with blood”**, Reports of the National Research Institute of Police Science, 33(1), 39-43, 1980.

Norkus, P. and Noppinger, K., **“New reagent for the enhancement of blood prints”**, Identification News, April, 1986, 5-6.

Olsen, R.D., **“Sensitivity comparison of blood enhancement techniques”**, Identification News, 35(8), 10-14, 1985.

Parkin, B.H. and Hartley, K., **“The detection of fingerprints and other marks in body fluids by the use of agar gels”**, Forensic Science International, 35, 267-275, 1987.

Patty, J.R. and Giberson, M., **“Safer bloody fingerprint spray”**, Identification News, November 1985, 7-8.

Platt, S.R., **“The effects of argon ion laser on subsequent blood examinations”**, Journal of Forensic Sciences, 27(3), 726-728, 1982.

Pounds, C.A., Grigg, R. and Monkolaussavaratana, T., **“The use of 1,8 diazafluoren-9-one (DFO) for the fluorescent detection of latent fingerprints on paper. A preliminary evaluation”**, CRSE Report 669 (Home Office Forensic Science Agency, United Kingdom), 1989.

Stoilovic, M., **“ Detection of semen and blood stains using Polilight as a light source”**, Forensic Science International, 51, 289-296, 1991.

Stow, K.M., **“Enhancement of footprints”**, M.Sc. thesis. University of Strathclyde, United Kingdom, 1990.

Stow, K.M., **“Direct lift enhancement of blood-contaminated shoe marks by leuco malachite green-impregnated membranes”**, J. For. Sci. Soc., 34(4), 1994.

Tiller, N. and Tiller, T., **“The power of physical evidence -A capital murder case study”**, Journal of Forensic Identification, 42(2), 79-83, 1992.

Weisburger, E.K., Russfield, A.B., Homburger, F., Weisburger, J.H., Boger, E., Van Dongen, C.G. and Chu, K.C., **“Testing of twenty one environmental aromatic amines or derivatives for long term toxicity or carcinogenicity”**, Journal of Environmental Pathology and Toxicology, 2, 325-356, 1978.

Yatomi, H., **“Preliminary screening tests of reagents for bloodstains - studies on benzidine derivatives and other Redox reagents”**, Reports of the National Research Institute of Police Science, 40(8), 839-852, 1981.

V **SELECTED PAPERS RELATING TO ASPECTS OF FORENSIC MEDICINE AND PATHOLOGY RELEVANT TO BPA**

Di Maio, V.J.M., **“Gunshot wounds”**, CRC Press LLC, 2nd edition 1999.

Green, M.A., **“Stab wound dynamics - A recording technique for use in medico-legal investigations”**, J. For. Sci. Soc., 18, (1978), 161-163.

Knight, B., **" Forensic Pathology "**, 1st ed., Arnold, 1991.

Mason, W.J.K.(ed.), **“The pathology of trauma”**, Arnold, 1994.

Ormstad, K., Kalsson, T., Enkler, L. and Rajs, J., **“Patterns in sharp force fatalities - A comprehensive forensic medical study”**, J. For. Sci., 31 (2), (1986), 539-542.

Varnon, J., Courtney, M. and Ekis, T.R., **“Self-wounding of assailants during stabbing and cutting attacks”**, Int. Ass. Bloodstain Pattern Analysts News, 12 (3), (1996), 3-8.