

# SECU0021: Forensic Geoscience

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1

Inman K, Rudin N. The origin of evidence. *Forensic Science International* 2002;**126**:11–6. doi:10.1016/S0379-0738(02)00031-2

2

Morgan RM, Wiltshire P, Parker A, et al. The role of forensic geoscience in wildlife crime detection. *Forensic Science International* 2006;**162**:152–62. doi:10.1016/j.forsciint.2006.06.045

3

Morgan RM, Bull PA. The philosophy, nature and practice of forensic sediment analysis. *Progress in Physical Geography* 2007;**31**:43–58. doi:10.1177/0309133307073881

4

Ruffell A, McKinley J. Forensic geoscience: applications of geology, geomorphology and geophysics to criminal investigations. *Earth-Science Reviews* 2005;**69**:235–47. doi:10.1016/j.earscirev.2004.08.002

5

Jonathan. J. Koehler MJS. The Individualization Fallacy in Forensic Science Evidence. 2008; **61**:199–219. [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1432516](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1432516)

6

Cole SA. Forensic culture as epistemic culture: The sociology of forensic science. *Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences* 2013;**44**:36–46. doi:10.1016/j.shpsc.2012.09.003

7

Jasanoff S. Just Evidence: The Limits of Science in the Legal Process. *The Journal of Law, Medicine Ethics* 2006;**34**:328–41. doi:10.1111/j.1748-720X.2006.00038.x

8

Kiely TF. *Forensic evidence: science and the criminal law*. Second edition. Boca Raton, FL: : CRC Press 2006. <http://dx.doi.org/10.1201/9781420038064>

9

Kirk PL. *Crime investigation*. Second edition. New York: : John Wiley & Sons 1974.

10

Michael Lynch and Sheila Jasanoff. Introduction: Contested Identities: Science, Law and Forensic Practice. *Social Studies of Science* 1998;**28**:675–86.[http://www.jstor.org/stable/285513?Search=yes&resultItemClick=true&searchUri=%2Faction%2FdoAdvancedSearch%3Fc5%3DAND%26amp%3Bq2%3D%26amp%3Bf4%3Dall%26amp%3Bf2%3Dall%26amp%3Bla%3D%26amp%3Bpt%3D%26amp%3Bq4%3D%26amp%3Bq6%3D%26amp%3Bc4%3DAND%26amp%3Bf6%3Dall%26amp%3Bf3%3Dall%26amp%3Bq0%3DContested%2BIdentities%253A%2Bscience%252C%2Blaw%2Band%2Bforensic%2Bpractice%26amp%3Bc3%3DAND%26amp%3Bf0%3Dall%26amp%3Bacc%3Don%26amp%3Bc1%3DAND%26amp%3Bq1%3D%26amp%3Bf1%3Dall%26amp%3Bc6%3DAND%26amp%3Bf5%3Dall%26amp%3Bq3%3D%26amp%3Bisbn%3D%26amp%3Bed%3D%26amp%3Bsd%3D%26amp%3Bc2%3DAND%26amp%3Bq5%3D%26amp%3Bgrou%3Dnone&seq=1#page\\_scan\\_tab\\_contents](http://www.jstor.org/stable/285513?Search=yes&resultItemClick=true&searchUri=%2Faction%2FdoAdvancedSearch%3Fc5%3DAND%26amp%3Bq2%3D%26amp%3Bf4%3Dall%26amp%3Bf2%3Dall%26amp%3Bla%3D%26amp%3Bpt%3D%26amp%3Bq4%3D%26amp%3Bq6%3D%26amp%3Bc4%3DAND%26amp%3Bf6%3Dall%26amp%3Bf3%3Dall%26amp%3Bq0%3DContested%2BIdentities%253A%2Bscience%252C%2Blaw%2Band%2Bforensic%2Bpractice%26amp%3Bc3%3DAND%26amp%3Bf0%3Dall%26amp%3Bacc%3Don%26amp%3Bc1%3DAND%26amp%3Bq1%3D%26amp%3Bf1%3Dall%26amp%3Bc6%3DAND%26amp%3Bf5%3Dall%26amp%3Bq3%3D%26amp%3Bisbn%3D%26amp%3Bed%3D%26amp%3Bsd%3D%26amp%3Bc2%3DAND%26amp%3Bq5%3D%26amp%3Bgrou%3Dnone&seq=1#page_scan_tab_contents)

11

Morgan RM, Bull PA. Data Interpretation in Forensic Sediment and Soil Geochemistry. *Environmental Forensics* 2006;**7**:325–34. doi:10.1080/15275920600996248

12

Rawlins BG, Kemp SJ, Hodgkinson EH, et al. Potential and Pitfalls in Establishing the Provenance of Earth-Related Samples in Forensic Investigations. *Journal of Forensic Sciences* 2006;**51**:832–45. doi:10.1111/j.1556-4029.2006.00152.x

13

BBC Radio 4 - The Infinite Monkey Cage, Series 12, Forensic Science.  
<http://www.bbc.co.uk/programmes/b064yglg>

14

The Forensics Library. <http://aboutforensics.co.uk/>

15

BBC Radio 4 - Forensics in Crisis.  
<http://www.bbc.co.uk/programmes/b05sv09g/broadcasts/2015/05>

16

Hamzelou J. Hair analysis on trial after FBI admits to using flawed evidence. Published Online First: 2015.  
<https://www.newscientist.com/article/dn27386-hair-analysis-on-trial-after-fbi-admits-to-using-flawed-evidence/#.VTnvtpOcvvs>

17

Drahl C, Widener A. Forcing Change In Forensic Science. 2014;**92**:10–5.  
<http://cen.acs.org/articles/92/i19/Forcing-Change-Forensic-Science.html>

18

BBC Radio 4 - The Life Scientific, Niamh Nic Daeid.  
<http://www.bbc.co.uk/programmes/b062k9zz>

19

BBC Four - Catching History's Criminals: The Forensics Story.

<http://www.bbc.co.uk/programmes/p02l4p5x>

20

BBC Radio 4 - The Report, Forensic Science. <http://www.bbc.co.uk/programmes/b01m68w2>

21

Balding DJ, Buckleton J. Interpreting low template DNA profiles. *Forensic Science International: Genetics* 2009;**4**:1–10. doi:10.1016/j.fsigen.2009.03.003

22

Jasanoff S. Law's Knowledge: Science for Justice in Legal Settings. *American Journal of Public Health* 2005;**95**:S49–58. doi:10.2105/AJPH.2004.045732

23

Morgan, RM. The relevance of the evolution of experimental studies for the interpretation and evaluation of some trace physical evidence. *Science & Justice* Published Online First: 2009. [https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=UCL\\_EPR\\_DS84827&context=L&vid=UCL\\_VU2□=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=Local%20Search%20Engine&tab=local&query=any,contains,The%20relevance%20of%20the%20evolution%20of%20experimental%20studies%20for%20the%20interpretation%20and%20evaluation%20of%20some%20trace%20physical%20evidence&sortby=rank&offset=0](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=UCL_EPR_DS84827&context=L&vid=UCL_VU2□=en_US&search_scope=CSCOP_UCL&adaptor=Local%20Search%20Engine&tab=local&query=any,contains,The%20relevance%20of%20the%20evolution%20of%20experimental%20studies%20for%20the%20interpretation%20and%20evaluation%20of%20some%20trace%20physical%20evidence&sortby=rank&offset=0)

24

Thompson WC, Schumann EL. Interpretation of statistical evidence in criminal trials: The prosecutor's fallacy and the defense attorney's fallacy. *Law and Human Behavior* 1987;**11**:167–87. doi:10.1007/BF01044641

25

Morgan RM, Bull PA. Forensic Geoscience and Crime detection: Identification, interpretation and presentation in forensic geoscience. 2007;**127**:73–90. [http://www.geog.ox.ac.uk/staff/pbull\\_pub01.pdf](http://www.geog.ox.ac.uk/staff/pbull_pub01.pdf)

26

Morgan RM, Cohen J, McGookin I, et al. The relevance of the evolution of experimental studies for the interpretation and evaluation of some trace physical evidence. *Science & Justice* 2009;**49**:277–85. doi:10.1016/j.scijus.2009.02.004

27

Morgan RM, Flynn J, Sena V, et al. Experimental forensic studies of the preservation of pollen in vehicle fires. *Science & Justice* 2014;**54**:141–5. doi:10.1016/j.scijus.2013.04.001

28

Bull PA, Morgan RM, Sagovsky A, et al. The Transfer and Persistence of Trace Particulates: Experimental studies using clothing fabrics. *Science & Justice* 2006;**46**:185–95. doi:10.1016/S1355-0306(06)71592-1

29

Chisum WJ, Turvey BE. *Crime Reconstruction*. 2nd ed. Amsterdam: : Academic Press 2011. <http://www.sciencedirect.com/science/book/9780123864604>

30

Dachs J, McNaught IJ, Robertson J. The persistence of human scalp hair on clothing fabrics. *Forensic Science International* 2003;**138**:27–36. doi:10.1016/j.forsciint.2003.07.014

31

Morgan RM, French JC, O'Donnell L, et al. The reincorporation and redistribution of trace geoforensic particulates on clothing: An introductory study. *Science & Justice* 2010;**50**:195–9. doi:10.1016/j.scijus.2010.04.002

32

Pounds CA, Smalldon KW. The Transfer of Fibres between Clothing Materials During Simulated Contacts and their Persistence During Wear. *Journal of the Forensic Science*

Society 1975;**15**:29–37. doi:10.1016/S0015-7368(75)70933-7

33

Sugita R, Marumo Y. Validity of color examination for forensic soil identification. *Forensic Science International* 1996;**83**:201–10. doi:10.1016/S0379-0738(96)02038-5

34

Morgan RM, Flynn J, Sena V, et al. Experimental forensic studies of the preservation of pollen in vehicle fires. *Science & Justice* 2014;**54**:141–5. doi:10.1016/j.scijus.2013.04.001

35

Morgan, RM. The spatial and temporal distribution of pollen in a room: forensic implications. Published Online First: 2014. [https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=UCL\\_EPR\\_DS1425730&context=L&vid=UCL\\_VU2&lang=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=Local%20Search%20Engine&tab=local&query=any,contains,The%20spatial%20and%20temporal%20distribution%20of%20pollen%20in%20a%20room:%20Forensic%20implications&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=UCL_EPR_DS1425730&context=L&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=Local%20Search%20Engine&tab=local&query=any,contains,The%20spatial%20and%20temporal%20distribution%20of%20pollen%20in%20a%20room:%20Forensic%20implications&sortby=rank)

36

The 'CSI effect'. Published Online First: 2010. <http://www.economist.com/node/15949089>

37

Solved- Trace Evidence. 2008. <https://www.youtube.com/watch?v=AMmSCXzmxD4>

38

Allen TJ, Scrannage JK. The transfer of glass—part 1. *Forensic Science International* 1998;**93**:167–74. doi:10.1016/S0379-0738(98)00041-3

39

Allen TJ, Hoefler K, Rose S. The transfer of glass—part 3. *Forensic Science International* 1998;**93**:195–200. doi:10.1016/S0379-0738(98)00043-7

40

Schweitzer, N.J. THE CSI EFFECT: POPULAR FICTION ABOUT FORENSIC SCIENCE AFFECTS THE PUBLIC'S EXPECTATIONS ABOUT REAL FORENSIC SCIENCE. *Jurimetrics*; **47**:357–64. [https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_jstor\\_archive\\_1229762978&context=PC&vid=UCL\\_VU2□=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=primo\\_central\\_multiple\\_fe&tab=local&query=any,contains,HE%20CSI%20EFFECT:%20POPULAR%20FICTION%20ABOUT%20FORENSIC%20SCIENCE%20AFFECTS%20THE%20PUBLIC%27S%20EXPECTATIONS%20ABOUT%20REAL%20FORENSIC%20SCIENCE&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_jstor_archive_1229762978&context=PC&vid=UCL_VU2□=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,HE%20CSI%20EFFECT:%20POPULAR%20FICTION%20ABOUT%20FORENSIC%20SCIENCE%20AFFECTS%20THE%20PUBLIC%27S%20EXPECTATIONS%20ABOUT%20REAL%20FORENSIC%20SCIENCE&sortby=rank)

41

Dachs J, McNaught IJ, Robertson J. The persistence of human scalp hair on clothing fabrics. *Forensic Science International* 2003;**138**:27–36. doi:10.1016/j.forsciint.2003.07.014

42

French JC, Morgan RM, Baxendell P, et al. Multiple transfers of particulates and their dissemination within contact networks. *Science & Justice* 2012;**52**:33–41. doi:10.1016/j.scijus.2011.05.001

43

French, J. The secondary transfer of gunshot residue: an experimental investigation carried out with SEM-EDX analysis. *X-RAY SPECTROMETRY* Published Online First: 2014. [https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=UCL\\_EPR\\_DS1422146&context=L&vid=UCL\\_VU2□=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=Local%20Search%20Engine&tab=local&query=any,contains,The%20secondary%20transfer%20of%20gunshot%20residue:%20an%20experimental%20investigation%20carried%20out%20with%20SEM-EDX%20analysis&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=UCL_EPR_DS1422146&context=L&vid=UCL_VU2□=en_US&search_scope=CSCOP_UCL&adaptor=Local%20Search%20Engine&tab=local&query=any,contains,The%20secondary%20transfer%20of%20gunshot%20residue:%20an%20experimental%20investigation%20carried%20out%20with%20SEM-EDX%20analysis&sortby=rank)

44

Grieve MC, Dunlop J, Haddock PS. Transfer experiments with acrylic fibres. *Forensic Science International* 1989;**40**:267–77. doi:10.1016/0379-0738(89)90185-0

45

Grieve MC. Glitter particles—an unusual source of trace evidence? *Journal of the Forensic Science Society* 1987;**27**:405–12. doi:10.1016/S0015-7368(87)72789-3

46

Garrett, Brandon L. Invalid forensic science testimony and wrongful convictions. *Virginia Law Review*; **95**:1–97. [https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_scopus2-s2.0-65349105013&context=PC&vid=UCL\\_VU2□=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=primo\\_central\\_multiple\\_fe&tab=local&query=any,contains,Invalid%20Forensic%20Science%20Testimony%20and%20Wrongful%20Convictions&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_scopus2-s2.0-65349105013&context=PC&vid=UCL_VU2□=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Invalid%20Forensic%20Science%20Testimony%20and%20Wrongful%20Convictions&sortby=rank)

47

Pringle JK, Ruffell A, Jervis JR, et al. The use of geoscience methods for terrestrial forensic searches. *Earth-Science Reviews* 2012;**114**:108–23. doi:10.1016/j.earscirev.2012.05.006

48

Ruffell A, McKinley J. Forensic geoscience: applications of geology, geomorphology and geophysics to criminal investigations. *Earth-Science Reviews* 2005;**69**:235–47. doi:10.1016/j.earscirev.2004.08.002

49

Ruffell A, Pringle JK, Forbes S. Search protocols for hidden forensic objects beneath floors and within walls. *Forensic Science International* 2014;**237**:137–45. doi:10.1016/j.forsciint.2013.12.036

50

Ruffell A, McKinley J. Forensic geomorphology. *Geomorphology* 2014;**206**:14–22. doi:10.1016/j.geomorph.2013.12.020

51

Bevan BW. The search for graves. 1991;**56**

:1310–9.<http://www.olemiss.edu/research/anthropology/haley/class2010/library/Bevan1991.pdf>

52

G. Clark Davenport. Remote Sensing Applications in Forensic Investigations. Historical Archaeology 2001;**35**

:87–100.[http://www.jstor.org/stable/25616896?Search=yes&resultItemClick=true&searchUri=%2Faction%2FdoAdvancedSearch%3Facc%3Don%26amp%3Bq6%3D%26amp%3Bf0%3Dall%26amp%3Bc4%3DAND%26amp%3Bc2%3DAND%26amp%3Bq1%3D%26amp%3Bc1%3DAND%26amp%3Bc3%3DAND%26amp%3Bf4%3Dall%26amp%3Bf1%3Dall%26amp%3Bsd%3D%26amp%3Bq5%3D%26amp%3Bf6%3Dall%26amp%3Bgroup%3Dnone%26amp%3Bpt%3D%26amp%3Bq4%3D%26amp%3Bc5%3DAND%26amp%3Bf3%3Dall%26amp%3Bisbn%3D%26amp%3Bed%3D%26amp%3Bf5%3Dall%26amp%3Bq2%3D%26amp%3Bq0%3D%26amp%3Bremote%26amp%3Bsensing%26amp%3Bapplications%26amp%3Bin%26amp%3Bforensic%26amp%3Binvestigations%26amp%3Bla%3D%26amp%3Bq3%3D%26amp%3Bc6%3DAND%26amp%3Bf2%3Dall&seq=1#page\\_scan\\_tab\\_contents](http://www.jstor.org/stable/25616896?Search=yes&resultItemClick=true&searchUri=%2Faction%2FdoAdvancedSearch%3Facc%3Don%26amp%3Bq6%3D%26amp%3Bf0%3Dall%26amp%3Bc4%3DAND%26amp%3Bc2%3DAND%26amp%3Bq1%3D%26amp%3Bc1%3DAND%26amp%3Bc3%3DAND%26amp%3Bf4%3Dall%26amp%3Bf1%3Dall%26amp%3Bsd%3D%26amp%3Bq5%3D%26amp%3Bf6%3Dall%26amp%3Bgroup%3Dnone%26amp%3Bpt%3D%26amp%3Bq4%3D%26amp%3Bc5%3DAND%26amp%3Bf3%3Dall%26amp%3Bisbn%3D%26amp%3Bed%3D%26amp%3Bf5%3Dall%26amp%3Bq2%3D%26amp%3Bq0%3D%26amp%3Bremote%26amp%3Bsensing%26amp%3Bapplications%26amp%3Bin%26amp%3Bforensic%26amp%3Binvestigations%26amp%3Bla%3D%26amp%3Bq3%3D%26amp%3Bc6%3DAND%26amp%3Bf2%3Dall&seq=1#page_scan_tab_contents)

53

Fenning PJ, Donnelly LJ. Geophysical techniques for forensic investigation. 2004;**232**:11–20. doi:10.1144/GSL.SP.2004.232.01.03

54

Hansen JD, Pringle JK. Comparison of magnetic, electrical and ground penetrating radar surveys to detect buried forensic objects in semi-urban and domestic patio environments. 2013;**384**:229–51. doi:10.1144/SP384.13

55

Scott J, Hunter JR. Environmental influences on resistivity mapping for the location of clandestine graves. 2004;**232**:33–8. doi:10.1144/GSL.SP.2004.232.01.05

56

Beck, Richard A. Remote Sensing and GIS as Counterterrorism Tools in the Afghanistan War: A Case Study of the Zhawar Kili Region. The Professional Geographer;**55**. doi:10.1111/0033-0124.5502005

57

Pringle JK, Holland C, Szkornik K, et al. Establishing forensic search methodologies and geophysical surveying for the detection of clandestine graves in coastal beach environments. *Forensic Science International* 2012;**219**:e29-36. doi:10.1016/j.forsciint.2012.01.010

58

Morgan RM, Bull PA. Data Interpretation in Forensic Sediment and Soil Geochemistry. *Environmental Forensics* 2006;**7**:325-34. doi:10.1080/15275920600996248

59

Gepard GPR ground penetrating radar - Applications and functionality. 17AD.<https://www.youtube.com/watch?v=JQAeExJwjpE>

60

SERIAL. <https://serialpodcast.org/>

61

Undisclosed. <http://undisclosed-podcast.com/>

62

The Murder Trial.  
<https://learningonscreen.ac.uk/ondemand/index.php/prog/057FF632?bcast=98658101>

63

Hanson ID. The importance of stratigraphy in forensic investigation. Geological Society, London, Special Publications 2004;**232**:39-47. doi:10.1144/GSL.SP.2004.232.01.06

64

Holzer, Thomas L. Seismograms offer insight into Oklahoma City bombing. *Eos*;**77**

.[https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_georef1997-016939&context=PC&vid=UCL\\_VU2□=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=primo\\_central\\_multiple\\_fe&tab=local&query=any,contains,Seismograms%20Offer%20Insight%20Into%20Oklahoma%20City%20Bombing&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_georef1997-016939&context=PC&vid=UCL_VU2□=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Seismograms%20Offer%20Insight%20Into%20Oklahoma%20City%20Bombing&sortby=rank)

65

Koper KD, Wallace TC, Taylor SR, et al. Forensic seismology and the sinking of the Kursk [textit{Kursk}]. Eos, Transactions American Geophysical Union 2001;**82**:37–37. doi:10.1029/01EO00023

66

Scott J, Hunter JR. Environmental influences on resistivity mapping for the location of clandestine graves. Geological Society, London, Special Publications 2004;**232**:33–8. doi:10.1144/GSL.SP.2004.232.01.05

67

Bull PA, Parker A, Morgan RM. The forensic analysis of soils and sediment taken from the cast of a footprint. Forensic Science International 2006;**162**:6–12. doi:10.1016/j.forsciint.2006.06.075

68

Bull PA, Morgan RM. Sediment Fingerprints: A forensic technique using quartz sand grains. Science & Justice 2006;**46**:107–24. doi:10.1016/S1355-0306(06)71581-7

69

Dawson LA, Hillier S. Measurement of soil characteristics for forensic applications. Surface and Interface Analysis 2010;**42**:363–77. doi:10.1002/sia.3315

70

Morgan RM, Robertson J, Lennard C, et al. Quartz grain surface textures of soils and sediments from Canberra, Australia: A forensic reconstruction tool. Australian Journal of Forensic Sciences 2010;**42**:169–79. doi:10.1080/00450610903258110

71

Bailey MJ, Morgan RM, Comini P, et al. Evaluation of Particle-Induced X-ray Emission and Particle-Induced  $\gamma$ -ray Emission of Quartz Grains for Forensic Trace Sediment Analysis. *Analytical Chemistry* 2012;**84**:2260–7. doi:10.1021/ac2028722

72

Konopinski DI, Hudziak S, Morgan RM, et al. Investigation of quartz grain surface textures by atomic force microscopy for forensic analysis. *Forensic Science International* 2012;**223**:245–55. doi:10.1016/j.forsciint.2012.09.011

73

Newell AJ, Morgan RM, Griffin LD, et al. Automated Texture Recognition of Quartz Sand Grains for Forensic Applications\*. *Journal of Forensic Sciences* 2012;**57**:1285–9. doi:10.1111/j.1556-4029.2012.02126.x

74

Sugita R, Marumo Y. Screening of soil evidence by a combination of simple techniques: validity of particle size distribution. *Forensic Science International* 2001;**122**:155–8. doi:10.1016/S0379-0738(01)00490-X

75

Morgan RM, Bull PA. The philosophy, nature and practice of forensic sediment analysis. *Progress in Physical Geography* 2007;**31**:43–58. doi:10.1177/0309133307073881

76

Newell AJ, Morgan RM, Griffin LD, et al. Automated Texture Recognition of Quartz Sand Grains for Forensic Applications\*. *Journal of Forensic Sciences* 2012;**57**:1285–9. doi:10.1111/j.1556-4029.2012.02126.x

77

Inspecting Detectives, The Long Shadow of the World's End.

<http://www.bbc.co.uk/programmes/b06cy69y>

78

Green N. Get ready for CSI: Soil. Published Online First: 2011. <https://www.theguardian.com/science/blog/2011/sep/13/forensic-science-content-transference>

79

1969 FBI Soil Exam Video. 8AD. <https://www.youtube.com/watch?v=1Op0-A752IY>

80

The Soil Sleuth. 21AD. <https://www.youtube.com/watch?v=NyurHTD2Kro>

81

Zala, Krista. Dirty Science: Soil Forensics Digs into New Techniques. Science; **318**:386–7. [https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_jstor\\_archive\\_2320051376&context=PC&vid=UCL\\_VU2□=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=primo\\_central\\_multiple\\_fe&tab=local&query=any,contains,Dirty%20Science:%20Soil%20Forensics%20Digs%20Into%20New%20Techniques&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_jstor_archive_2320051376&context=PC&vid=UCL_VU2□=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Dirty%20Science:%20Soil%20Forensics%20Digs%20Into%20New%20Techniques&sortby=rank)

82

Bull PA, Morgan RM, Freudiger-Bonzon J. A critique of the present use of some geochemical techniques in geoforensic analysis. Forensic Science International 2008; **178**:e35–40. doi:10.1016/j.forsciint.2007.09.003

83

Ritz K, Dawson L, Miller D. Criminal and environmental soil forensics. [Dordrecht?]: : Springer 2009. <https://ebookcentral.proquest.com/lib/ucl/detail.action?docID=417347>

84

Pye K, Blott SJ, Croft DJ, et al. Forensic comparison of soil samples: Assessment of small-scale spatial variability in elemental composition, carbon and nitrogen isotope ratios, colour, and particle size distribution. *Forensic Science International* 2006;**163**:59–80. doi:10.1016/j.forsciint.2005.11.008

85

Rawlins BG, Cave M. Investigating multi-element soil geochemical signatures and their potential for use in forensic studies. 2004;**232**:197–206. doi:10.1144/GSL.SP.2004.232.01.18

86

McCulloch G, Dawson LA, Brewer MJ, et al. The identification of markers for Geoforensic HPLC profiling at close proximity sites. *Forensic Science International* 2017;**272**:127–41. doi:10.1016/j.forsciint.2017.01.009

87

Cheshire K, Morgan RM, Holmes J. The potential for geochemical discrimination of single- and mixed-source soil samples from close proximity urban parkland locations. *Australian Journal of Forensic Sciences* 2017;**49**:161–74. doi:10.1080/00450618.2016.1144789

88

Bell S. *Forensic chemistry*. Upper Saddle River, N.J.: : Pearson Prentice Hall 2006.

89

Saferstein R. *Criminalistics: an introduction to forensic science*. Edition 11, global edition. Boston: : Pearson 2015.

90

Saferstein R. *Criminalistics: an introduction to forensic science*. Edition 11, global edition. Boston: : Pearson 2015.

91

Muccio Z, Jackson GP. Isotope ratio mass spectrometry. *The Analyst* 2009;**134**:213–22. doi:10.1039/B808232D

92

Pye K, Croft D. Forensic analysis of soil and sediment traces by scanning electron microscopy and energy-dispersive X-ray analysis: An experimental investigation. *Forensic Science International* 2007;**165**:52–63. doi:10.1016/j.forsciint.2006.03.001

93

Croft DJ, Pye K. The potential use of continuous-flow isotope-ratio mass spectrometry as a tool in forensic soil analysis: a preliminary report. *Rapid Communications in Mass Spectrometry* 2003;**17**:2581–4. doi:10.1002/rcm.1174

94

Reidy L, Bu K, Godfrey M, et al. Elemental fingerprinting of soils using ICP-MS and multivariate statistics: A study for and by forensic chemistry majors. *Forensic Science International* 2013;**233**:37–44. doi:10.1016/j.forsciint.2013.08.019

95

Quaak FCA, Kuiper I. Statistical data analysis of bacterial t-RFLP profiles in forensic soil comparisons. *Forensic Science International* 2011;**210**:96–101. doi:10.1016/j.forsciint.2011.02.005

96

Young JM, Weyrich LS, Cooper A. Forensic soil DNA analysis using high-throughput sequencing: A comparison of four molecular markers. *Forensic Science International: Genetics* 2014;**13**:176–84. doi:10.1016/j.fsigen.2014.07.014

97

Amendt J, Campobasso CP, Gaudry E, et al. Best practice in forensic entomology—standards and guidelines. *International Journal of Legal Medicine* 2007;**121**:90–104. doi:10.1007/s00414-006-0086-x

98

Amendt J, Richards CS, Campobasso CP, et al. Forensic entomology: applications and limitations. *Forensic Science, Medicine, and Pathology* 2011;**7**:379–92. doi:10.1007/s12024-010-9209-2

99

Márquez-Grant N, Roberts J, editors. *Forensic Ecology Handbook*. Chichester, UK: : John Wiley & Sons, Ltd 2012. doi:10.1002/9781118374016

100

Bugelli V, Forni D, Bassi LA, et al. Forensic Entomology and the Estimation of the Minimum Time Since Death in Indoor Cases. *Journal of Forensic Sciences* 2015;**60**:525–31. doi:10.1111/1556-4029.12647

101

Catts EP, Goff ML. Forensic Entomology in Criminal Investigations. *Annual Review of Entomology* 1992;**37**:253–72. doi:10.1146/annurev.en.37.010192.001345

102

Bernard Greenberg. Flies as Forensic Indicators. *Journal of Medical Entomology* 1991;**28**:565–77. <http://jme.oxfordjournals.org/content/28/5/565.long>

103

Maehly A, Williams RL, editors. *Forensic Science Progress 5*. Berlin, Heidelberg: : Springer Berlin Heidelberg 1991. doi:10.1007/978-3-642-58233-2

104

Catching History's Criminals: The Forensics Story. <http://www.bbc.co.uk/programmes/p02tydb7>

105

Abdulla S. The buzzing detective. news@nature Published Online First: 23 September 1999. doi:10.1038/news990923-2

106

From Eggs to Maggots.

<http://www.pbs.org/wnet/nature/crime-scene-creatures-video-from-eggs-to-maggots/5209/>

107

Forensic entomology - The crime scene (Wellcome Collection).

5AD.<https://www.youtube.com/watch?v=HIVKISCmjTQ>

108

Cameron NG. The use of diatom analysis in forensic geoscience. 2004;**232**:277–80.

doi:10.1144/GSL.SP.2004.232.01.25

109

Peabody AJ, Cameron NG. Forensic science and diatoms. In: Smol JP, Stoermer EF, eds. The Diatoms. Cambridge: : Cambridge University Press 2010. 534–9.

doi:10.1017/CBO9780511763175.030

110

Scott KR, Morgan RM, Jones VJ, et al. The transferability of diatoms to clothing and the methods appropriate for their collection and analysis in forensic geoscience. Forensic Science International 2014;**241**:127–37. doi:10.1016/j.forsciint.2014.05.011

111

Cox EJ. Diatoms and Forensic Science. In: Márquez-Grant N, Roberts J, eds. Forensic Ecology Handbook. Chichester, UK: : John Wiley & Sons, Ltd 2012. 141–51.

doi:10.1002/9781118374016.ch9

112

Piette MHA, De Letter EA. Drowning: Still a difficult autopsy diagnosis. Forensic Science International 2006;**163**:1–9. doi:10.1016/j.forsciint.2004.10.027

113

Pollanen MS. Diatoms and homicide. Forensic Science International 1998;**91**:29–34. doi:10.1016/S0379-0738(97)00162-X

114

Siver PA, Lord WD, McCarthy DJ. Forensic Limnology: The Use of Freshwater Algal Community Ecology to Link Suspects to an Aquatic Crime Scene in Southern New England. 1994;**39**:847–53. [https://compass.astm.org/DIGITAL\\_LIBRARY/JOURNALS/JFS/PAGES/JFS13663J.htm](https://compass.astm.org/DIGITAL_LIBRARY/JOURNALS/JFS/PAGES/JFS13663J.htm)

115

Zimmerman KA, Wallace JR. The Potential to Determine a Postmortem Submersion Interval Based on AlgalDiatom Diversity on Decomposing Mammalian Carcasses in Brackish Ponds in Delaware. Journal of Forensic Sciences 2008;**53**:935–41. doi:10.1111/j.1556-4029.2008.00748.x

116

Crime Scene Creatures - Diatom Detective (PBS).  
<http://www.pbs.org/wnet/nature/crime-scene-creatures-video-diatom-detective/5208/>

117

Forensic Files Historic Cases Reel Danger.  
13AD.<https://www.youtube.com/watch?v=cXcYpd1iacM>

118

Brock JH, Norris DO. Forensic botany: an under-utilized resource. 1997;**42**:364–7. [https://compass.astm.org/DIGITAL\\_LIBRARY/JOURNALS/JFS/PAGES/JFS14130J.htm](https://compass.astm.org/DIGITAL_LIBRARY/JOURNALS/JFS/PAGES/JFS14130J.htm)

119

Horrocks M, Walsh KAJ. Forensic palynology: assessing the value of the evidence. Review of Palaeobotany and Palynology 1998;**103**:69–74. doi:10.1016/S0034-6667(98)00027-X

120

Mildenhall DC, Wiltshire PEJ, Bryant VM. Forensic palynology: Why do it and how it works. Forensic Science International 2006;**163**:163–72. doi:10.1016/j.forsciint.2006.07.012

121

Brown AG. The use of forensic botany and geology in war crimes investigations in NE Bosnia. Forensic Science International 2006;**163**:204–10. doi:10.1016/j.forsciint.2006.05.025

122

Hawksworth DL, Wiltshire PEJ. Forensic mycology: the use of fungi in criminal investigations. Forensic Science International 2011;**206**:1–11. doi:10.1016/j.forsciint.2010.06.012

123

Mildenhall DC. Hypericum pollen determines the presence of burglars at the scene of a crime: An example of forensic palynology. Forensic Science International 2006;**163**:231–5. doi:10.1016/j.forsciint.2005.11.028

124

Wiltshire PEJ. Consideration of some taphonomic variables of relevance to forensic palynological investigation in the United Kingdom. Forensic Science International 2006;**163**:173–82. doi:10.1016/j.forsciint.2006.07.011

125

Plant detectives: How brambles can help solve murder cases - Dr Mark Spencer. <http://www.bbc.co.uk/programmes/articles/5q2xGXDZv0S7hg3KQl11vNg/plant-detectives-how-bramble-and-co-can-help-solve-crimes>

126

Crime Scene Creatures - Counting Rings to Catch a Murderer (PBS).

<http://www.pbs.org/wnet/nature/crime-scene-creatures-video-counting-rings-to-catch-a-murderer/5207/>

127

Jonathan Drori: Every pollen grain has a story.

8AD.<https://www.youtube.com/watch?v=vXDJ-nAykKE&feature=youtu.be>

128

Márquez-Grant N, Roberts J. Forensic ecology handbook: from crime scene to court.

Chichester: : Wiley-Blackwell 2012.

[http://ucl.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package\\_service\\_id=3189830300004761&institutionId=4761&customerId=4760](http://ucl.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3189830300004761&institutionId=4761&customerId=4760)

129

Micropalaeontological Society. The archaeological and forensic applications of microfossils: a deeper understanding of human history. London: : Published for the Micropalaeontological Society by the Geological Society 2017.

130

Missing Persons. Routledge 2016. doi:10.4324/9781315595603

131

Cox M. The scientific investigation of mass graves: towards protocols and standard operating procedures. New York: : Cambridge University Press 2008.

132

Brown, Antony G. The combined use of pollen and soil analyses in a search and subsequent murder investigation. *Journal of Forensic Sciences*; **47**

:614-8.[https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_scopus2-s2.0-0036100201&context=PC&vid=UCL\\_VU2&lang=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=primo\\_central\\_multiple\\_fe&tab=local&](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_scopus2-s2.0-0036100201&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&)

p;query=any,contains,The%20combined%20use%20of%20pollen%20and%20petrologic%20analyses%20in%20a%20search%20and%20subsequent%20murder%20investigation&p;sortby=rank&offset=0

133

Bryant VM, Jones GD. Forensic palynology: Current status of a rarely used technique in the United States of America. *Forensic Science International* 2006;**163**:183–97. doi:10.1016/j.forsciint.2005.11.021

134

Bryant VM, Jones JG, Mildenhall DC. Forensic palynology in the United States of America. *Palynology* 1990;**14**:193–208. doi:10.1080/01916122.1990.9989380

135

Horrocks, Mark. Forensic palynology: Variation in the pollen content of soil surface samples. *Journal of Forensic Sciences*; **43**.  
.https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\_proquest219694836&context=PC&vid=UCL\_VU2&lang=en\_US&search\_scope=CSCOP\_UCL&adaptor=primo\_central\_multiple\_fe&tab=local&query=any,contains,Forensic%20palynology:%20variation%20in%20the%20pollen%20content%20of%20soil%20surface%20samples&sortby=rank

136

Horrocks, Mark. Fine resolution of pollen patterns in limited space: Differentiating a crime scene and alibi scene seven meters apart. *Journal of Forensic Sciences*; **44**:417–20.https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\_proquest219695512&context=PC&vid=UCL\_VU2&lang=en\_US&search\_scope=CSCOP\_UCL&adaptor=primo\_central\_multiple\_fe&tab=local&query=any,contains,Fine%20resolution%20of%20pollen%20patterns%20in%20limited%20space:%20differentiating%20a%20crime%20scene%20and%20alibi%20scene%20seven%20meters%20apart.&sortby=rank

137

Jantunen J, Saarinen K. Pollen transport by clothes. *Aerobiologia* 2011;**27**:339–43. doi:10.1007/s10453-011-9200-8

138

Mildenhall DC. Forensic palynology in New Zealand. Review of Palaeobotany and Palynology 1990;**64**:227–34. doi:10.1016/0034-6667(90)90137-8

139

Pye K, Croft DJ, Geological Society of London. Forensic geoscience: principles, techniques and applications. London: : Geological Society 2004.

140

Riding, Jb. Changes in soil pollen assemblages on footwear worn at different sites. Palynology;**31**:135–51.[https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_wos000252435100014&context=PC&vid=UCL\\_VU2&lang=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=primo\\_central\\_multiple\\_fe&tab=local&query=any,contains,Riding%20JB,%20Rawlins%20BG,%20Coley%20KH.%20Changes%20in%20soil%20pollen%20assemblages%20on%20footwear%20worn%20at%20different%20sites.%20Palynology%202007;31:135%E2%80%93151.&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_wos000252435100014&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Riding%20JB,%20Rawlins%20BG,%20Coley%20KH.%20Changes%20in%20soil%20pollen%20assemblages%20on%20footwear%20worn%20at%20different%20sites.%20Palynology%202007;31:135%E2%80%93151.&sortby=rank)

141

Ruffell A. Forensic pedology, forensic geology, forensic geoscience, geoforensics and soil forensics. Forensic Science International 2010;**202**:9–12. doi:10.1016/j.forsciint.2010.03.044

142

Ruffell A, Wiltshire P. Conjunctive use of quantitative and qualitative X-ray diffraction analysis of soils and rocks for forensic analysis. Forensic Science International 2004;**145**:13–23. doi:10.1016/j.forsciint.2004.03.017

143

Wiltshire PEJ. Consideration of some taphonomic variables of relevance to forensic palynological investigation in the United Kingdom. Forensic Science International 2006;**163**:173–82. doi:10.1016/j.forsciint.2006.07.011

144

Wiltshire PEJ, Black S. The cribriform approach to the retrieval of palynological evidence from the turbinates of murder victims. *Forensic Science International* 2006;**163**:224–30. doi:10.1016/j.forsciint.2005.11.019

145

Zavada MS, McGraw SM, Miller MA. The role of clothing fabrics as passive pollen collectors in the north-eastern United States. *Grana* 2007;**46**:285–91. doi:10.1080/00173130701780104

146

Hawksworth DL, Wiltshire PEJ. Forensic mycology: the use of fungi in criminal investigations. *Forensic Science International* 2011;**206**:1–11. doi:10.1016/j.forsciint.2010.06.012

147

Etienne D, Jouffroy-Bapicot I. Optimal counting limit for fungal spore abundance estimation using *Sporormiella* as a case study. *Vegetation History and Archaeobotany* 2014;**23**:743–9. doi:10.1007/s00334-014-0439-1

148

Moore PD, Webb JA, Collinson ME. *Pollen analysis*. 2nd ed. Oxford: : Blackwell Scientific Publications 1991.

149

Nakagawa, T. Dense-media separation as a more efficient pollen extraction method for use with organic sediment/deposit samples: comparison with the conventional method. *Boreas*; **27**:15–24. [https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_wos000073443500002&context=PC&vid=UCL\\_VU2&lang=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=primo\\_central\\_multiple\\_fe&tab=local&query=any,contains,Nakagawa,%20T.%20Brugiapaglia,%20E.,%20Digerfeldt,%20G.%20Reille,%20M.%20De%20Beaulieu,%20J-L.%20and.%20Yasuda,%20Y%201998.%20Dense-media%20separation%20as%20a%20more%20efficient%20pollen%20extraction%20method%20for%20use%20with%20organic%20sediment%2Fdeposit%20samples:%20comparison%20with%20the%20conventional%20method.%20Boreas%2027,&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_wos000073443500002&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Nakagawa,%20T.%20Brugiapaglia,%20E.,%20Digerfeldt,%20G.%20Reille,%20M.%20De%20Beaulieu,%20J-L.%20and.%20Yasuda,%20Y%201998.%20Dense-media%20separation%20as%20a%20more%20efficient%20pollen%20extraction%20method%20for%20use%20with%20organic%20sediment%2Fdeposit%20samples:%20comparison%20with%20the%20conventional%20method.%20Boreas%2027,&sortby=rank)

150

Ruffell A, McKinley J. Geoforensics. Chichester, UK: : John Wiley & Sons, Ltd 2008.  
doi:10.1002/9780470758854

151

Dent BB, Forbes SL, Stuart BH. Review of human decomposition processes in soil. Environmental Geology 2004;**45**:576–85. doi:10.1007/s00254-003-0913-z

152

Forbes SL, Stuart BH, Dent BB. The identification of adipocere in grave soils. Forensic Science International 2002;**127**:225–30. doi:10.1016/S0379-0738(02)00127-5

153

Forbes SL, Stuart BH, Dent BB. The effect of the burial environment on adipocere formation. Forensic Science International 2005;**154**:24–34.  
doi:10.1016/j.forsciint.2004.09.107

154

Forbes SL, Dent BB, Stuart BH. The effect of soil type on adipocere formation. Forensic Science International 2005;**154**:35–43. doi:10.1016/j.forsciint.2004.09.108

155

Haglund W, Sorg M, editors. Forensic Taphonomy. CRC Press 1996.  
doi:10.1201/9781439821923

156

Stover E, Haglund WD, Samuels M. Exhumation of Mass Graves in Iraq. JAMA 2003;**290**.  
doi:10.1001/jama.290.5.663

157

Tibbett M, Carter DO, editors. Soil analysis in forensic taphonomy : chemical and biological effects of buried human remains. Boca Raton, Florida: : CRC 2008.  
[http://explore.bl.uk/primo\\_library/libweb/action/display.do?tabs=moreTab&ct=display&fn=search&doc=BLL01014458757&indx=1&reclids=BLL01014458757&reclidx=0&elementId=0&renderMode=poppedOut&displayMode=full&frbrVersion=&dscnt=1&scp.scps=scope%3A%28BLCONTENT%29&frbg=&tab=local\\_tab&dstmp=1477944307615&srt=rank&mode=Basic&vl\(488279563UI0\)=any&dum=true&tb=t&vl\(freeText0\)=soil%20analysis%20in%20forensic%20taphonomy%20chemical%20and%20biological%20effects%20of%20buried%20human%20remains&vid=BLVU1](http://explore.bl.uk/primo_library/libweb/action/display.do?tabs=moreTab&ct=display&fn=search&doc=BLL01014458757&indx=1&reclids=BLL01014458757&reclidx=0&elementId=0&renderMode=poppedOut&displayMode=full&frbrVersion=&dscnt=1&scp.scps=scope%3A%28BLCONTENT%29&frbg=&tab=local_tab&dstmp=1477944307615&srt=rank&mode=Basic&vl(488279563UI0)=any&dum=true&tb=t&vl(freeText0)=soil%20analysis%20in%20forensic%20taphonomy%20chemical%20and%20biological%20effects%20of%20buried%20human%20remains&vid=BLVU1)

158

The fascinating process of human decomposition.  
2014.<https://www.youtube.com/watch?v=OFJrow7yaec&feature=youtu.be>

159

Waxing Historical: A Potted History of Adipocere.  
12AD.<https://www.youtube.com/watch?v=apLz4uT6jWY&feature=youtu.be>

160

Anderson GS, Hobischak NR. Decomposition of carrion in the marine environment in British Columbia, Canada. International Journal of Legal Medicine 2004;**118**.  
doi:10.1007/s00414-004-0447-2

161

Delabarde T, Keyser C, Tracqui A, et al. The potential of forensic analysis on human bones found in riverine environment. Forensic Science International 2013;**228**:e1-5.  
doi:10.1016/j.forsciint.2013.03.019

162

Keiper JB, Casamatta DA. Benthic organisms as forensic indicators. Journal of the North American Benthological Society 2001;**20**:311-24. doi:10.2307/1468325

163

Parker R, Ruffell A, Hughes D, et al. Geophysics and the search of freshwater bodies: A review. *Science & Justice* 2010;**50**:141–9. doi:10.1016/j.scijus.2009.09.001

164

Dickson GC, Poulter RTM, Maas EW, et al. Marine bacterial succession as a potential indicator of postmortem submersion interval. *Forensic Science International* 2011;**209**:1–10. doi:10.1016/j.forsciint.2010.10.016

165

Magni PA, Venn C, Aquila I, et al. Evaluation of the floating time of a corpse found in a marine environment using the barnacle *Lepas anatifera* L. (Crustacea: Cirripedia: Pedunculata). *Forensic Science International* 2015;**247**:e6–10. doi:10.1016/j.forsciint.2014.11.016

166

Mateus M, de Pablo H, Vaz N. An investigation on body displacement after two drowning accidents. *Forensic Science International* 2013;**229**:e6–12. doi:10.1016/j.forsciint.2013.03.010

167

Merritt RW, Wallace JR. The role of aquatic insects in forensic investigations. In: Byrd JH, Castner JL, eds. *Forensic entomology : the utility of arthropods in legal investigations*. Boca Raton: : CRC Press 2000. 271–320. [http://explore.bl.uk/primo\\_library/libweb/action/display.do?frbrVersion=2&tabs=moreTab&ct=display&fn=search&doc=BLL01010447216&indx=1&reclds=BLL01010447216&recldxs=0&elementId=0&renderMode=poppedOut&displayMode=full&frbrVersion=2&dscnt=1&scp.scps=scope%3A%28BLCONTENT%29&frbg=&tab=local\\_tab&dstmp=1477947071905&srt=rank&mode=Basic&vl\(488279563UI0\)=any&dum=true&tb=t&vl\(freeText0\)=Forensic%20entomology%3B%20the%20utility%20of%20arthropods%20in%20legal%20investigations.&vid=BLVU1](http://explore.bl.uk/primo_library/libweb/action/display.do?frbrVersion=2&tabs=moreTab&ct=display&fn=search&doc=BLL01010447216&indx=1&reclds=BLL01010447216&recldxs=0&elementId=0&renderMode=poppedOut&displayMode=full&frbrVersion=2&dscnt=1&scp.scps=scope%3A%28BLCONTENT%29&frbg=&tab=local_tab&dstmp=1477947071905&srt=rank&mode=Basic&vl(488279563UI0)=any&dum=true&tb=t&vl(freeText0)=Forensic%20entomology%3B%20the%20utility%20of%20arthropods%20in%20legal%20investigations.&vid=BLVU1)

168

Ruffell A. Under-water Scene Investigation Using Ground Penetrating Radar (GPR) in the Search for a Sunken Jet ski, Northern Ireland. *Science & Justice* 2006;**46**:221–30. doi:10.1016/S1355-0306(06)71602-1

169

Police Divers &amp; Underwater Investigations.

<http://lawofficer.com/archive/police-divers-underwater-investigations/>

170

Underwater Forensics (Science Channel).

<http://www.sciencechannel.com/tv-shows/science-channel-presents/videos/discoveries-this-week-underwater-forensics/>

171

Underwater Forensics Robot on Beyond Tomorrow.

<http://www.dailymotion.com/video/x2xj6jp>

172

Flanagan RJ. Cut Costs at All Costs! Forensic Science International 2018;**290**:e26–8.  
doi:10.1016/j.forsciint.2018.06.038

173

Schneider CA, Rasband WS, Eliceiri KW. NIH Image to ImageJ: 25 years of image analysis.  
Nature Methods 2012;**9**:671–5. doi:10.1038/nmeth.2089

174

Cook R, Evett IW, Jackson G, et al. A hierarchy of propositions: deciding which level to  
address in casework. Science & Justice 1998;**38**:231–9.  
doi:10.1016/S1355-0306(98)72117-3

175

White P. Crime scene to court: the essentials of forensic science. 2nd ed. Cambridge, UK: :  
Royal Society of Chemistry 2004.

176

Reference and Research Book News. 2001;**16**

.[https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN\\_proquest199526850&context=PC&vid=UCL\\_VU2&lang=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=primo\\_central\\_multiple\\_fe&tab=local&query=any,contains,Houck,%20M.%20M.%20\(2001\).%20Mute%20witnesses:%20Trace%20evidence%20analysis:%20Academic%20Press.&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_proquest199526850&context=PC&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,Houck,%20M.%20M.%20(2001).%20Mute%20witnesses:%20Trace%20evidence%20analysis:%20Academic%20Press.&sortby=rank)

177

Inman K, Rudin N. The origin of evidence. Forensic Science International 2002;**126**:11–6. doi:10.1016/S0379-0738(02)00031-2

178

Evelt IW, Berger CEH, Buckleton JS, et al. Finding the way forward for forensic science in the US—A commentary on the PCAST report. Forensic Science International 2017;**278**:16–23. doi:10.1016/j.forsciint.2017.06.018

179

Morgan RM, Wiltshire P, Parker A, et al. The role of forensic geoscience in wildlife crime detection. Forensic Science International 2006;**162**:152–62. doi:10.1016/j.forsciint.2006.06.045

180

Morgan, RM. Conceptualising forensic science and forensic reconstruction. Part I: A conceptual model. 2017.

[https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=UCL\\_EPR\\_DS1563693&context=L&vid=UCL\\_VU2&lang=en\\_US&search\\_scope=CSCOP\\_UCL&adaptor=Local%20Search%20Engine&tab=local&query=any,contains,Morgan,%20R.%20M.%20\(2017\).%20Conceptualising%20forensic%20science%20and%20forensic%20reconstruction.%20Part%20I:%20A%20conceptual%20model.%20Science%20&%20Justice,%2057\(6\),%20455-459.&sortby=rank](https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=UCL_EPR_DS1563693&context=L&vid=UCL_VU2&lang=en_US&search_scope=CSCOP_UCL&adaptor=Local%20Search%20Engine&tab=local&query=any,contains,Morgan,%20R.%20M.%20(2017).%20Conceptualising%20forensic%20science%20and%20forensic%20reconstruction.%20Part%20I:%20A%20conceptual%20model.%20Science%20&%20Justice,%2057(6),%20455-459.&sortby=rank)

181

Ruffell A, McKinley J. Geoforensics. Chichester, UK: : John Wiley & Sons, Ltd 2008. doi:10.1002/9780470758854

182

Bull PA, Morgan RM, Sagovsky A, et al. The Transfer and Persistence of Trace Particulates: Experimental studies using clothing fabrics. *Science & Justice* 2006;**46**:185-95.  
doi:10.1016/S1355-0306(06)71592-1

183

French JC, Morgan RM, Baxendell P, et al. Multiple transfers of particulates and their dissemination within contact networks. *Science & Justice* 2012;**52**:33-41.  
doi:10.1016/j.scijus.2011.05.001

184

Morgan RM, Davies G, Balestri F, et al. The recovery of pollen evidence from documents and its forensic implications. *Science & Justice* 2013;**53**:375-84.  
doi:10.1016/j.scijus.2013.03.004

185

Morgan, RM. The forensic analysis of sediments recovered from footwear. In: *Criminal and Environmental Soil Forensics*. Springer 2009.  
[https://ucl.primo.exlibrisgroup.com/permalink/44UCL\\_INST/167dvkm/alma9931231541804761](https://ucl.primo.exlibrisgroup.com/permalink/44UCL_INST/167dvkm/alma9931231541804761)

186

Slot A, van der Weerd J, Roos M, et al. Tracers as invisible evidence — The transfer and persistence of flock fibres during a car exchange. *Forensic Science International* 2017;**275**:178-86. doi:10.1016/j.forsciint.2017.03.005

187

Analyzing fluorescence microscopy images with ImageJ.  
[http://www.microscopist.co.uk/wp-content/uploads/2018/09/ImageJ\\_FL\\_Image\\_Analysis.pdf](http://www.microscopist.co.uk/wp-content/uploads/2018/09/ImageJ_FL_Image_Analysis.pdf)

188

Kloster, Michael. *Fragilariopsis kerguelensis* images from sediment core PS1768-8, supplement to: Kloster, Michael; Kauer, Gerhard; Beszteri, Bánk (2014): SHERPA: an image segmentation and outline feature extraction tool for diatoms and other objects. *BMC Bioinformatics*, 15(1), 218. PANGAEA - Data Publisher for Earth & Environmental Science 2014. doi:10.1594/PANGAEA.833665

189

Kloster, Michael. Measurements of valves of the diatom *Fragilariopsis kerguelensis* from Southern Ocean sediment core PS1768-8, supplement to: Kloster, Michael; Kauer, Gerhard; Esper, Oliver; Fuchs, Nike; Beszteri, Bánk (2018): Morphometry of the diatom *Fragilariopsis kerguelensis* from Southern Ocean sediment: High-throughput measurements show second morphotype occurring during glacials. *Marine Micropaleontology*. 2018. doi:10.1594/PANGAEA.892593

190

Levin EA, Morgan RM, Griffin LD, et al. A Comparison of Thresholding Methods for Forensic Reconstruction Studies Using Fluorescent Powder Proxies for Trace Materials. *Journal of Forensic Sciences* Published Online First: 25 October 2018. doi:10.1111/1556-4029.13938

191

Levin EA, Morgan RM, Griffin LD, et al. A Comparison of Thresholding Methods for Forensic Reconstruction Studies Using Fluorescent Powder Proxies for Trace Materials. *Journal of Forensic Sciences* Published Online First: 25 October 2018. doi:10.1111/1556-4029.13938

192

Schneider CA, Rasband WS, Eliceiri KW. NIH Image to ImageJ: 25 years of image analysis. *Nature Methods* 2012;**9**:671–5. doi:10.1038/nmeth.2089

193

Schulze K, Tillich UM, Dandekar T, et al. PlanktoVision – an automated analysis system for the identification of phytoplankton. *BMC Bioinformatics* 2013;**14**. doi:10.1186/1471-2105-14-115

194

Cox MR, Budhu M. A practical approach to grain shape quantification. *Engineering Geology* 2008;**96**:1–16. doi:10.1016/j.enggeo.2007.05.005

195

Cox MR, Budhu M. A practical approach to grain shape quantification. *Engineering Geology* 2008;**96**:1–16. doi:10.1016/j.enggeo.2007.05.005

196

Igathinathane C, Pordesimo LO, Columbus EP, et al. Sieveless particle size distribution analysis of particulate materials through computer vision. *Computers and Electronics in Agriculture* 2009;**66**:147–58. doi:10.1016/j.compag.2009.01.005

197

Mazzoli A, Favoni O. Particle size, size distribution and morphological evaluation of airborne dust particles of diverse woods by Scanning Electron Microscopy and image processing program. *Powder Technology* 2012;**225**:65–71. doi:10.1016/j.powtec.2012.03.033

198

Mazzoli A, Moriconi G. Particle size, size distribution and morphological evaluation of glass fiber reinforced plastic (GRP) industrial by-product. *Micron* 2014;**67**:169–78. doi:10.1016/j.micron.2014.07.007