

OGT FORENSIC Ltd.

FORENSIC EXPERT WITNESS SERVICES

SOLICITOR COMMENT:

29. DEFENDANT ACQUITTED ON NINE CHARGES OF DRUGS TRAFFICKING AND FIREARMS POSSESSION

I write to thank you for the valued assistance that you gave in this case and I feel sure that your tenacity and thoroughness enabled Counsel to put forward submissions in relation to the DNA evidence which most certainly assisted our client.

I was very impressed with the way you carried out your investigations on the DNA evidence and cannot thank you enough.

If I should need any expert reports in regards to DNA evidence in the future, I will certainly have no hesitation in contacting you.

81: May 2018: R v Neale (Rape, Case Discontinued, Prosecution offered no evidence): "Thank you so much for all your hard work on this case. It was much appreciated by myself and the client. I will be definitely recommending you highly to colleagues, and hope to work with you again in the future. I was very impressed with your conscientiousness and attention to detail."

80: February 2018: R v El Hassan (Explosives/Ricin): "Thank you for your excellent report which was very helpful."

79: February 2018: R v Neale (Alcohol/Rape): "Many thanks for your expertise in this matter. It is much appreciated".

78: February 2018: R v Smith (Explosives): "Thank you very much for your assistance with D's trial."

77: February 2018: R v A (Alcohol/Rape): "...The prosecution have thrown out their toxicology report..."
"First of all thank you for all of your help in this trial. I was found not guilty with a unanimous decision after 10 minutes of deliberation this morning. Once again thank you for all of your help in this matter and I wish you all the best in your endeavours in the future."

76: January 2018: R v Douglass: (DNA): "The defendant has requested that we contact you to see if you are available to assist."

75: January 2018: R v Richards: (Alcohol) "Thank you for the time on Friday. Meeting you was brilliant. It was the first time I've really slept since the arrest."

74: January 2018: R v Cunningham: (DNA): Barrister's comment during a trial involving the consideration of the possibility of secondary transfer of DNA (defendant acquitted) "That was fantastic!".

73: 2016/2017/2018: Lawyer Monthly is pleased to announce the official publication of its 2018 Expert Witness Awards. The full edition can now be viewed online. Lawyer Monthly is delighted to once again have the opportunity to acknowledge leading industry experts who have overcome the legal challenges involved in their role and contributed to the legal sector in a tremendous way; not only have these experts reached the pinnacle of their professional career, but they also use their expertise to help solve all-important lawsuits.

Dr John Douse (OGT Forensic Ltd):

Forensic Expert Witness Services of the Year: 2016

Forensic Expert Witness of the Year (Explosives):2017

72: October 2016: In a complex DNA case in Northern Ireland where the defendant, accused of Child Rape, was acquitted: **"I am glad that I instructed you [in preference to the recommended expert], your work has provided me with great support over the last three years".**

71: August 2016: In a DNA case where the defendant had been acquitted (without the need for her to be cross examined) on a charge of assault by spitting, (made some two years prior to the trial), and where she had specifically requested that I be instructed in preference to experts recommended by the solicitor: **"I can't thank you enough for your thorough and relentless work on my case."**

70: July 2016: R v International Defence Firm (Where several millions of UK pounds in fines was demonstrated to have been inappropriate and unnecessary): (Accidental Discharge of a Military Rocket Motor). Comment by Managing Director: **"The thoroughness of your report and the strength of your case.....", "your balanced judgement to achieve this result."**

69: July 2016 R v International Defence Firm: (Saving of several million UK pounds in potential fines) Solicitors comment: **"I wanted to pass on my thanks for all of your hard work in relation to this matter. The client and we were delighted with your work!"**

68: June 2016 R v Sylton Legister: A case involving a seizure of 10kg of cannabis claimed to have been procured for the treatment of a terminally ill 88 year old mother, in extremis and beyond further medical help, as a component of a Jamaican "Bush Bath": Solicitors comment: **"What a result! Thanks for your effort. Much appreciated!!**

67: April 2016: R v Dogar. Barristers comment in a case where an urgent report was prepared mid trial and where only 4 hours sleep in a bed was achieved in 7 days: **"Thanks for all your help on this John. ...I owe you a [drink] for all your hard work!"**

66: March 2016: Comment by a defendant's carer in the case of a defendant jailed for life, and where we indicated the willingness to act pro bono as necessary, if required, in appeal/etc proceedings: **"I saw again today and told him your response to my e-mail. He said to thank you profusely for such kindness towards him."**

65: April 2016: Comment by a defendant (a landlord accused of being conscious of the presence of a cannabis growing operation in one of his rental properties) and who was self funded through both trials, in regard of verbal evidence at the second trial: **"It [your performance] was fantastic!"**
Comment by the solicitor in the same trial: "It went very well."

64: Jan 2016: Comment by a defendant (marine officer) in a case of the detection of a very low level of a cannabis metabolite in urine (contacted Wednesday, interviewed Thursday, Report produced by Friday): **"Again, thanks very much for all your help and fast response, it has definitely been helpful."**
Also: "My Union has said that it will independently pursue the challenge based on the content of your report."

63: Mar 2016: In a DNA case (accusation of assault- Scotland) (*Subsequently acquitted*) where the defendant instructed me in preference to the expert recommended by the solicitor: Defendant: **"Even if I have to pay double, I would still prefer to request your services."**
Husband of the defendant: "Dr Douse; Many thanks for...all your support, we appreciate all that you are doing for us at this difficult time."
Also: "Many thanks for all your hard work on behalf of [my wife]."
Also: "Many thanks for such a thorough report! I am sitting with [my wife] just now and we both agree that this seems a most comprehensive account of the alleged event. Many thanks again!"
Also defendant: "Dear Dr Douse, I want to thank you for your continued help and expertise. I would be lost without it."

62: Feb 2016: Comment by a defendant accused of the rape of a minor and who instructed me in preference to the expert recommended by his solicitor, in regard of the DNA report: **"I am just writing to show my appreciation of the report which you have done. I think it is brilliant."**

- 61: Mar 2016:** Comment by a solicitor following a Barrister conference in a case involving accidental ignition of a Rocket Motor: **"Thank you so much for everything that you did today."**
- 60: Mar 2016:** Comment by a defendant in a self represented alcohol drink driving case in regard of the first part of the trial: **"Thank you so much for everything that you did today."**
Response to her second appearance in a split trial: Contacted for urgent assistance at 23:30, on motorway at 00:30, hotel at 03:30, set up office at 4am, ready to receive brief and provide support to defendant at 9am. (this is an example of the support provided in a semi pro bono case).
- 59: Mar 2016:** Comment by a solicitor in regard of an application for funding in a firearms (tazer) case: **"..I will stress to them how excellent you are."**
- 58: Dec 2015:** R v Biddle: Barristers comment: **"We were able to significantly reduce the estimates [of the value of the cannabis cultivation operation] to a great extent, thanks to your report."**
- 57: Dec 2015:** Comment (exclamation) by a private client at a barristers conference in Bedford Row during a presentation of the analysis of the circumstances of an aspect of a case: **"How does he remember all of this?"**
- 56: Nov 2015:** Solicitors comment in regard of a report regarding military matters (Individual returned from Syria) (Photos and Videos): **"A good report!"**
- 55: Nov 2015:** Solicitors comment in regard of a report regarding military matters (Individual returned from Syria) (Analysis of a book for material of military significance): **"Spot on!"**
- 54: Nov 2015:** Solicitors comment in regard of assistance in a case of accusation of murder regarding euthanasia of a terminal MS patient in extremis, where our observation of the presence and likely influence of prescribed fentanyl resulted in the prosecution reducing the charge to manslaughter on the grounds of diminished responsibility: **"...You have been so helpful to our case!"**
- 53: October 2015:** In a complex DNA case where we were selected by the defendant as his expert over that recommended by the Barrister in the case: **"Dr John, I have read the report and I think it is out of this world. Just Brilliant! It was worth the wait on it!"**
- 52: October 2015:** In a private case (one of the new types where the defendant could not afford legal representation) involving a road traffic accident, an accusation of driving under the influence of excess alcohol, and a situation of post incident drinking: Comment by the defendant: **"Thank you so much for your guidance and voice of reason, much appreciated".**
- 51: September 2015:** In a complex case (multiple attempted murders by stabbing) involving assessment of the likely effects of olanzapine, carbamazepine, alcohol, cannabis and smoking, on the memory of an individual suffering from audiovisual hallucinations and PTSD: Comment by Junior Counsel: **"Dear Dr Douse, Many thanks for your report in this matter. Your report has been agreed by all parties and so we will not require you to give evidence at trial".**
- 50: May 2010:** Supreme Court Singapore: In a case involving consideration of the use of crystal methamphetamine (chemistry, toxicology, forensic toxicological analysis): The Judge commented at the close of the trial: **"Thank you for assisting the Court".**
- 49: June 2015:** In a case involving accusation of rape and alcohol/SSRI interactions, mid trial at Kingston Crown Court, (just after defence case almost complete): Instructed at 1600, case-file provided 1800-2200, full report delivered by 1030 next day. Barristers comment: **"I appreciate you are "up against it".....!"**
- 48: May 2015:** In a case involving chemicals, pyrotechnics, black powder/flash powder manufacture, fireworks and a cannabis cultivation operation, where another expert's report could not address the key issues: Following urgent instruction 10 days before the trial at the Old Bailey (1000 pages, 200 exhibits, 3 defence examinations, defendant interview, and production of two reports), the defendant (accused of Section 58, and HSE Offences) was given a suspended sentence and an ASBO. Solicitors comment: **"Thank you for your help. I will be sure to use you again!"**

47: March 2015: In a case involving an accusation of throwing an incendiary device onto a balcony: The prosecution withdrew any accusation, withdrew the charge, and also withdrew expert claims, that an attempt had been made to ignite the device. Solicitor's comment: **"The prosecution have introduced a (lesser) charge that did not require consideration of the device having been lit."**

46: March 2015: In a case involving the accusation of a Landlord in regard of a Cannabis Growing Operation set up in one of his rental lets (Efficiency of Air Conditioning and Charcoal Filtration System): Dear Dr Douse, **"I would just like to say, prior to the outcome on Monday, that I am very grateful for your help and was indeed impressed with the way you dealt with the Court and the Judge.You were admirably firm in dealing with... attempts to disrail you, and I really appreciate that. Your evidence was not open to any adverse interpretation at all..."**

45: December 2014: In a case involving DNA and an accusation of rape of a minor: **"I refer to our email exchange in October and confirm that my client wishes to instruct you to provide a report in his trial which is set for March 2015".**

44: October 2014: Solicitors comments In a case involving cultivation of cannabis for medical use in treating the chronic pain sequelae caused by multiple injuries from a cliff fall: **"I am very grateful for your report, which assists us greatly. I have served it upon the CPS.... (I am hoping that they will see sense and concede.)"**

43: October 2014: In a case involving toxicology, relating to an assault: **"Perfect, thanks Dr Douse. And thank you for taking the time to speak with me this morning."**

42: August 2014: In a case involving prescription drugs and driving (diazepam, tramadol, codeine), (acquitted on receipt of the second defence toxicology report (case discontinued)): Solicitors comment: **"Thank you for your assistance in this matter".**

41: August 2014: In a case involving an accusation of the rape of a 42 year old by a 15 year old foster child, the Judge dismissed the case upon receiving the defence toxicology report and the defendant was acquitted. Comment by defence Counsel: **"Your report was excellent!"**

40: July 2014: In a case involving a road traffic accident, severe injury and alcohol: **"Your assistance has been very much appreciated in this case".**

39: June 2014: In a case involving accusation of dealing cannabis, deemed for personal medical use (community service order): *Comment by solicitor:* **"A fabulous result!"**.

38: June 2014: In a case involving DNA (Class A Drugs, Firearms and Ammunition): **"Thanks again for your report, which I believe is very useful."**

37: May 2014: In a private case involving a landlord, where a tenant in one of his many properties had secreted a medium size cannabis growing operation:

"I have passed your CV to the client and we both were very impressed with your credentials."

"I spoke to the client today. He is very pleased and wants me to go ahead with instructing you."

"Thank you (for the report), This is a huge amount of work you have put in and I am sure that the Crown are going to be "blown away" by it!"

36: April 2014: In a private client case involving possible auto-brewery syndrome (Candida) (alcohol serious road traffic accident) in a Eurozone Country where the case proceeded to the European Court of Human Rights:

"Thank you very much for all of your help and support, I am very lucky to have met you."

35: March 2014: From an instructing QC Senior Counsel in a murder case involving Toxicology and DNA: **"Please could you give Dr Douse our sincere thanks and appreciation for his report. It has been invaluable in helping us focus on the delivery of our case."**

34: Dec 2013: Instructing Eurozone client's comments in regard of a 3 year involvement with a road traffic accident case involving possible Meiteisho (Autobrewery Syndrome), and where the threat of imprisonment, confiscation of driving license, the need to retake the driving test and also a driving ban were avoided:

"I feel I must write to tell you the happy news. I will get to keep my drivers licence. In my country it is not the Courts that handle those things, so I sent evidence to the lady official, and she made an exemption for me. Isn't that beautiful. I need not tell my son the car is gone. I will never forget the huge amount of work you put into this".

33. May 2013: Solicitors comment in a DNA case at the Central Criminal Court: **"I know that you are excellent and will do your best to achieve solicitors or Counsel's requests at short notice..."**

32. May 2013: A case of seized chemicals (explosives): **"He (*the client*) was extremely pleased with the result, and asked me to pass on his thanks to you for your assistance".**

31. COMMENT FROM A PRIVATE CLIENT (INTERNATIONAL EUROZONE) (April 2013)
Thank you again for the fantastic report!

30: CASE INVOLVING TRACES OF EXPLOSIVES ON A RUCKSACK RECENTLY TAKEN TO PAKISTAN (Instruction received Good Friday Lunchtime, Full report delivered by Easter Tuesday 0900)
"Thank you very much for your speedy work on this!"

29: CASE INVOLVING COCAINE/TRAMADOL/ALCOHOL RTA (Defendant acquitted) (April 2013)
"Thank you once again for your assistance and efficiency in this matter."

28: Comments from a barrister in a DNA case involving drugs arms and ammunition (21/03/13):
"The DNA report is very good...."

27: Prepared a report involving the likely effects of very high alcohol levels and the drug Pregabalin, which resulted in the defendant receiving a minimal sentence.

26: From a London Barrister in a case involving the requirement for the preparation of an urgent complex DNA report (26/11/12):

"Thank you. I appreciate your getting this to me so quickly".

For further urgent additions to a DNA report: "Thank you, once again, much appreciated!"

25: Prosecution expert (Met Police Evidence Recovery Unit) written observations and assessment of the Defence Expert's skills carrying out an examination of multiple exhibits in a DNA clean room (November 2012):

"All relevant laboratory procedures and precautions followed."

24: Solicitors Comment in a case involving burglary (touch DNA) (Acquitted) (Bristol Youth) (October 2012) "May I take this opportunity to thank you for all your endeavours in this case."

23: Firm of Swansea Solicitors following provision of reports in a number of cases: "We thank you again for your continued assistance to this firm and look forward to instructing you again in the near future."

22: Comment of the Guildford Hospital UK Insulin Analysis Expert upon witnessing the first detection of a trace of Insulin in a vanishingly small 4.5 year old blood sample by UHPLC Q-TOF MS-MS, in the case of the Leeds Insulin Serial Killer: "That was good science!"

21: Case involving accusation of the intent to manufacture crystal methamphetamine (acquitted):
"Thank you very much for all your help in this case."

20: Case involving Legal Highs (2012): "Your credentials speak for themselves".

19. "I thought you should know that C was acquitted by the unanimous verdict of section 18 GBH with intent! They were deliberating for 1 hour and 20 minutes (including the lunch adjournment). I have no doubt that this was largely due to your excellent efforts on his behalf without which I feel certain that he would have been convicted. Thank you for all your help which was above and beyond the call of duty!

I feel certain that we will meet again in the future and I will not hesitate in recommending your services to anyone who needs an expert in your field".

**18. "Yes, that's perfect thank you. Exactly what we were looking for!"
(Air Rage Urgent report Alcohol/Valium 3 days notice).**

17. Case involving saliva DNA (Robbery):

"The client was acquitted this afternoon when the prosecution withdrew the allegation. This was in no small part due to your excellent report that was very well written."

16. Explosives case at the Central Criminal Court: 22/06/12:

"I thought that you would like to know that E was acquitted today. He asked me to pass on his thanks to you for all your hard work."

"Just to let you know H was found NOT GUILTY.

Many thanks for all your kind assistance which greatly helped getting this great result."

15. 11/3/2012: Comment by a barrister in an explosive case in regard of instruction of a suitable expert: "It is unlikely that the prosecution will be able to instruct someone more distinguished."

14. 27/1/12 Comments by the Judge as a result of our report, in mitigation, in a case involving ricin and explosive manuals: " I accept that all of this material is available on the internet and can be brought from retailers such as Amazon and I accept that some of it is out of date."

13. 17/1/12

Comment by a solicitor in a case where a charge at Taunton Crown Court of heroin possession with intent to supply, was reduced to that of personal possession for the defendant's own use:

"Thank you for your report. It was extremely helpful."

12. Comment by a barrister at Taunton Crown Court in a case of rape of a minor (DNA):

"You are so perceptive!"

11. 28/11/11: Comment by Counsel at the end of proceedings in a case involving instruction manuals concerning explosives and toxins (Ricin):

(Instructed Friday, attended Manchester Crown Court Monday) " I am so glad that you were able to come!"

10. 22/11/11: Comment by Manchester solicitor upon prompt, urgent provision of quote and explosive and toxin (Ricin) CV's in terrorist case: "Excellent!"

9. 17/11/11: "I thank you again for the valuable report you prepared, which by the judge's admission carried a great deal of weight".

8. 10/11/11.....I can confirm receipt of your report and am grateful for the timely manner in which you have prepared the same, given the recent difficulties...

The report does go some way into undermining the Crown's stance regarding the DNA on the duvet and no doubt will prove useful at the trial.

I thank you for your time and effort and look forward to instructing you in the future".

7. 27/10/11 Outcome of the case: Defendant was completely acquitted from a charge of aggravated drunken driving.

This case is believed to be a World First, where the defence was primarily that alcohol detected was likely to have arisen as a result of endogenous production by fermentation in the intestinal system of the defendant. (His intestinal system having suffered significant permanent physiological damage as a result of a previous severe infection.)

6. "In a case involving gunshot residue at the Central Criminal Court, the prosecution barrister recommended that Dr Douse should be thanked by the Judge for bringing to the Court's attention the recent explosives publications involving the routine screening of public places for traces of explosives, which indicated that police transports and premises were likely to be contaminated with gunshot residue as a result of the presence of police and seized firearms and other contaminated exhibits. This led to the acquittal of the defendant in this case."

5. **6/10/2011: COMMENT FROM A PRIVATE INTERNATIONAL CLIENT** (represented through a local solicitor (Eurozone)) Before outcome of the trial was known: ***"Very nice to meet you in person....."
"Because to me you are a rare blessing, someone a bit like my grandfather, who puts quality and pride in his work far above money."***

4. "Dr Douse is the kind of expert witness you would wish for, if you, or a beloved relative is in trouble. Suddenly I found myself distant from people that would charge me for every second of their precious time. And in dialogue with an interested, well established, yet curious person. That would not stop until there was some order in the chaos and disbelief, that occurred after being accused of what could not be true. When even I got tired of myself for sending so many e-mail, he assured me that he was not, and that every detail was important. That seems to be the way he gets results, that is by seriously contemplating details, that may not seem important, or even worth mentioning, to a person uneducated in Dr Douses field of knowledge. If there is anything in the scientific literature that may support your claim, it seemed he would find it. And if that was'nt certain he did not hesitate to arrange individual experiments of his own, being a progressive established scientist in his own right. Yet he took my own ideas and investigations seriously, respectfully, and generously admitted when I had a point. Even though some of them must have seemed stupid, in the eyes of a highly educated person, in his field. That was the way I experienced a steady flow of progression, that resulted in a well written, comprehensive report, finished off by an impressive list of Dr Douse's previous accomplishments, education, and research, in such a manner that it would be hard to have any doubts left about his qualifications to write such a report. He offered to do a briefing with my solicitor, that had problems understanding all aspects of the complex field of science that it was all about, and he even lighted up the room doing it, with a sense of humour. He also did a well prepared appearance in court, properly dressed, and gave a professional impression. All that is from what I can imagine all you could ask for. But on top of that it was really pleasant to spend some time with him, picking him up from the airport. He offered to tie my tie (dressing casually as a modern IT expert, I had forgotten the procedure), and insisted to pay for dinner after the big day in court was over. Like a friend on a rainy day. Thank God I am still distant from those that would charge me for every second of their precious time, 'cause who could afford to pay for all that time, that it actually took?"

3. **23/9/2011: DRUGS CRYSTAL METH LAB** **"I am delighted to be able to report that Mr X was granted bail at the Crown Court.. based to a large extent on your report.....I am hopeful that they will agree that they do not have a case and they offer no evidence..."**

2. **1/8/2011** Bristol Solicitor comment relating to a Murder Trial in 2011 (where both written and oral evidence was given), when requested, in writing, to provide a reference to the UK Expert Witness Guide (JS Publications): **"It would be a pleasure!"**

1. **2001 Lockerbie Judgment (7) (30/01/2001):** "...there was also the evidence from Dr Douse who has specialised for many years in the trace analysis of drugs and explosives.... He pioneered the use of capillary gas chromatography, which is now a well recognised procedure." **2001 Lockerbie Judgment (7) (30/01/2001):** "...there was also the evidence from Dr Douse who has specialised for many years in the trace analysis of drugs and explosives.... He pioneered the use of capillary gas chromatography, which is now a well recognised procedure."

"In a case involving gunshot residue at the Central Criminal Court, the prosecution barrister recommended that Dr Douse should be thanked by the Judge for bringing to the Court's attention the recent explosives publications involving the routine screening of public places for traces of explosives, which indicated that police transports and premises were likely to be contaminated with gunshot residue as a result of the presence of police and seized firearms and other contaminated exhibits. This led to the acquittal of the defendant in this case."

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EXPERTISE

WE MAINTAIN OUR EXPERTISE BY CONTINUOUS CASE EXPERIENCE, GIVING REGULAR ORAL EVIDENCE IN COURT AND CONTINUING RELEVANT CPD (eg. Explosives courses at ISSEE).

TOXICOLOGY

+CAUSE OF DEATH /RICIN / INSULIN / AIR RAGE / ALCOHOL DRINK DRIVING / PESTICIDES / CHEMICAL WEAPONS OF MASS DESTRUCTION

DRUGS

+CANNABIS (CULTIVATION, IDENTIFICATION, USAGE, VALUATION, ANALYSIS, PARAPHERNALIA), COCAINE / AMPHETAMINE / METHAMPHETAMINE / HEROIN / DESIGNER DRUGS / ETC. / ILLICIT LABORATORIES / COUNTERFEIT PHARMACEUTICALS

DNA

+MIXED PROFILES / INNOCENT SOURCES / CROSS CONTAMINATION / QUALITY CONTROL

GUNSHOT RESIDUE

+PRIMER AND PROPELLANT RESIDUE /INNOCENT SOURCES/ CROSS CONTAMINATION / QUALITY CONTROL

EXPLOSIVES

+EXPLOSIVES / EXPLOSIVE DEVICES / EXPLOSIVE TRACES
INCENDIARIES / FIREWORKS / PYROTECHNICS

OTHER

+ACCELERANT RESIDUES / FIRE STARTING
SECURITY DYES

- ALL YOUR FORENSIC CHEMISTRY NEEDS
 - ALSO OTHER AREAS OF FORENSIC SCIENCE WHERE DETAILED KNOWLEDGE AND UNDERSTANDING OF BASIC SCIENTIFIC PRINCIPLES ARE REQUIRED TO INVESTIGATE THE PROCEDURES USED.
-

<u>CONTROLLING PROFESSIONAL BODIES:</u>	FORENSIC SCIENCE SOCIETY	(FELLOW)
	ROYAL SOCIETY OF CHEMISTRY	(FELLOW)
	CHROMATOGRAPHIC SOCIETY	(FELLOW)
	THE EXPERT WITNESS INSTITUTE	(MEMBER)
	INSTITUTE OF EXPLOSIVE ENGINEERS	(MEMBER)
	BRITISH TOXICOLOGY SOCIETY	(MEMBER)

HOW WE WORK

We take each and every case in which we are instructed and thoroughly investigate every aspect of the case circumstances in combination with the forensic evidence.

This method is increasingly applied to cases where other experts, who often have only very limited training and experience, have previously used only a superficial approach, eg. simply answering a few instructed questions, (common in cases where such experts attempt as many as several hundreds of cases per year).

This full and comprehensive investigative approach is increasingly showing these, only limited attempts by other experts, to be potentially dangerously misleading, and is increasingly leading to changes of plea and subsequent acquittals.

Some examples of the power of such a thorough approach are as follows:

An executive accused of rape where the previous experts had not challenged the prosecution findings. Thorough investigation revealed a serious medical condition affected by alcohol, and also evidence of the level of intoxication of the alleged victim which resulted in a unanimous acquittal (2017) (Prosecution abandoned their alcohol report).

An individual who had been found to be over the alcohol limit, and where the previous experts had not challenged the prosecution findings. Thorough investigation led to the identification of no fewer than three witnesses who had all observed an individual to have been adding a colourless liquid from a red labelled bottle to the defendant's drink. Also a breach of procedure was found in regard of the use of an alcohol containing inhaler during the quarantine period just prior to evidential breath analysis. This resulted in immediate change of plea from guilty to not guilty (2016).

An individual accused of murder (euthanasia) and where the circumstantial evidence revealed that the prescription of fentanyl as a pain killer to an individual suffering end of life extremis had been the most likely cause of death. Checking the prosecution analytical results confirmed this oversight and resulted in the prosecution dropping the murder charge (2016).

A care home accused of murdering a resident by over-prescription of Prozac. Consideration of a likely pharmacogenetic cause resulted in the opposing expert (who had carried out 6000 cases) retracting his report (2010).

In a case where it was believed that there was a clear cut outcome of death due to dangerous driving under the influence of drugs and alcohol, and the defence was admonished when it requested more time to investigate the circumstances with serious risk of severe disciplinary outcome: Careful and persistent interview of the highly traumatised defendant in prison revealed that the drugs and alcohol levels detected were potentially likely to have been as a result of a post incident desire to self harm, and also the vehicle was found to be of such a possible poor design and state of disrepair, that it was likely that this situation was to blame / a major contributor for both the accident and consequences. The defendant was given a much reduced sentence (2016).

In a criminal case (HSE) involving a multinational defence firm where a munition propulsion system had accidentally discharged in a laboratory, (but without injury), logical and detailed scientific argument was able to prove, (and to be accepted by the prosecution expert), that the majority of the criticisms put forward by the prosecution in regard of the on-site and off-site risks, had no support in scientific principle. The firm was fined a low six figure sum with an estimated saving of five million UK pounds.(2016)

In a case involving chemicals, pyrotechnics, black powder/flash powder manufacture, fireworks and a cannabis cultivation operation, where another expert's report could not address the key issues: Following urgent instruction 10 days before the trial at the Old Bailey (1000 pages, 200 exhibits, 3 defence examinations, defendant interview, and production of two reports), the defendant (accused of Section 58, and HSE Offences) was given a suspended sentence and an ASBO. (2015).

In a case involving cultivation of cannabis plants for the purpose of treating severe intractable pain, caused by serious injuries arising as a result of a fall from a 100 foot cliff. The defendant received a suspended sentence. The Judge ordered that I act as both expert for the defence and prosecution at Court disallowing the evidence of the prosecution Chief Drugs Expert (2014).

An immigrant couple was accused of crushing a 28 day old neonate to death. Investigation revealed the likelihood that an over zealous application of a traditional Sri Lankan herbal/folk remedy (a camphor aerosol/vapour) was more likely to have been the cause.

In a murder case, a training shoe was photographed by the prosecution expert and the laboratory photos compared with those obtained by CCTV. It was shown by the defence that the lighting used in the laboratory photographs had

caused fluorescence induced patterns that were not visible on the CCTV. Repetition of the photography by the expert who had performed 490 cases showed this defence observation to be correct.

In a case involving a thrown improvised incendiary device, the defence report demonstrated that no attempt was likely to have been made to ignite the device, the device was not viable in its intended configuration and that a detected accelerant component could have originated from possible barbecue activity on a balcony (2015).

In a case involving an accusation of the rape of a 42 year old by a 15 year old foster child, the Judge dismissed the case upon receiving the defence toxicology report and the defendant was acquitted.(2014).

18,000 page internet download (Explosive materials) extracted from a 250,000 page torrent download: Thorough analysis of the files and completion of three reports (196, 92 and 26 pages) resulted in all section 58 charges (Explosives) being dropped.

If you feel that your case could benefit from such a detailed and painstaking approach, please contact us for a discussion of the case circumstances, on 07766 286 001 or by e-mail to drjohndouse2@btinternet.com

FORENSIC EXPERIENCE

10 Years Metropolitan Police Forensic Science Laboratory (UK) (Research and Casework)

4 Years Forensic Explosives Laboratory, Fort Halstead (UK) (Research, Casework, Trace Laboratory Operation, Sampling Kit Manufacture and Quality Control)

11 Years as an Independent Forensic Expert (UK), Europe and the Far East

Report selected from those of four UK Independent Experts to defend all 8 defendant's in the Liquid Explosives Transatlantic Airliner Plot Trial.

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 - **EXPERT WITNESS INSTITUTE EXPERT WITNESS REGISTER**
 - **ROYAL SOCIETY OF CHEMISTRY REGISTER OF EXPERT WITNESSES**
 - **LAW SOCIETY SOLICITORS AND BARRISTERS DIRECTORY**
 - **LAW SOCIETY GAZETTE LEGAL SERVICES DIRECTORY**
 - **XPRO WITNESS SERVICES**
 - **SOLICITORS JOURNAL GUIDE TO LEGAL SERVICES**
 - **EXPERT SEARCH.CO.UK**
 - **SWEET AND MAXWELL EXPERT WITNESS GUIDE/LEGAL HUB**
 - **SOLICITORS JOURNAL**
 - **LAW SOCIETY GAZETTE**
 - **BARRISTERS JOURNAL**
 - **LEGAL EXECUTIVE JOURNAL**
 - **LAW SOCIETY GAZETTE**
 - **LOCAL LAW SOCIETY JOURNALS**
 - **LEGAL HUB (Sweet & Maxwell)**
 - **WATERLOW LEGAL ONLINE**
 - **LAWPAGES.COM**
 - **LINKEDIN**
-

EXPERTISE DETAIL:

ALCOHOL

Back calculations, Effects, Air rage, Impairment, Visual recognition of impairment, Serious injury liability, Illicit fermentation, Illicit production, Illicit distillation

ACCELERANT RESIDUES

Improvised, Commercial, Trace analysis, Petrol bombs, Firestarting, Identification

CANNABIS

Trace analysis, Chemistry, Growing operations, Growing equipment, Hash oil extraction, Identification, Paraphernalia, Valuation, Growth yield, Usage rates, Medical uses, Road traffic accident impairment, Personal usage rates

CHEMICAL WEAPONS

Military, Improvised, Chemicals, Toxin (Ricin), Devices- explosive, Devices- dissemination, Detection, Training manuals

CS SPRAYS

Trace analysis, Effects, Usage, Recommended tactics

DNA

Trace analysis, Profile comparison, Quality assurance, Contamination issues, Low copy number profile interpretation

DRUGS

Analysis, Purity, Identification, Pharmaceuticals, Illegal drugs, Designer drugs, Banknote contamination, Detection-laboratory, Detection- roadside, Chemical synthesis, Illegal laboratories, Counterfeit drugs, Paraphernalia, Cultivation, Growing operations, Chemical synthetic operations, Usage rates, Valuation, Growth yield, Counterfeit Viagra, Date rape

EXPLOSIVES

Military explosives, Commercial explosives, improvised explosives, Bombs, Ammunition, Roadside devices, Improvised explosive device design, Improvised explosive production health and safety, Electrical circuits, Chemical synthesis, Illegal laboratories, Training manuals, Target attack principles, Training, Petrol bombs, Chemical WMD devices, Toxin WMD (Ricin) devices, Trace analysis, Contamination, Quality assurance, Car bombs, LPG devices, Roadside IEDs, Timers, Booby traps, Detection, New explosives, Incompatibility of ingredients, Effects, Dirt bomb devices, Radioactive isotopes, Defence against, Destruction of aircraft, Potential stability, Effectiveness against complex targets, Trials, Demonstrations, High speed photography, Disposal, Device detection, Improvised detonators, Target selection, Target planning, Target approach, Stand-off devices, Rare examples.

FIREWORKS

Accidents, Improvised, Ballistics, Trajectories, Failure

GUNSHOT RESIDUE

Organic, Inorganic, Trace analysis, Contamination, Quality assurance, Natural occurrence

INCENDIARIES

Military, Commercial, Improvised, Devices, Detection, Firestarting, Target attack principles, Petrol bombs, Delay timers- military, Delay timers- improvised, Effects, Thermite, Rare examples, Training manuals.

PYROTECHNICS

Military, Commercial, Improvised, Malfunctions, Disposal.

RICIN

Extraction procedures, Dissemination, Administration, Training videos, Training manuals, Toxicity, Trace analysis, Confirmation

SECURITY DYES

Trace analysis, Identification, Natural occurrences/legal usage, Contamination issues, Quality control.

TOXICOLOGY

Ricin, Insulin, Cannabis, Cocaine, Heroin, Ecstasy, Amphetamines, Designer drugs, Pharmaceuticals, Toxins, Pesticides, Chemicals, Alcohol, Illegal drugs, Trace analysis, Effects, Air rage, Fitness to drive, Impairment, Alcohol back calculations, Cause of death, Pharmacogenetics, Post mortem distribution

NOTABLE RESULTS:

A RESUME OF OUR 29 MOST RECENT NOTABLE CASEWORK ACHIEVEMENTS

IN COURT IN 2018

- 87: MAY: R v Pennington: In the case of accusation of arson by firework, the Crown discontinued the case.
- 86: MAY: R v Neale: In a case of accusation of rape, following production of a detailed report the case was discontinued and the Crown offered no evidence.
- 85: MAY: R v Thomas (DNA, Firearm) (Acquitted).
- 84: APRIL: R v Khan (DNA, Firearms) Acquitted.
- 83: JANUARY: R v Cunningham (DNA, Robbery) All three defendants were acquitted.
- 82. JANUARY: In a case involving the detection of traces of DNA on a sports bag recovered from a van involved in an armed robbery, consideration of the possibility of secondary transfer resulted in all three defendants being acquitted.

81. JANUARY: In a case involving the detection of the DNA of the defendant on a cache of firearms: following the experts conference and the defence revealing to the prosecution expert that a likely very efficient mechanism of secondary transfer had been identified as a result of surveillance video and human observation, the prosecution declared no evidence and the defendant was acquitted.

IN COURT IN 2017

80. DECEMBER: Assisted EOD in the examination and identification of a historical cache of training pyrotechnics from the estate of a deceased Army Officer.
79. NOVEMBER: Gerard Byrne. In a case in Eire a report was prepared regarding the neuro-toxicological and cardiotoxic effects of hydrogen sulphide present in sewer gases, for a damages claim, made by an individual involved in clearing fortnightly accumulations of putrefying animal residues from blocked industrial drains without any respiratory protection.
78. NOVEMBER: R v El Hassan. In a case involving Ricin, a report was prepared regarding the toxicology of this compound to assist defence Counsel.
77. NOVEMBER: R v Khan. In a case involving accusation of assault by a brother of the defendant, following an argument with the father, the brother was found to have been heavily involved in a programme of weight training/body building abusing Androgenic Anabolic Steroids, female hormones and insulin medications. (Acquitted).(Prosecution presented no evidence following receipt of the toxicology report).
76. OCTOBER: R v Richards. In a case involving driving with excess alcohol, (despite evidence in two reports by other experts) exhaustive investigation of the circumstantial evidence in the case demonstrated, that no less than three individuals could testify that the defendant's drink had been observed to have been spiked with a colourless liquid, from a red labelled bottle thought to have been vodka. The plea was changed to not guilty.
75. AUGUST: In an urgent case involving alcohol and child care proceedings (mother accused of being drunk in charge of a child under 7 years old). No evidence was found that the mother had ever been significantly intoxicated. It was noted additionally that no set alcohol limit had ever been set for such an offence. (Acquitted).
74. AUGUST: R v Douglass. In a case involving DNA traces on a silenced compact hand gun, exhaustive investigation of the circumstances of the case revealed that the defendants lived in close proximity, possibly sharing clothing and towels at a gym and when training at home, and which could have led to inadvertent transfer of the minute trace of cellular material containing DNA which was detected by DNA-17. (Acquitted).
73. JULY: In a case involving an individual, who had consumed alcohol, accused of raping a female at a railway station, exhaustive investigation of the circumstances of the case revealed serious medical issues regarding undiagnosed ADHD syndrome. The level of alcohol in the blood of the alleged victim was also investigated and the prosecution report discarded. (Unanimously acquitted).
72. JULY 2017: In a case involving improvised fireworks, prepared from match head composition and bolt gun double base propellant, and designed to produce a loud report; the defendant avoided a sentence of detention for an indefinite period and instead was released several weeks after the trial at the end of a period of detention.
71. DECEMBER 2016: In a case involving 14 grams of crack cocaine the defendant was deemed to have purchased the material for his own use.
70. OCTOBER 2016: In a DNA case in Northern Ireland where the defendant was accused of multiple child rape with associated use of an offensive weapon, the defendant was acquitted.
69. AUGUST 2016: In a DNA case involving an accusation of assault by spitting, the defendant was found to suffer from Xerostomia (lack of production of saliva), and consideration of this situation along with the other DNA evidence in the case, resulted in her being acquitted without the need for defendant cross examination.
68. R v International Defence Firm JULY 2016: In a criminal case involving a multinational defence firm where a munition propulsion system had accidentally discharged in a laboratory, (but without injury), logical and detailed scientific argument was able to prove, (and to be accepted by the prosecution expert), that the majority of the criticisms put forward by the prosecution in regard of the on-site and off-site risks, had no

support in scientific principle. The firm was fined a low six figure sum with an estimated saving of several million UK pounds.

- 67: R v Sylton Legister JUNE 2016: In a case involving a 60 year old Jamaican male apprehended with 10 kg of likely poor quality cannabis in his car, and who claimed that it was for the purpose of the palliative treatment of his terminally ill, 88 year old mother who was in extremis and beyond further medical help, using an infusion of this material in a traditional Jamaican "Bush Bath": Following provision of forensic drug and toxicology evidence, the defendant was given a 2 year suspended sentence.
- 66: R v Perkins April 2016: In a case where it was believed that there was a clear cut outcome of death due to dangerous driving under the influence of drugs and alcohol, and the defence was admonished when it requested more time to investigate the circumstances with serious risk of severe disciplinary outcome: Careful and persistent interview of the highly traumatised defendant in prison revealed that the drugs and alcohol levels detected were potentially likely to have been as a result of a post incident desire to self harm, and also the vehicle was found to be of such a possible poor design and state of disrepair, that it was likely that this situation was to blame / a major contributor for both the accident and consequences. The defendant was given a much reduced sentence.

IN COURT IN 2015

- 65: R v CHARLENE WILSON (AUTUMN 2015): A charge of possession with intent to supply cannabis was reduced to one of possession. The cannabis was being used to treat the severe pelvic pain due to Symphysis Pubis Dysfunction.
- 64: R v Biddle (12/2015): In a case involving a large cannabis growing operation: demonstrated that a significant amount of seized plant material was in fact low value waste "Trim" (trimmings from cannabis flowering tops), showed that: the sentencing guidelines yield per plant was appropriate, the quality was unproven (affecting value), thus reducing appropriately, the estimates of crop yield, quality and hence overall value.
- 63: R v Hajila (09/2015) In a case involving attempted murders by stabbing, a report was prepared involving assessment of the likely toxicological effects of olanzapine and carbamazepine, in combination with heavy alcohol consumption, cannabis and smoking, on the memory of an individual suffering from symptoms of audiovisual hallucinations as a result of severe psychological challenges and PTSD. The findings of this complex report were accepted by all parties to the case.
- 62: R v Gazeley (08/15): In a case involving assisted death by claimed asphyxiation of a late stage Multiple Sclerosis/Alexanders disease sufferer (a wife of 55 years) in fear of locked in syndrome and in extremis, the defendant was accused of murder. Defence examination revealed that palliative fentanyl had been prescribed and this was confirmed by re-interrogation of the UHPLC MS-MS data at the defence examination. This drug in combination with palliative oral morphine was likely to have been responsible for the death of the patient, (who had been refusing food, water, treatment and medication for some time), and as a result of the defence examinations, discussion between experts, and lack of any evidence of any effective attempt at asphyxiation, the charge was reduced to one of manslaughter under the grounds of diminished responsibility. (Suspended sentence).
- 61: R v Cain: In a case involving accusation of rape and alcohol/SSRI interactions, mid trial at Kingston Crown Court, (just after defence case almost complete): Instructed at 1600, case-file provided 18.00-22.00, full report delivered by 10.30 next day.
- 60: R v Harris (05/15): In a case involving chemicals, pyrotechnics, black powder/flash powder manufacture, fireworks and a cannabis cultivation operation, where another expert's report could not address the key issues: Following urgent instruction 10 days before the trial at the Old Bailey (1000 pages, 200 exhibits, 3 defence examinations, defendant interview, and production of two reports), the defendant (accused of Section 58, and HSE Offences) was given a suspended sentence and an ASBO.
- 59: R v Brown (04/15): In a case involving a thrown improvised incendiary device, the defence report demonstrated that no attempt was likely to have been made to ignite the device, the device was not viable in its intended configuration and that a detected accelerant component could have originated from possible barbecue activity on a balcony.
- 58: R v Tiwana (03/15): In a case involving an accusation of manslaughter, the defendant was acquitted when the toxicology report revealed long term cannabis and cocaine abuse in an alleged victim who was suffering from a congenital heart defect.

IN COURT IN 2014

- 57: R v Rowe (10/14): In a case involving cultivation of cannabis plants for the purpose of treating severe intractable pain, caused by serious injuries arising as a result of a fall from a 100 foot cliff. The defendant received a suspended sentence.
- 56: R v Ghulam (09/14): In a case involving Cannabis (interpreting text messages, estimating yield and price) the defendant was given a fine and a suspended sentence.
- 55: R v Greenstreet (08/14): In a case involving prescription drugs and driving (diazepam, tramadol, codeine), upon receipt of the toxicology report, the prosecution discontinued the case (acquitted).
- 54: R v Ghat (08/14): In a case involving an accusation of the rape of a 42 year old by a 15 year old foster child; the Judge dismissed the case upon receiving the defence toxicology report and the defendant was acquitted.
- 53: R v Zaman (08/14): In a case of serious injury in a road traffic accident an accusation of failure to provide was dropped by the prosecution upon receipt of the report. (Acquitted).

IN COURT IN 2013

- 52: R v Howell (12/13): In a case of suspected driving under the influence of Cannabis the prosecution offered no evidence and the defendant was acquitted.
- 51: PP v Sjogren: A case involving possible Meiteisho (Autobrewery syndrome). Imprisonment was avoided, the license of the defendant was not confiscated, and the defendant was not banned from driving.
- 50: R v Sharif: (09/13) The yield per cannabis plant was reduced by one half from the claimed prosecution value, through presentation of the latest (2013) research reported in the peer reviewed.
- 49: R v Peach (08/13) Case involving accusation of inappropriate touching during a photo shoot (DNA evidence) Defendant Acquitted.
- 48: R v Finnikin (06/13): In a case of home grown cannabis plants, the purpose of the home grow operation was accepted as being for the treatment of the pain of the terminal disease Sarcoidosis.
- 47: R v Briody (05/13): A case of seized chemicals (Explosives). Sentence reduced.
- 46: R v Lyons (04/13) Alcohol/Tramadol/Cocaine: RTA (Acquitted).
- 45: R v Baqa: (04/13) 18,000 page internet download (Explosive materials): All section 58 charges (Explosives) Dropped.

IN COURT IN 2012

- 44: R v Riaz: (15/11/12): DNA High value drug seizure (Acquitted).
- 43: R v Ahmed: (25/10/12) (Oral Evidence provided) (Bristol Youth Court) DNA Burglary (Acquitted).
- 42: R v Slaughter: (22/10/12) (Maidstone Crown Court) Touch DNA on a drug wrap (Acquitted).
- 41: R v Ejeta (Acquitted) (03/10/2012) (*East Croydon Crown Court*)
This case involved an accusation of the intent to manufacture crystal meth (methamphetamine) using equipment and chemicals seized. Following exchange of numerous scientific expert reports the prosecution decided to offer no evidence.
"A preliminary report gained the defendant bail."
- 40: R v O'Dwer (Acquitted) (29/09/2012) (*Bristol Crown Court*)
This case involved the sale of "Legal High's" in the form of mixtures of natural herbs. Demonstrated that the prosecution analytical results were likely to have been neither quantitatively accurate or representative of the products analysed. This was accepted by the prosecution, and occurred as a result of only a limited instruction to screen the samples having been given at the time of analysis. (Interesting analyses of enantiomers of ephedrine and pseudoephedrine were encountered).

- 39: R v Abdulrahman Saleh (Saliva DNA Robbery):
The client was acquitted when the prosecution withdrew the allegation.
- 38: P. Singh Coroners Enquiry 05/07/12 (Manchester):
Gave evidence in regard of rare side effects of Cefuroxime.
- 37: R v Michelle Smith 09/04/2012 (Swansea):
Prepared a report in regard of toxicity of dihydrocodeine and metabolites to a neonate.
- 36: R v Ertakan 15/06/12 (Central Criminal Court):
Analysis was presented for the AlQaeda Chef recipe "Make a bomb in the kitchen of your Mom" Inspire magazine. Result: Defendant acquitted
- 35: R v Hadley Pascal Foster 05/2012 (Snaresbrook):
Upon receipt of our report the charge was reduced from S-18 GBH to S-20 GBH.
- 34: R v N Thomas 11/2/2012 (Bristol):
A case of possession of amphetamine was discontinued and the defendant acquitted due to control blank analytical solvent analyses having not been used between GCMS analyses of case samples.
- 33: R v Daniel Jones 05/03/12 (Hove):
In a case of rape involving alcohol and diazepam, following the expert's conference at Court the charge was dropped and the defendant acquitted. This case was remarkable as the reason for the acquittal was because it could not be certain in this case that the defendant could have recognised that the alleged victim was capable or not of giving consent.
- 31: R v Sampson (17/1/12): The charge of possession of heroin for the purposes of sale to others was reduced to that of possession. This was achieved by experimental demonstration that the largest part of the seizure crystallised upon cooling after dissolution, resulting in irreparable blockage of the syringe, and hence was unusable (as claimed by the defendant), and also through a consideration of the likely usage rate of the very impure heroin seized.

IN COURT IN 2011

- 30: R v Crawford 2011 Gunshot Residue (Bristol): Our observations of the likely common usage of very large numbers of cartridge operated bolt guns and staple fasteners having primer activation and also very often nitroglycerine as a propellant energetic additive in construction, appears to have been recognised by the implementation in forensic laboratories of new precautionary briefings to those visiting, that they should have showered and changed their clothes before coming to the laboratory if they have recently used such devices.
- 29: R v Jones (Drugs) (Cardiff): Demonstrated to the court that the defendant's experience in growing cannabis was so limited that his attempt at hydroponic growth was likely to have resulted in the observed loss of the entire crop. The charge of intent to supply was rescinded.
- 28: R v White (Drugs) (Cardiff): Prosecution estimate of yield from 68 plants reduced from 6Kg to 2Kg due to spider mite infection.
- 27: R v Jackson (Toxicology) (Bristol): Gave evidence in relation to the effects of Clonazepam/Alcohol and especially a failure to take medication for three days and then increased doses just prior to the incident.
- 26: PP v Sjogren (Toxicology) (Sweden): Possible endogenous alcohol (ongoing).
- 25: McCluckie v Worrall (Toxicology) (Manchester): "Dram Shop" alcohol, road traffic accident, high quantum, civil case (ability of a passenger to detect whether the driver was unfit to drive).
Result: Our evidence prevailed over the opposing most experienced expert.
- 24: R v Furrage (DNA) (Plymouth): DNA traces were shown to have been likely to have been transferred to a gun by likely innocent means. Result: Defendant acquitted on 9 charges of firearms and drug trafficking.

IN COURT IN 2010

- 23: R v Furrage (DNA) (Plymouth): DNA traces were shown to have been likely to have been transferred to a gun by likely innocent means.
Result: Defendant acquitted on 9 charges of firearms and drug trafficking.

- 22: R v Cannella (Toxicology) (Brighton): Evidence was presented by report in a Cannabis intoxication, road traffic case. The defendant was demonstrated to be within the recommended levels and the charge of driving while intoxicated by cannabis was rescinded.
- 21: R v Kodua Maafo (Drugs) (Snaresbrook): The defendant was accused of possession of £33,000 worth of cannabis hash oil with intent to supply. Argued the possibility, that this was a contaminated sample of a traditional Ghanain hair product treatment. Result: Suspended sentence on appeal.
- 20: R v Illing (Toxicology) (Isleworth): The defendant experienced being responsible for an air rage incident after taking alcohol and a benzodiazepine. Toxicological report prepared. Result: Sentence reduced by two thirds.
- 19: R v Zahida Bhana (Toxicology) (Murder accusation): Investigation of the toxicological circumstances, of the death in a care home as a result of prescription of a Selective Serotonin Re-Uptake Inhibitor drug. Result: Opposing expert who had performed 6000 other cases retracted his report.

IN COURT IN 2009

- 18: R v Lusha: (Improvised Explosives/Ricin) (Preston): Demonstrated, through trials, that the improvised mixture claimed to have been intended to be used as an explosive was in fact inert.
- 17: R v Kanmi (Ricin/Explosives): Demonstrated that the militia video for the preparation of Ricin, claimed by the prosecution to be viable, was in reality flawed in principle.
- 16: R v Nasser: (Cannabis) (Birmingham): Demonstrated that the method for analysis of THC in cannabis flowering tops was flawed in design, and this was accepted by the prosecution.

IN COURT PREVIOUSLY

- 15: R v Kheradmandi (DNA) (Lewes): Defendant was accused of sex with a minor (Rape). Analysis of the situation revealed the possibility of an innocent explanation for the evidence. Result: Defendant acquitted.
- 14: R v Abdulla (Improvised Explosive Devices: London Glasgow Bombings): Analysis of the scenes and exhibits involving improvised car bomb type explosive devices utilising propane cylinders.
- 13: R v Ahmed Ali et al (Explosives) (Liquid Explosives/Transatlantic Airliner plot) (Woolwich): Report selected from those of four experts to defend all eight defendants. Only expert in 10 years of proceedings to locate literature describing research into the atmospheric pressure evaporation of hydrogen peroxide.
- 12: R v Gale (Firework Accident): Evidence appeared to show that a rocket fired by children on a beach was likely to have been responsible for the client's injuries and not a professional display.
- 11: R v S (DNA): Defendant was accused of rape of a minor. Analysis of a DNA mixed profile revealed insufficient evidence to identify the defendant as being the perpetrator. This was confirmed by bite mark analysis.
- 10: R v La (Industrial Cultivation of Cannabis) (Drugs): (Leicester): Case involved 17 rented houses in Leicester used to grow and possibly also breed 5000 cannabis plants.
- 9: R v Tang (Drugs) (Wolverhampton): 1Kg of best Cannabis Skunk (bud) demonstrated to have been likely to have been for the defendant's own personal use.
- 8: Williams v H (Pesticides): Investigated the deaths of horses grazing on a site, surrounded by arable fields.
- 7: R v Campbell Norris (Leeds Insulin Serial Killings) (Toxicology) (Newcastle): The case was stymied, as the presence of material which gave an immune reaction similar to that of Insulin type proteins was detected at very high levels in the blood of a victim.
This could have arisen as a result of a cross reaction with an innocent substance and no technique existed in order to confirm the presence of Insulin at trace levels in blood.
A new method was rapidly developed by us, as part of the case preparation, which detected and identified Insulin protein parent ion in a minute trace of blood remaining in the 4.5 year old vial.
This was a UK casework first and also a world first at this sensitivity.
- 6: Muragamoorthy (Toxicology) (Central Criminal Court): An immigrant couple was accused of crushing a 28 day old neonate to death. Investigation revealed the likelihood that an over zealous application of a

traditional Sri Lankan herbal/folk remedy (a camphor aerosol/vapour) was more likely to have been the cause. Result: Couple acquitted.

- 5: R v Haywood (Counterfeit Viagra) (Kingston on Thames): Inspected spectroscopic (13-C, 1-H and MS-MS) and chromatographic data.
- 4: R v Hirst (Toxicology) (Inner London): The defendant had committed an offence of racially aggravated abuse following a hospital surgical procedure that had involved treatment with benzodiazepines. A specific syndrome was identified for the particular benzodiazepine used and the defendant was acquitted.
- 3: R v Carter (CCTV): A training shoe was photographed and the laboratory photos compared with those obtained by CCTV. It was shown that the lighting used in the laboratory photographs had caused fluorescence induced patterns that were not visible on the CCTV. Repetition of the photography by the expert who had performed 490 cases showed this situation to be correct.
- 2: R v Bourgass (Toxins (Ricin)) (Wood Green Ricin Factory): Inspected the exhibits, and also laboratory analytical results, in the case of an illegal laboratory involved in the production of toxins such as Ricin.
- 1: R v Young (Drugs) (High Wycombe): A child was accused of possession of a tablet of amphetamine, and who claimed that the tablet was Ritalin supplied by a classmate who had been prescribed the legitimate pharmaceutical. Demonstrated that a simple spot test could not have differentiated between Ritalin and Amphetamine.

AMONG MANY OTHER CASE STUDIES PERFORMED FOR BOTH THE DEFENCE AND THE PROSECUTION AS DETAILED IN THE HIGH PROFILE CASE LISTINGS

TECHNIQUES DEVELOPED

- 1: The GC TEA method for the screening of highly contaminated real world samples for traces of explosives.
- 2: The quality control techniques used for the operation of Laboratories involved in the trace analysis of explosives and other forensic chemicals of interest (eg DNA) at the low nanogram level.
- 3: The silica capillary column gas chromatography method for detecting low nanogram traces of date rape benzodiazepine drugs in small (100 microlitre blood samples).
- 4: The prostaglandin method for investigating sexual offences.
- 5: The GC/TEA method for detecting traces of Organic Components of gunshot residue.
- 6: Vacuuming, headspace, and absorbent clean-up techniques for the trace analysis of explosives, gunshot residue, prostaglandins, and drugs in heavily contaminated samples.
- 7: First use of Nanobore HPLC Electrospray MS (Quadrupole)/MS(Time of Flight) to detect and identify nanogram traces of Insulin in a casework sample in the UK. (R v Campbell Norris).
- 8: The TLC technique for the trace analysis and differentiation of different types of Nitrocellulose.
- 9: Highly specific TLC method for the detection and identification of low nanogram levels of nitroaromatic explosives in highly contaminated samples using laser induced fluorescence.
- 10: A general HPLC method for the analysis of Acid/Neutral drugs using UV detection (Unpublished).
- 11: Selective Analysis of Sulphur compounds in food extracts (alcoholic drinks).
- 12: Analysis of water for traces of a pesticide widely used in Denmark (unpublished).
- 13: Manual of Improved improvised Incendiary and Explosive Devices.
- 14: Development of Improved syntheses of Barbiturates for use in the preparation of

Radioactively labelled compounds for use in the investigation of the permeability of the cell membrane.

- 15: A method for the low level trace analysis of thyroxine in small blood samples (unpublished)

CLIENTS

SOLICITORS IN THE UK, EIRE, EUROZONE AND WORLDWIDE

MAGISTRATES, CROWN, AND COUNTY COURTS IN THE UK AND EIRE

LOSS ADJUSTERS

INSURANCE FIRMS

PRIVATE AND LEGAL AID CASES WELCOME

OUR SERVICES INCLUDE:

- Laboratory reanalyses and trials.
 - Perceptive analysis of the most complex cases.
 - Report Preparation.
 - Court Reporting of Results.
 - Research into Novel Techniques of Forensic Chemical Trace Analysis.
-

CITATION INDEX

Dr J M F Douse Explosives

Dr J M F Douse Benzodiazepines

Dr J M F Douse Gunshot Residue

Dr J M F Douse Prostaglandins

Chapter 10 in Forensic Investigation of Explosions (Alexander Beverage: CRC Press, 1998).

ETHOS

THE SPIRIT THAT DRIVES US IS AS FOLLOWS:

- **OUR EXPERTISE ARISES FROM FORTY YEARS OF SCIENTIFIC EXPERIENCE AND 25 YEARS OF FORENSIC CASEWORK AND RESEARCH EXPERIENCE (MET POLICE FORENSIC SCIENCE LAB AND FORENSIC EXPLOSIVES LAB (LONDON))**
- **WE PROCESS 20 CASES PER YEAR INVOLVING FORENSIC CHEMISTRY**
- **THIS PERMITS US TO EXHAUSTIVELY INVESTIGATE THE CIRCUMSTANCES OF EACH CASE**
- **THESE CASES OFTEN ARE SOME OF THE MOST HIGH PROFILE**
- **THIS LEVEL OF CARE RESULTS OFTEN IN REVEALING DETAIL THAT HAS BEEN OVERLOOKED BY OTHER RESOURCES (EG. RESEARCH ON HYDROGEN PEROXIDE CONCENTRATION TECHNIQUES OVERLOOKED FOR 6 YEARS)**
- **ECONOMY WITH PUBLIC AND PRIVATE FUNDING IS MATCHED BY AN UNDERSTANDING OF OUR RESPONSIBILITY TO IMPARTIALLY SERVE THE COURT, CORONERS ENQUIRIES, OR INQUESTS**
- **OUR CROSS DISCIPLINARY EXPERTISE PROVIDES NEW INSIGHTS (FIRST TO NOTICE REPORTS IN EXPLOSIVE LITERATURE AND LINK THEM TO LIKELY GUNSHOT RESIDUE CONTAMINATION ISSUES)**
- **WE CARRY OUT CONTINUING FUNDAMENTAL FORENSIC RESEARCH USING OUR OWN FUNDS, IN ORDER TO PROVIDE NEW IMPROVED TECHNIQUES THAT CAN PROVIDE ANSWERS IN THE MOST COMPLICATED AND DEMANDING FORENSIC SCENARIOS. (CARRYING ON OUR ESTABLISHED PUBLICATION RECORD IN THIS FIELD)**
- **SOMETIMES THIS RESEARCH CAN OCCUR AS PART OF A TRIAL (EG R V CAMPBELL NORRIS ULTRA LOW LEVEL INSULIN DETECTION, A WORLD FIRST)**
- **WE ARE REGULARLY TASKED WHEN OTHER RESOURCES FAIL TO PROVIDE A CONCLUSION**
- **IN MANY CASES WE HAVE PIONEERED, DEVELOPED AND PUBLISHED THE TECHNIQUES AND QUALITY CONTROL PROCEDURES USED BY THE PROSECUTION TO OBTAIN THEIR EVIDENCE, AND AS A RESULT HAVE AN UNASSAILABLE PROVEN SUPERIOR EXPERTISE IN THESE MATTERS COMPARED TO OTHER "EXPERTS".**

CASEWORK EXAMPLES

HIGH PROFILE CASES:

- **R V PIGGIN (ASSOCIATES): PETROL BOMBS/IMPROVISED EXPLOSIVE DEVICES/RICIN (EXPLOSIVES)**
- **PAN AM 103 LOCKERBIE (EXPLOSIVES TRACE ANALYSIS)**
- **HYDE PARK BOMBING (EXPLOSIVES TRACE ANALYSIS)**
- **R V AHMED ALI et al: PLOT TO DESTROY WIDE BODIED PASSENGER AIRCRAFT USING LIQUID EXPLOSIVES (EXPLOSIVES)**
- **VENICE BIENNALE BOMBING (EXPLOSIVES)**
- **CONSERVATIVE PARTY CONFERENCE (EXPLOSIVES)**
- **R v BILAL ABDULLA (LONDON/GLASGOW BOMBINGS) (EXPLOSIVES)**
- **R v LUSHA (EXPLOSIVES)**

•R v KANMI	(RICIN/EXPLOSIVES)
•R v IBRAHIM	(HMTD EXPLOSIVE)
•LYBIAN EMBASSY SEIGE	(GUNSHOT RESIDUE)
•SHAKESPEARE / ELLIS DRIVEBY	(GUNSHOT RESIDUE)
•BMHM GANGLAND TRIALS (SIX)	(GUNSHOT RESIDUE)
•R v MURAGAMOORTHY CHILD MURDER (HIGH COURT)	(TOXICOLOGY)
•Dr DEATH: DATE RAPE	(TOXICOLOGY)
•LEEDS INSULIN SERIAL MURDERS	(TOXICOLOGY)
•R v HIRST MIDAZOLAM: AGGRESSION	(TOXICOLOGY)
•R v MATHEW BAYLE	(TOXICOLOGY)
•R v CLIVE WOOD	(EFFECTS OF ALCOHOL)
•WOOD GREEN RICIN FACTORY	(RICIN + ASSORTED TOXINS)
•DPP v SHARON COLLINS	(RICIN)
•R v LEWINGTON	(INCENDIARIES)
•R v BILAL ABDULLA (LONDON GLASGOW BOMBINGS)	(LPG/INCENDIARIES)
•CYPRUS POISON GAS CASE	(CHEMICAL WMD)
•R v LA LEICESTER CANNABIS FACTORIES (17 HOUSES)	(DRUGS)
•R v TANG 1 Kg CANNABIS BUD FOR PERSONAL USE	(DRUGS)
•R v HAYWOOD (FAKE VIAGRA PRODUCTION)	(DRUGS CHEMISTRY)
•R v SAKHI (LIMITATIONS OF DNA MIXTURE INTERPRETATION)	(DNA)

OTHER NOTABLE CASES:

•MCLUCKIE v WORRALL	(DRAM SHOP LAW)
•PP v SJOGREN	(POSSIBLE ENDOGENOUS ALCOHOL)
•R v JONES	(HYDROPONIC CANNABIS CULTIVATION SKILL)
•R v CANNELLA	(CANNABIS INTOXICATION DRIVING)
•ZAHIDA BHANA	(POSSIBLE PHARMACOGENETICS)
•R v KODUA MAAFO	(HASH OIL)
•R v FURMAGE	(DNA)
•R v KHERADMANDI	(DNA)
•SINGH v MANCHESTER ROYAL INFIRMARY	(MURDER ACCUSATION)
•R v NASSER	(ACCURACY OF THC ANALYSIS: CANNABIS)
•R v LUSHA	(VIABILITY OF IMPROVISED EXPLOSIVE MIXTURE)
•WILLIAMS v HOULBROOKE	(PESTICIDES)

NOTABLE NOVEL CHALLENGES DEVELOPED

- 1: **GUNSHOT RESIDUE:** FIRST EXPERT TO RECOGNISE AND REPORT IN COURT POLICE STATION/TRANSPORT GSR CONTAMINATION.
- 2: **DNA:** LIMITATIONS OF INTERPRETATION OF DNA MIXTURES (R v S) (2008).
- 3: FIRST UK CASEWORK ANALYSIS OF INSULIN IN A VANISHINGLY SMALL 4.5 YEAR OLD PLASMA TRACE BY NANOBORE LC QTOF /MS/MS. (R v CAMPBELL-NORRIS).
- 4: RECOGNITION OF PROBLEMS WITH THE METHOD GENERALLY USED FOR THE QUANTITATION OF THC IN CANNABIS. (R v NASSER) (2009)

SERVICE

As an Independent Provider of Forensic Services we have time to examine each case thoroughly and in depth, and to pursue exhaustively the possibility of innocent explanations for observed evidence.

We are frequently instructed when other resources have failed to identify a challenge

We continue to lead pioneering innovation in forensic trace analysis techniques, an example being the first use of Nanobore HPLC/MS/MS to detect Insulin, in an invisible plasma residue, in the Leeds Insulin Murders (R v Campbell Norris) in 2007. In this work we achieved a sensitivity for Insulin 1000 times lower than previously achieved.

Our report was selected in place of those of three other experts, in the case of R v Ahmed Ali, (Plot to destroy passenger aircraft on the trans Atlantic route using liquid explosives) for the defence of all 8 defendants.

We have recently assisted the Defence with the DPP v Sharon Collins Ricin investigation, and the London/Glasgow car bombings among many other cases under instruction.

All legal aid and private work is welcome.

SOLICITOR/LAWYER COMMENT

TOXICOLOGY

"I thought you should know that C was acquitted by the unanimous verdict of section 18 GBH with intent! They were deliberating for 1 hour and 20 minutes (including the lunch adjournment). I have no doubt that this was largely due to your excellent efforts on his behalf without which I feel certain that he would have been convicted. Thank you for all your help which was above and beyond the call of duty! I feel certain that we will meet again in the future and I will not hesitate in recommending your services to anyone who needs an expert in your field".

2012: Comment by a defendant in relation to a case of seized chemicals and apparatus, implicated in a possible attempt to manufacture Crystal Meth: (the report was:) "Brilliant!".

22/06/12: Explosives case at the Central Criminal Court:

"I thought that you would like to know that E was acquitted today. He asked me to pass on his thanks to you for all your hard work. Just to let you know H was found NOT GUILTY. Many thanks for all your kind assistance which greatly helped getting this great result."

11/3/2012: Comment by a barrister in an explosive case in regard of instruction of a suitable expert: "It is unlikely that the prosecution will be able to instruct someone more distinguished."

11/2/2012: A case of possession of amphetamine was discontinued and the defendant acquitted due to control blank analytical solvent analyses having not been used between GCMS analyses of case samples.

9/2/2012: In a case of rape involving alcohol and diazepam, following the experts conference at Court the charge was dropped and the defendant acquitted.

"I write to thank you for the valued assistance that you gave in this case and I feel sure that your tenacity and thoroughness enabled Counsel to put forward submissions in relation to the DNA evidence which most certainly assisted our client. I was very impressed with the way you carried out your investigations on the DNA evidence and cannot thank you enough. If I should need any expert reports in regards to DNA evidence in the future, I will certainly have no hesitation in contacting you."

32. May 2013: A case of seized chemicals (explosives): "He (the client) was extremely pleased with the result, and asked me to pass on his thanks to you for your assistance".

31. COMMENT FROM A PRIVATE CLIENT (INTERNATIONAL EUROZONE) (April 2013)

Thank you again for the fantastic report!

30: CASE INVOLVING TRACES OF EXPLOSIVES ON A RUCKSACK RECENTLY TAKEN TO PAKISTAN (Instruction received Good Friday Lunchtime, Full report delivered by Easter Tuesday 0900)

"Thank you very much for your speedy work on this!"

29: CASE INVOLVING COCAINE/TRAMADOL/ALCOHOL RTA (Defendant acquitted) (April 2013)

"Thank you once again for your assistance and efficiency in this matter."

28: Comments from a barrister in a DNA case involving drugs arms and ammunition (21/03/13): "The DNA report is very good...."

26: From a London Barrister in a case involving the requirement for the preparation of an urgent complex DNA report (26/11/12):

"Thank you. I appreciate your getting this to me so quickly".

25: Prosecution expert (Met Police Evidence Recovery Unit) written observations and assessment of the Defence Expert's skills carrying out an examination of multiple exhibits in a DNA clean room (November 2012):

"All relevant laboratory procedures and precautions followed."

24: Solicitors Comment in a case involving burglary (touch DNA) (Acquitted) (Bristol Youth) (October 2012)

"May I take this opportunity to thank you for all your endeavours in this case."

23: Firm of Swansea Solicitors following provision of reports in a number of cases:

"We thank you again for your continued assistance to this firm and look forward to instructing you again in the near future."

22: Comment of the Guildford Hospital UK Insulin Analysis Expert upon witnessing the first detection of a trace of Insulin in a vanishingly small 4.5 year old blood sample by UHPLC Q-TOF MS-MS, in the case of the Leeds Insulin Serial Killer: "That was good science!".

21: Case involving accusation of the intent to manufacture crystal methamphetamine (acquitted): "Thank you very much for all your help in this case."

20: Case involving Legal Highs (2012): "Your credentials speak for themselves".

19. "I thought you should know that C was acquitted by the unanimous verdict of section 18 GBH with intent! They were deliberating for 1 hour and 20 minutes (including the lunch adjournment). I have no doubt that this was largely due to your excellent efforts on his behalf without which I feel certain that he would have been convicted. Thank you for all your help which was above and beyond the call of duty! I feel certain that we will meet again in the future and I will not hesitate in recommending your services to anyone who needs an expert in your field".

18. "Yes, that's perfect thank you. Exactly what we were looking for!" (Air Rage Urgent report Alcohol/Valium 3 days notice).

17. Case involving saliva DNA (Robbery):

"The client was acquitted this afternoon when the prosecution withdrew the allegation. This was in no small part due to your excellent report that was very well written."

16. Explosives case at the Central Criminal Court: 22/06/12:

"I thought that you would like to know that E was acquitted today. He asked me to pass on his thanks to you for all your hard work.

Just to let you know H was found NOT GUILTY.

Many thanks for all your kind assistance which greatly helped getting this great result."

15. 11/3/2012: Comment by a barrister in an explosive case in regard of instruction of a suitable expert: "It is unlikely that the prosecution will be able to instruct someone more distinguished."

14. 27/1/12 Comments by the Judge as a result of our report, in mitigation, in a case involving ricin and explosive manuals: " I accept that all of this material is available on the internet and can be brought from retailers such as Amazon and I accept that some of it is out of date."

13. 17/1/12

Comment by a solicitor in a case where a charge at Taunton Crown Court of heroin possession with intent to supply,

was reduced to that of personal possession for the defendant's own use: "Thank you for your report. It was extremely helpful."

12. Comment by a barrister at Taunton Crown Court in a case of rape of a minor (DNA):
"You are so perceptive!"

11. 28/11/11: Comment by Counsel at the end of proceedings in a case involving instruction manuals concerning explosives and toxins (Ricin):
(Instructed Friday, attended Manchester Crown Court Monday) " I am so glad that you were able to come!"

10. 22/11/11: Comment by Manchester solicitor upon prompt, urgent provision of quote and explosive and toxin (Ricin) CV's in terrorist case: "Excellent!".

9. 17/11/11: "I thank you again for the valuable report you prepared, which by the judge's admission carried a great deal of weight".

8. 10/11/11.....I can confirm receipt of your report and am grateful for the timely manner in which you have prepared the same, given the recent difficulties...

The report does go some way into undermining the Crown's stance regarding the DNA on the duvet and no doubt will prove useful at the trial.

I thank you for your time and effort and look forward to instructing you in the future".

7. 27/10/11 Outcome of the case:

Defendant was completely acquitted from a charge of aggravated drunken driving.

This case is believed to be a World First, where the defence was primarily that alcohol detected was likely to have arisen as a result of endogenous production by fermentation in the intestinal system of the defendant. (His intestinal system having suffered significant permanent physiological damage as a result of a previous severe infection.)

6. "In a case involving gunshot residue at the Central Criminal Court, the prosecution barrister recommended that Dr Douse should be thanked by the Judge for bringing to the Court's attention the recent explosives publications involving the routine screening of public places for traces of explosives, which indicated that police transports and premises were likely to be contaminated with gunshot residue as a result of the presence of police and seized firearms and other contaminated exhibits. This led to the acquittal of the defendant in this case."

5. 6/10/2011: COMMENT FROM A PRIVATE INTERNATIONAL CLIENT (represented through a local solicitor (Eurozone))
Before outcome of the trial was known:

"Very nice to meet you in person....." "Because to me you are a rare blessing, someone a bit like my grandfather, who puts quality and pride in his work far above money."

4. "Dr Douse is the kind of expert witness you would wish for, if you, or a beloved relative is in trouble. Suddenly I found myself distant from people that would charge me for every second of their precious time. And in dialogue with an interested, well established, yet curious person. That would not stop until there was some order in the chaos and disbelief, that occurred after being accused of what could not be true. When even I got tired of myself for sending so many e-mail, he assured me that he was not, and that every detail was important. That seems to be the way he gets results, that is by seriously contemplating details, that may not seem important, or even worth mentioning, to a person uneducated in Dr Douses field of knowledge. If there is anything in the scientific literature that may support your claim, it seemed he would find it. And if that was'nt certain he did not hesitate to arrange individual experiments of his own, being a progressive established scientist in his own right. Yet he took my own ideas and investigations seriously, respectfully, and generously admitted when I had a point. Even though some of them must have seemed stupid, in the eyes of a highly educated person, in his field. That was the way I experienced a steady flow of progression, that resulted in a well written, comprehensive report, finished off by an impressive list of Dr Douse's previous accomplishments, education, and research, in such a manner that it would be hard to have any doubts left about his qualifications to write such a report. He offered to do a briefing with my solicitor, that had problems understanding all aspects of the complex field of science that it was all about, and he even lighted up the room doing it, with a sense of humour. He also did a well prepared appearance in court, properly dressed, and gave a professional impression. All that is from what I can imagine all you could ask for. But on top of that it was really pleasant to spend some time with him, picking him up from the airport. He offered to tie my tie (dressing casually as a modern IT expert, I had forgotten the procedure), and insisted to pay for dinner after the big day in court was over. Like a friend on a rainy day. Thank God I am still distant from those that would charge me for every second of their precious time, 'cause who could afford to pay for all that time, that it actually took?"

3. 23/9/2011: DRUGS CRYSTAL METH LAB "I am delighted to be able to report that Mr X was granted bail at the Crown Court.. based to a large extent on your report.....I am hopeful that they will agree that they do not have a case and they offer no evidence..."

2. 1/8/2011 Bristol Solicitor comment relating to a Murder Trial in 2011 (where both written and oral evidence was given), when requested, in writing, to provide a reference to the UK Expert Witness Guide (JS Publications): "It would be a pleasure!"

1. 2001 Lockerbie Judgment (7) (30/01/2001): "...there was also the evidence from Dr Douse who has specialised for many years in the trace analysis of drugs and explosives.... He pioneered the use of capillary gas chromatography, which is now a well recognised procedure."

TOXICOLOGY

"Yes, that's perfect thank you. Exactly what we were looking for!" (Air Rage Urgent report Alcohol/Valium 3 days notice).

DNA

Case involving saliva DNA (Robbery):

"The client was acquitted this afternoon when the prosecution withdrew the allegation. This was in no small part due to your excellent report that was very well written."

I write to thank you for the valued assistance that you gave in this case and I feel sure that your tenacity and thoroughness enabled Counsel to put forward submissions in relation to the DNA evidence which most certainly assisted our client.

I was very impressed with the way you carried out your investigations on the DNA evidence and cannot thank you enough.

If I should need any expert reports in regards to DNA evidence in the future, I will certainly have no hesitation in contacting you.

NOTABLE CASE EXAMPLES

1: Raising a full DNA profile from a pair of underpants 6.5 years old, and where the prosecution had removed the stains, by cutting, to allow them to achieve maximum sensitivity of analysis (R v Wilson).

2: Detection of Insulin traces and identification of Insulin type by Nanobore Quad/QTOF LC/MS/MS in a vanishingly small, 4.5 year old plasma trace remaining after the Prosecution had performed their analyses (First casework use in UK, and 1000 times as sensitive as any other method so far reported).

3: GSR, where we were the first, at the Central Criminal Court, to bring to the Court's attention that Police transports and Premises had been shown to be likely to be contaminated by Gunshot Residue. (This was noticed as a result of our multidisciplinary expertise in an unrelated survey of explosives contamination in public places).

4: The RvS case of alleged rape (acquitted) and others, where the limitations of the degree to which the interpretation of the DNA analysis of mixed profiles could be achieved, were demonstrated.

5: The R v Ahmed Ali et al trial of the alleged attempt to destroy wide bodied passenger jets through the use of liquid explosives, where out of a total of four experts our report was chosen for the defence of the 8 accused. (Also the only expert in ten years of trials to locate research into production of key ingredient).

6: R v Carter: where the CCTV images of a pair of trainers was analysed, and the prosecution found to have inadvertently utilised varying degrees of Ultra Violet Light as a result of different illumination processes during the process of photography. This had the effect of raising different patterns from fluorescent components on the surface of the trainer, and which was claimed to indicate that the seized item was different from that observed. Repeated photography at the scene confirmed this to be UNTRUE.

7: R v Young: Where a presumptive colouration test was shown to be capable of giving results for both Ritalin and Amphetamine.

8: R v Tang: The demonstration that one Kilogram of Cannabis Bud could be used by an individual with a high rate of consumption by smoking and cooking, for his own personal use.

9: It should be noted that in many cases (eg Explosives, Gunshot Residue, and Toxicology etc) the techniques used for analysis were developed and published by ourselves, which assists in establishing the pre-eminent expertise in any challenges (eg Lockerbie).

RECENT AND ONGOING CASE DETAILS:

MANY HUNDREDS OF FURTHER CASES HAVE BEEN ANALYSED FOR THE PROSECUTION, IN ADDITION TO THOSE LISTED, DURING 14 YEARS SERVICE AT THE MET POLICE FORENSIC LAB (LONDON) AND THE FORENSIC EXPLOSIVES LAB (FORT HALSTEAD)

SOME FURTHER INTERESTING PROSECUTION CASES

- 1: DEBRIS FROM A ONE TONNE ROADSIDE DEVICE (LEBANON).
- 2: HULL PLATE FROM AN AIRCRAFT DOWNED BY AN ANTI-AIRCRAFT MISSILE. (PROPELLANT TRACES (NG) DETECTED ON THE OUTSIDE ONLY) (SOUTH AFRICA).
- 3: ANALYSIS OF AIRCRAFT DEBRIS FOR TRACES OF EXPLOSIVES (UNKNOWN CAUSE OF LOSS) (NORWAY/SWEDEN).
- 4: ANALYSIS OF TRACES OF EXPLOSIVES ON THE SHATTERED ALUMINIUM ALLOY REMNANTS OF THE CARGO CONTAINER IN THE PAN AM 103 CASE (LOCKERBIE).

SOME FURTHER INTERESTING DEFENCE CASES

- 1: DETECTION AND IDENTIFICATION OF THE INSULIN TYPE LIKELY TO HAVE BEEN USED IN THE SERIAL KILLINGS OF ELDERLY LADIES IN THE LEEDS INSULIN SERIAL KILLINGS (A WORLD FIRST AT THIS LEVEL)
- 2: INVESTIGATION OF POSSIBLE ENDOGENOUS ALCOHOL PRODUCTION IN AN INDIVIDUAL WITH AN INTESTINAL SYSTEM DAMAGED BY SEVERE AMOEBIC DYSENTERY.

CASES

<u>NO</u>	<u>DEFENDANT</u>	<u>TYPE</u>	<u>DETAILS</u>	<u>DATE</u>
333:	R v Khan	DNA	Firearms	2018
332:	R v Sneddon	Explosives	Chemicals, apparatus	2018
331:	R v Jennings	Toxicology	Drugs Road Traffic	2018
330:	R v Cobley	DNA	Sexual Assault	2018
329:	R v Smith	Toxicology	Rape	2018
328:	R v Thomas	DNA	Firearm	2018
327:	R v Oyebamiji	Toxicology	Alcohol Cannabis NPS	2018
326:	R v Cort	DNA		2018
325:	R v Thind	Toxicology	Alcohol Road Traffic	2018

324:	R v Edwards	Toxicology	Cannabis Road Traffic	2018
323:	R v Richards	Toxicology	Alcohol Road Traffic Appeal	2018
322:	R v X	Toxicology	Thallium	2018
321:	R v Veysey	Toxicology	Urine	2018
320:	R v Pinnock	Explosives	Improvised device	2018
319:	R v Kayley	Drugs	Cocaine	2017
318:	Ascot	Pyrotechnics	Deceased Cache	2017
317:	R v Pennington	Firework	Arson	2017
316:	R v S	Alcohol	Rape	2017
315:	Byrne (Eire)	Sewer Gases	Hydrogen Sulphide	2017
314:	R v Cunningham	DNA/Firearms	Innocent Transfer	2017
313:	R v El Hassan	Toxicology	Ricin	2017
312:	R v Singh	Steroids	Induced Rage	2017
311:	R v Richards	Alcohol Spiking	Road traffic	2017
310:	R v Sheriff	Alcohol	Road Traffic	2017
309:	R v Douglass	DNA/Firearms	Innocent transfer	2017
308:	R v Neale	Alcohol	Rape	2017
307:	R v Creighton	Drugs	"Insane Joker" NPS	2017
306:	R v X	Alcohol	Child Care	2017
305:	R v Pearson	Synth Cannabinoids	Damage/Psychosis	2017
304:	X	Morphine	Airline Pilot	2017
303:	R v Thomas	DNA	Innocent Transfer	2017
302:	R v Alsyed	Explosive	TATP	2017
301:	R v Toors	Alcohol	Road Traffic Accident (RTA)	2017
300:	McGrath v Various	Cannabis	Road Traffic Accident (RTA)	2017
299:	R v El Hassan	Explosives	Improvised Devices Instructions	2017
298:	R v El Hassan	Explosives	Shaped Charges Instructions	2017
297:	R v Grewal	RTA/Alcohol	Toxicology	2017
296:	R v Smith	Home Made Fireworks	Explosives	2017
295:	R v G	Childcare	Heroin/Diazepam	2017
294:	R v Singh	RTA/Alcohol	Toxicology	2017

293:	R v Batten	RTA/Cocaine	Toxicology	2017
292:	SV v X	Drug Test	Cannabis trace	2016
291:	HSE v Y	Pyrotechnics	Military Rocket Motor Ignition	2016
290:	R v Legister	Drugs	Medical Uses Cannabis	2016
289:	R v Brown	Drugs	Cannabis/Crack (Texts)	2016
288:	R v Neave	DNA	Assault (Trace evidence)	2016
287:	R v Shennan	Drugs	Legal highs (Chemicals)	2016
286:	R v Khan	Explosives	Inspire Magazine	2016
285:	R v Perkins	Cocaine/RTA	Manslaughter/RTA	2016
284:	R v Van Berg	Alcohol	RTA	2016
283:	R v Abdullah	Military	Syria	2016
282:	R v Taj	Military	Inspire Magazine	2015
281:	R v Taj	Explosives	Inspire Magazine	2015
280:	R v Biddle	Cannabis	Yield/value/quality	2015
279:	R v Hajila	Assault	Olanzapine/alcohol	2016
278:	R v Cooper	Toxicology/Rape	MCAT	2016
277:	R v James	Alcohol/Driving	RTA	2015
276:	R v Cain	Toxicology (Rape)	Alcohol/SSRI's	2015
275:	R v Harris	Cannabis	Grow yields and Medical Usage	2015
274:	R v Harris	Explosives	Pyro, Manuals, Downloads	2015
273:	R v Coates	Counterfeits	Nicotine Cigarettes	2015
272:	R v Downes	Explosives	Pipe bombs/manuals	2015
271:	R v Gazeley	Euthanasia	Tox/Morphine	2016
270:	R v McBride	Murder	Cocaine/THC/Alcohol	2016
269:	R v Barrows	Drugs	Possession	2015
268:	R v Makame	Alcohol	RTA	2014
267:	Stuart v W Mercia	Cannabis Volatiles	Toxicology	2016
266:	R v Mcleod	Drugs	Cannabis	2014
265:	R v Ruel	Toxicology	Assault	2014
264:	R v Tiwana	Toxicology	Sudden Death	2014
263:	R v McKimm	Rape	DNA	2016

262:	R v Wilson	Drugs	THC Medical	2014
261:	R v Gray	Methedrone	RTA2014	
260:	R v Ghulam	Cannabis	Text Msges	2014
259:	R v Rowe	Cannabis	Medical	2014
258:	R v Souici	RTA	Methedrone	2014
257:	R v Murtza	Cannabis	Personal use	2014
256:	R v Rowe	Cannabis	Medical use	2014
255:	R v Gray	Polymer	Roofing Sealant	2014
254:	R v Ghat	Toxicology	Rape	2014
253:	R v Steele	Alcohol/GERD	RTA	2014
252:	R v Sullivan	Cannabis/Cultivation	Tenant	2014
251:	R v X	Explosives	LPG Device	2014
250:	M-5 Crash Enquiry	Smoke	Super-dense fogs	2014
249:	R v Van de Merwe	Cannabis	Usage	2014
248:	R v Zaman	Alcohol	RTA	2014
247:	R v Rattray	DNA	Drugs	2014
246:	R v Greenstreet	Toxicology (RTA)	Prescription Meds	2014
245:	R v Wasim	Cannabis	Consumption	2014
244:	R v Gill	Toxicology	Murder	2013
243:	R v Jackson	Alcohol	Spiked Drinks	2013
242:	R v Finlay	DNA	GBH	2013
241:	R v Coloquhon	Alcohol	RTA	2013
240:	R v Howell	THC	RTA	2013
239:	R v Peach	DNA	Contact Traces	2013
238:	R v Phillips	DNA	Drugs	2013
237:	R v Barker	Cannabis	Cultivation	2013
236:	R v X and Y	Ricin	Projectiles	2013
235:	R v Quamar	CS	Assault	2013
234:	R v X and Y	Explosives	Petrol/Pipe	2013
233:	R v Thomas	DNA	Murder	2013
232:	R v Wilton	Alcohol	RTA	2013

231:	R v Brazier Jones	Champix	RTA	2013
230:	R v Sharif	Cannabis	Cult/high value	2013
229:	R v Harden	Taser	WPN	2013
228:	R v Lyons	Tramadol	RTA	2013
227:	R v Mahmood	Explosives	Traces	2013
226:	R v Licenyi	Alcohol	RTA2013	
225:	R v Briody	Chemicals	Explosives	2013
224:	R v Finnikin	Cannabis	Cultivation	2013
223:	R v Phillips	DNA	Robbery	2013
222:	R v Renton	DNA	Drugs/Firearms	2013
221:	R v Babamir	DNA	Rape	2013
218:	R v Baqa	Explosives	Downloads	2012
217:	R v Brealy	Toxicology	Alcohol/Opiates	2012
216:	R v McKenzie	DNA	Drugs/Ammo	2012
215:	R v Nelson	DNA	Touch DNA/Wrap	2012
214:	R v Riaz	DNA	High Value Drugs	2012
213:	R v Riaz	Drugs	H,C,E,BZP	2012
212:	R v Pearce	Alcohol	RTA	2012
211:	R v Williams	Alcohol	RTA	2012
210:	R v Hughes	Alcohol	RTA	2012
209:	R v McCarroll	DNA	Robbery	2012
208:	R v O'Dwyer	Drugs	Legal Highs	2012
207:	R v Potter	Pharmaceuticals	RTA	2012
206:	R v Warren	Alcohol	RTA	2012
205:	R v Potter	Alcohol	RTA	2012
204:	R v Habib	DNA	Rape	2012
203:	R v Naseer	Explosives	Transcripts	2012
202:	R v Moore	DNA	DNA	2012
201:	R v Nelson	Toxicology	Crack	2012
200:	R v Hussain	Drugs	Heroin	2012
199:	R v Langdon	Alcohol	RTA	2012

198:	R v Pearman	Alcohol	RTA	2012
197:	R v Jones	Drugs/RTA	Diaz/THC	2012
196:	R v Wisdom	Alcohol	RTA	2012
195:	R v Jones	Alcohol/Valium	Rape	2012
194:	R v Ertakan	Explosives/Inspire Mag	Manual	2012
193:	R v Mozid	Alcohol	RTA	2012
192:	R v Saleh	DNA	Robbery	2012
191:	R v Smith	Dihydrocodeine	Death of neonate	2012
190:	R v Slaughter	DNA	Touch DNA	2012
189:	R v Priday	Alcohol	RTA	2012
188:	R v Thomas	Amphetamine	Syringes	2012
187:	R v Pascal Foster	Alcohol	GBH	2012
186:	R v Ahmed	DNA	Robbery	2012
185:	R v Evans	Alcohol	RTA	2012
184:	R v Grinter	Alcohol	RTA	2011
183:	R v Kausar	Explosives& Ricin	Ricin	2011
182:	Oryem	Alcohol	RTA	2011
181:	R v Sampson	Drug seizure	Cannabis/Heroin	2011
180:	R v Temple	Opiates/Urine	Parole	2011
179:	R v Thomas	Alcohol	RTA	2011
178:	Maxsys v Timms/Singh	Magnetic Fuel Pretreatment	High Quantum	2011
177:	R v Ejeta	Drugs	Crystal Meth lab	2011
176:	R v DeLouville	Alcohol	RTA	2011
175:	Bannister	DNA	Theft	2011
174:	Jones	CannabisHydroponics	Cultivation Skills	2011
173:	Jackson	Clonazepam/Alcohol	Murder	2011
172:	Lear	Petrol Bombs	Accelerants	2011
171:	PP v Sjogren	Alcohol	RTA	2011
170:	Chohan	Cannabis	Possession	2011
169:	Brightman	Alcohol	Laced Drinks	2011
168:	Crawford	Gunshot Residue	Robbery	2011

195:	R v Jones	Alcohol/Valium	Rape	2012
194:	R v Ertakan	Explosives	Manual	2012
193:	R v Mozid	Alcohol	RTA	2012
192:	R v Saleh	DNA	Robbery	2012
191:	R v Smith	Dihydrocodeine	Death of neonate	2012
190:	R v Slaughter	DNA	Touch DNA	2012
189:	R v Priday	Alcohol	RTA	2012
188:	R v Thomas	Amphetamine	Syringes	2012
187:	R v Foster	Alcohol	GBH	2012
186:	R v Ahmed	DNA	-	2012
185:	R v Evans	Alcohol	RTA	2012
184:	R v Grinter	Alcohol	RTA	2011
183:	R v Kausar	Explosives/Toxins	Ricin	2011
182:	Oryem	Alcohol	RTA	2011
181:	R v Sampson	Drug seizure	Cannabis/Heroin	2011
180:	R v Temple	Opiates/Urine	Parole	2011
179:	R v Thomas	Alcohol	RTA	2011
178:	Maxsys v Timms/Singh	Magnetic Fuel Pretreatment	High Quantum	2011
177:	R v Ejeta	Drugs	Crystal Meth lab	2011
176:	R v DeLouville	Alcohol	RTA	2011
175:	Bannister	DNA	Theft	2011
174:	Jones	Cannabis Hydroponics	Cultivation Skills	2011
173:	Jackson	Clonazepam/Alcohol	Murder	2011
172:	Lear	Petrol Bombs	Accelerants	2011
171:	PP v Sjogren	Alcohol	RTA	2011
170:	Chohan	Cannabis	Possession	2011
169:	Brightman	Alcohol	Laced Drinks	2011
168:	Crawford	Gunshot Residue	Robbery	2011
167:	Hussein	Cannabis	Possession	2010
166:	McCluckie v Worrall	Injury Claim	Alcohol	2010
165:	PP v Aris	Methamphetamine	Usage	2010

164:	Chouhan	Alcohol	RTA	2010
163:	Ghandi	Alcohol	RTA	2010
162:	White	Cannabis	Cultivation	2010
161:	Perumal	RTA	Alcohol	2010
160:	Cogger	Cannabis	Cultivation	2010
159:	McLuckie	RTA	Alcohol	2010
158:	Cannella	RTA	Cannabis	2010
157:	Maafo	Drugs	Cannabis Oil	2010
156:	Holder	DNA	Wounding	2010
155:	Illing	Alcohol/Valium	Air rage	2010
154:	Zahida Bhana	Prozac	Murder	2010
153:	Skipp	CS	Assault	2009
152:	Lusha	Toxins (Ricin)	Toxicology	2009
151:	Mehdi	Alcohol	RTA	2009
150:	Nasser	Drugs	Cannabis	2009
149:	Nasser	DNA	Cannabis	2009
148:	Kheradmandi	DNA	Rape	2009
147:	Burbeck	DNA	Rape	2009
146:	Docherty	DNA	Rape	2009
145:	Johnson	DNA	Assault	2009
144:	Mohammed Adnan	DNA	Firearms	2009
143:	Furmage	DNA	Firearms/Drugs	2009
142:	Ali II	Explosives	Hydrogen Peroxide	2009
141:	O'Donnell	Cannabis	Drugs	2009
140:	Ford	Ketamine/Alcohol	Theft	2009
139:	Alfidi	Diphenhydramine	Rape	2009
138:	Crosby	Explosives	Explosives	2009
137:	Rehman	Explosives	Explosives	2009
136:	Watson	GSR	Murder	2009
135:	Anderson	Alcohol	RTA	2009
134:	Toole	Crack	Accidental Death	2009

133:	Gale	Firework	Personal Injury	2009
132:	Hunt	Cannabis	Cultivation	2009
131:	Cassell	Alcohol	RTA	2009
130:	Singh	Cefuroxime	Murder	2009
129:	Watson	DNA	Murder	2009
128:	Lusha	Explosives	Explosives	2009
127:	Lewington	Incendiaries	Explosives	2009
126:	Kanmi	Explosives	Explosives	2009
125:	Kanmi	Toxins	Ricin	2009
124:	Ibrahim	HMTD	Explosives	2009
123:	Collins	Ricin	Murder	2008
122:	MV Danielle	Drugs	Cannabis	2008
121:	Nasser	Drugs	Cannabis	2008
120:	Abdulla	Explosives	Vehicle IIDS	2008
119:	Allen	Drugs	Cannabis	2008
118:	Roberts v Allen	Alcohol	Drink Drive	2008
117:	Leadette	DNA	Drugs seizure	2008
116:	Williams	DNA	DNA	2008
115:	Biddulph	GSR	Attempted Murder	2008
114:	Ijebuode	Drugs/CS	Assault	2008
113:	Doyle	Drugs	Drugs Seizure	2008
112:	Carbone	Alcohol	Drink Driving	2008
111:	Bhanga	Alcohol	Drink Driving	2008
110:	Russell	Crack	Murder	2008
109:	Mitha	Alcohol	Drink Driving	2008
108:	Asgar	Alcohol	Drink Driving	2008
107:	Chapman	Diamorphine	Drugs Seizure	2008
106:	Mistry	Alcohol	Drink Driving	2008
105:	Bayle	Amphetamine	Murder	2008
104:	De Freitas	DNA	Armed Robbery	2008
103:	Bryson	Explosives	Pipe Bombs	2008

102:	Tabbakh	Explosives	Device	2008
101:	Ahmed Ali	Liquid Explosives	Mass Terrorist	2008
100:	Davies	DNA	Armed Robbery	2008
99:	Ensor	DNA	Armed Robbery	2008
98:	Ensor	GSR	Armed Robbery	2008
97:	Quereshi	Explosives	Manuals	2008
96:	R v S	DNA	Rape	2008
95:	Patel	DNA		2007
94:	La	Cannabis	Manufacture (5000)	2007
93:	Ward	Alcohol	Drink Driving	2007
92:	Henderson	DNA	Robbery	2007
91:	Watson	DNA	DNA	2007
90:	Harvey	Alcohol	Drink Driving	2007
89:	Fletcher II	DNA	Armed Robbery	2007
88:	W v H	Pesticides	Livestock Deaths	2007
87:	Jeffers	DNA	Armed Robbery	2007
86:	O'Neill	DNA	DNA	2007
85:	Campbell Norris	Insulin	Serial Murder	2007
84:	Seabury	DNA	Armed Robbery	2007
83:	Muragamoorthy II	Toxicology	Child Death	2007
82:	Cousins	Drugs	Banknotes	2007
81:	Faquih	Explosives	Manuals	2007
80:	Irfan	Explosives	Manuals	2007
79:	Reid	DNA	Rape	2007
78:	Johnson	DNA	NA	2007
77:	Ferrari	Alcohol	Drink Driving	2006
76:	Hunter	Alcohol	Drink Driving	2006
75:	Jeffers	DNA	Armed Robbery	2006
74:	Patterson	Drugs / Pricing / Usage	Drugs	2006
73:	Saddique	DNA	Rape	2006
72:	Sayed	DNA	Paternity	2006

71:	Nuth	DNA	Assault	2006
70:	Richards	Cannabis	Drugs	2006
69:	Robinson	Drugs	Banknotes	2006
68:	Cousins	Banknote	Drugs	2006
67:	Singh	CS	Cannabis Usage	2006
66:	Seabury	DNA	Assault	2006
65:	Muragamoorthy	Camphor	Murder	2006
64:	Haywood	Viagra	Counterfeits	2006
63:	Bell	DNA	DNA	2006
62:	Wood	Alcohol	Murder	2006
61:	Jones	Gunshot	Murder	2006
60:	Tang	1 Kg Cannabis	Personal Use	2006
59:	Holbrook	Pesticides	Claim	2006
58:	Gillespie	Alcohol	Attmepted Murder	2006
57:	Whittaker	Gunshot Residue	NG	2006
56:	Fletcher	DNA / Dyes	Robbery	2006
55:	Aftab	Cannabis	Drugs	2006
54:	Bell	DNA	Drugs Banknotes	2006
53:	Tyler	GSR	GSR	2006
52:	Parchment	GSR	GSR	2005
51:	Coe	Heroin	Murder	2005
50:	Porter	Ecstasy	Cannabis	2005
49:	Parish	Alcohol	Drink driving	2005
48:	Husnu	Heroin Importation	Drugs	2005
47:	King	Alcohol / Cannabis	Toxicology	2005
46:	Blake	GSR / DNA	GSR	2005
45:	Alobaydi	DNA	Rape	2005
44:	Alansari	DNA	Rape	2005
43:	Hirst	Midazolam	Aggression	2005
42:	Munk	Diphenhydramine	Toxicology	2005
41:	Taylor	Alcohol	Murder	2005

40:	Moran	Amphetamine	Drugs	2005
39:	Rahman	DNA	DNA	2005
38:	Titley	DNA	DNA	2005
37:	Wilson	DNA	Rape	2005
36:	Harrison	Gunshot Residue	GSR	2005
35:	Eman	GSR / DNA	DNA	2005
34:	Heanley v LR	Toxicology	Claim	2006
33:	Carty	GSR	GSR	2005
32:	Carter	CCTV	CCTV	2005
31:	Thomas	Gunshot Residue	GSR	2005
30:	Campbell	Gunshot Residue	GSR	2005
29:	Parker	Imitation Firearm	Firearms	2005
28:	Swann	Date Rape Drugs	Rape	2005
27:	Holford	DNA	Rape	2005
26:	Laguda`	DNA / Tox	Rape	2005
25:	Davenport	Prozac / CS	Assault	2005
24:	Christofi	Alcohol / Driving	Drink Driving	2005
23:	Carroll	Cannabis /Benzos	Toxicology	2005
22:	Shaw	Alcohol	Drink Driving	2005
21:	Sabaratnay	Camphor	Murder	2005
20:	Bourgass	Ricin + Toxins	WMD	2005
19:	Freeman	Firearm effects	Assault	2004
18:	Khan	Security Dyes	Armed robbery	2004
17:	Al Gahbra	Explosives	Manuals	2004
16:	R v U (Southwark)	Explosives	Manuals	2004
15:	Khan N	Gunshot Residue	Armed Robbery	2004
14:	Khan H	Gunshot residue	GSR	2004
13:	Sawyers	Gunshot residue	GSR	2004
12:	Jones	Cannabis / Ecstasy	Drugs	2004
11:	Betts	Psilocybin	Drugs	2004
10:	Jethwa	Alcohol	Drink Driving	2004

9:	Garey	Alcohol	Drink Driving	2004
8:	Jarvis	Alcohol / DNA	Rape	2004
7:	Shah	Alcohol / DNA	Rape	2004
6:	Tongue	Alcohol	Drink Driving	2004
5:	White	DNA	DNA	2004
4:	Young	Ritalin	Drugs	2003
3:	Murphy	Crack	Drugs	2003
2:	Freestone	Ecstasy	Drugs	2003
1:	Mallon	Crack	Murder	2003

NOTABLE NOVEL FORENSIC ANALYTICAL TECHNIQUES DEVELOPED

- 1: The GC TEA method for the screening of highly contaminated real world samples for traces of explosives.
- 2: The quality control techniques used for the operation of Laboratories involved in the trace analysis of explosives and other forensic chemicals of interest (eg DNA) at the low nanogram level.
- 3: The silica capillary column gas chromatography method for detecting low nanogram traces of date rape benzodiazepine drugs in small (100 microlitre blood samples).
- 4: The prostaglandin method for investigating sexual offences.
- 5: The GC/TEA method for detecting traces of Organic Components of gunshot residue.
- 6: Vacuuming, headspace, and absorbent clean-up techniques for the trace analysis of explosives, gunshot residue, prostaglandins, and drugs in heavily contaminated samples.
- 7: First use of Nanobore HPLC Electrospray MS (Quadrupole)/MS(Time of Flight) to detect and identify nanogram traces of Insulin in a casework sample in the UK. (R v Campbell Norris).
- 8: The TLC technique for the trace analysis and differentiation of different types of Nitrocellulose.
- 9: Highly specific TLC method for the detection and identification of low nanogram levels of nitroaromatic explosives in highly contaminated samples using laser induced fluorescence.
- 10: A general HPLC method for the analysis of Acid/Neutral drugs using UV detection (Unpublished).
- 11: Selective Analysis of Sulphur compounds in food extracts (alcoholic drinks).
- 12: Analysis of water for traces of a pesticide widely used in Denmark (unpublished).
- 13: Manual of Improved improvised Incendiary and Explosive Devices.
- 14: Development of Improved syntheses of Barbiturates for use in the preparation of Radioactively labelled compounds for use in the investigation of the permeability of the cell membrane.
- 15: A method for the low level trace analysis of thyroxine in small blood samples (unpublished).

RESEARCH INTEREST AREAS

- 1: Attempted picogram detection of explosives by TLC.
- 2: Improved clean-up methods for the trace analysis of explosives in highly contaminated samples.
- 3: Improved absorbents for the clean up of highly contaminated samples prior to trace analysis of explosives.
- 4: Attempted detection of peroxide explosives in highly contaminated samples by chemiluminescent techniques.
- 5: Improved methods for the detection of latent fingerprints.
- 6: Improved sensitivity and selectivity of the Thermal Energy Analyser for the detection of traces of explosives in highly contaminated extracts.
- 7: Estimation of time since intercourse through detection of semen.
- 8: Improved methods for the detection of Gunshot Residues in the time period following discharge of a firearm.
- 9: Improved methods for the prior treatment and clean up of DNA in highly contaminated forensic residues.
- 10: Endogenous alcohol production.

HOT PRESS

NEW INSTRUCTIONS

DRUGS/RTA

ALCOHOL/RAPE

SYNTHETIC CANNABINOIDS RAPE

SPIKED DRINKS CRIMINAL DAMAGE

DNA RAPE

DNA ASSAULT

DNA MURDER

DNA FIREARMS

EXPLOSIVES TATP VIDEO

EXPLOSIVES: CHEMICALS/MANUALS/GLASSWARE

CANNABIS RTA INSURANCE CLAIM

TATP SYNTHESIS VIDEO (EXPLOSIVES)

DNA INNOCENT TRANSFER MECHANISMS (FIREARMS)

MORPHINE URINE POSITIVE (AIRLINE PILOT)

SYNTHETIC CANNABINOIDS SPIKED DRINK POLICE OFFICER (DAMAGE)

ALCOHOL (CHILD CARE PROCEEDINGS)

NEW PSYCHOACTIVE DRUGS (THIRD GENERATION SYNTHETIC CANNABINOIDS)

ALCOHOL (RAPE)

DNA INNOCENT TRANSFER MECHANISMS (FIREARMS)

ALCOHOL (ROAD TRAFFIC CASE)

ALCOHOL SPIKED DRINK (ROAD TRAFFIC CASE)

ANDROGENIC ANABOLIC STEROIDS (AGGRESSION)

RICIN

DNA INNOCENT TRANSFER MECHANISMS (FIREARMS)

HYDROGEN SULPHIDE SEWER GASES (NEUROLOGICAL/CARDIAC DAMAGE)

ALCOHOL ADULT ADH (RAPE)
FIREWORK (ARSON)
DECEASED ARMY OFFICER (LARGE TRAINING PYROTECHNIC CACHE)
DRUGS (TRACE OF COCAINE IN HANDBAG)
DNA INNOCENT TRANSFER MECHANISMS (FIREARM)
ALCOHOL ROAD TRAFFIC ACCIDENT CASE
INTERNET DOWNLOAD REGARDING EXPLOSIVE SHAPED CHARGE CONSTRUCTION
ALCOHOL ROAD TRAFFIC CASE
INTERNET DOWNLOAD REGARDING THE PREPARATION OF IMPROVISED EXPLOSIVE DEVICES
ALCOHOL ROAD TRAFFIC ACCIDENT CASE
CANNABIS ROAD TRAFFIC ACCIDENT CASE
HEROIN/DIAZEPAM/OPIATES CHILD CUSTODY CASE
COCAINE RTA
HOME MADE FIREWORKS
Alcohol/RTACUTTING AGENTS / ILLEGAL DRUG CHEMICAL SYNTHETIC REACTIONS
SPICE: MURDER
TAZER
MEPHEDRONE: RAPE
UNEXPLAINED CHILD DEATH (Scotland)
MANSLAUGHTER UNDER INFLUENCE OF SPICE
MURDER APPEAL AGAINST A 29 YEAR SENTENCE
PRIVATE DRUG TEST RESULT (MARINER) LOW LEVEL CANNABIS
ACCIDENTAL IGNITION OF MILITARY ROCKET MOTOR
CANNABIS MEDICAL USES
DNA (ASSAULT) (SIGNIFICANCE OF TRACES)
EXPLOSIVES (INSPIRE MAGAZINE)
LEGAL HIGHS (CHEMICALS)
CANNABIS/CRACK TEXTS
DNA ASSAULT
POLITICAL/MILITARY MANUAL
DRINK DRIVING RTA
DRUG DRIVING (COCAINE) (MANSLAUGHTER)
MILITARY TRAINING VIDEOS (SYRIA)
IED / MILITARY TRAINING VIDEOS (SYRIA)
HASH OIL
CANNABIS: CULTIVATION YIELD, VALUATION, GRADE
ROBBERY ASSAULT: OLANZAPINE/CARBAMAZEPINE/ ALCOHOL/THC
CONTAMINATION OF FUEL BY BIODIESEL
CITALOPRAM /ALCOHOL RAPE
ALCOHOL / DRIVING
PYROTECHNICS AND DEMOLITION MANUALS
CANNABIS YIELD
MEDICAL CANNABIS
ASSISTED DEATH / EUTHANASIA - MORPHINE
MURDER (ALCOHOL / TOXICOLOGY)
MURDER (COCAINE / ALCOHOL)
COUNTERFEIT NICOTINE CIGARETTES
CANNABIS / ASTHMA / WORKPLACE
EXPLOSIVES / PIPE BOMBS
ALCOHOL/RTA
CANNABIS VOLATILES TOXICOLOGY
DNA (RAPE OF MINOR)
TOXICOLOGY/ MURDER /CLASS A DRUGS
TOXICOLOGY (ASSAULT)
CANNABIS (TEXT MESSAGES)
TOXICOLOGY (ASSAULT)
DNA (RAPE)
METHEDRONE/RTA

CANNABIS MEDICAL
CANNABIS (PERSONAL)
CANNABIS (MEDICAL)
CHEMICAL POLYMER TREATMENT (ROOFING)
RTA (METHEDRONE)
ALCOHOL(RTA-GERD)
TOXICOLOGY (RAPE)
DNA (CLASS A DRUGS - FIREARMS - AMMUNITION)
CANNABIS CULTIVATION (LANDLORD/TENANT)
CANNABIS CULTIVATION
EXPLOSIVES (LPG DEVICES)
PRESCRIPTION DRUGS - DRIVING
ALCOHOL -SERIOUS RTA - REFUSAL TO PROVIDE
CANNABIS USAGE RATES
DNA ASSAULT

RECENT INSTRUCTIONS:

ANTIBIOTIC TOXICITY: UNEXPLAINED DEATH
EFFECTS OF A VALIUM ALCOHOL COMBINATION ON ABILITY TO GIVE CONSENT AND ABILITY OF DEFENDANT TO RECOGNISE ABILITY TO GIVE CONSENT IN ANOTHER (RAPE).
EFFECT OF CONSUMPTION OF AN EXTREME QUANTITY OF ALCOHOL ON POSSIBLE INTENT AND LIKELIHOOD AS THE CAUSE OF AN INCIDENT OF AGGRESSIVE BEHAVIOUR.

TOXICITY OF DIHYDROCODEINE IN A NEONATE.

TERRORIST CHARGES INVOLVING EXPLOSIVE MANUALS AND TOXIN MANUALS (RICIN)

IMPROVISED EXPLOSIVE MANUALS AND TOXIN (RICIN) RECIPES

DETECTION OF AMPHETAMINE IN SYRINGES.

TOUCH DNA: THE POSSIBILITY OF CONTAMINATION DURING A PRESUMPTIVE DRUG TESTING PROCEDURE

HEROIN AND CUTTING AGENT SOLUBILITIES IN RELATION TO ASSESSMENT OF A SEIZURE AS BEING INTENDED FOR PERSONAL USE

ENDOGENOUS ALCOHOL CHALLENGE (ROAD TRAFFIC ACCIDENT)

CRYSTAL METH LAB

MAGNETIC FUEL PRE-TREATMENT METHOD (HIGH QUANTUM)

SINGLE POINT USE OF MODERN EVIDENTIAL BREATH ANALYSIS DEVICE CLOSE TO LIMIT

CASE INVOLVING INDIRECT DNA EVIDENCE

SIGNIFICANCE OF THE RESULTS OF PRISON TESTING OF DRUGS IN URINE FOR PAROLE APPLICATION

ALCOHOL RTA

TOXICOLOGY RAPE

PRESCRIPTION DRUG - RTA

CANNABIS CONSUMPTION RATES

PRESCRIPTION DRUG - RTA

CANNABIS CONSUMPTION RATES
TOXICOLOGY RAPE
TOXICOLOGY MURDER
ALCOHOL RTA
ALCOHOL-SPIKED DRINKS - RTA
DNA-GBH
LACED DRINKS – RTA
RICIN
CANNABIS CULTIVATION
CANNABIS DRIVING
CRACK RAPE
DNA - MURDER
EXPLOSIVES - PETROL AND PIPE BOMBS
CS GAS ASSAULT
ALCOHOL - RTA
DNA SALIVA INAPPROPRIATE TOUCHING
HIGH VALUE CANNABIS CULTIVATION
EXPLOSIVES TRACES IN RUCKSACK
TRAMADOL/COCAINE/ALCOHOL RTA
TAZER
CHAMPIX RTA
DNA RAPE
CANNABIS CULTIVATION FOR SELF MEDICATION OF SEVERE PAIN
DNA: RAPE
DNA: FIREARMS
EXPLOSIVES: 18,000 PAGE TORRENT DOWNLOAD
EXPLOSIVES: HOME CHEMICAL COLLECTION
TOX: RAPE ALCOHOL
DNA: RAPE
DNA: ROBBERY
DNA: ASSAULT
TOUCH DNA (DRUG WRAP)
DNA: BLOODSTAINS (MURDER)
DNA: HIGH VALUE DRUG SEIZURE
DNA: ROBBERY
DRUGS: CRACK/BENZOCAINE
DRUGS: BZP, COCAINE, ECSTASY
TOX: INTERACTION OF ALCOHOL WITH PAINKILLERS
TOX: ALCOHOL BACK CALCULATIONS (3) (HIP FLASK)

TOX: ENDOGENOUS ALCOHOL/RTA/CANDIDA
EXPLOSIVES: INSPIRE MAGAZINE AND TORRENT DOWNLOAD
LEGAL HIGHS
DRUG DRIVING
DNA: RAPE OF A MINOR
DNA SALIVA ON BOTTLE
DNA: NOVEL ATTEMPT AT SEPARATING SKIN PARTICLES FROM BLOOD CELLS IN A
BLOODSTAIN
DIAZEPAM AND CANNABIS DRIVING
HEROIN FOR PERSONAL USE
EXPLOSIVES INSTRUCTIONS
ALCOHOL IN URINE (RTA)
DNA QUALITY CONTROL
DNA SEMEN AND SKIN CONTACT
DNA ON DRUGS WRAP

Acknowledging 25 years

IT HAS BEEN 25 YEARS SINCE WE DEVELOPED THE SILICA CAPILLARY COLUMN GAS CHROMATOGRAPHY THERMAL ENERGY ANALYSER METHOD FOR THE TRACE ANALYSIS OF EXPLOSIVES AND ORGANIC GUNSHOT RESIDUE COMPONENTS IN HEAVILY CONTAMINATED FORENSIC EXTRACTS

J Chromatography. 1982-1987

ALSO WE CELEBRATE THE INTRODUCTION BY US OF THE RIGOROUS QUALITY CONTROL PRINCIPLES REQUIRED TO BE USED WITH SUCH A SENSITIVE SYSTEM, NOW DUPLICATED IN FORENSIC LABORATORIES WORLDWIDE

Researched in the period 1990 Acknowledged in J. Forensic Science.1996

25 YEARS SERVICE

FOR 25 YEARS THIS UNMODIFIED METHOD HAS BEEN THE EYES AND EARS OF THE WORLD FORENSIC COMMUNITY IN REGARD OF TRACE EXPLOSIVES DETECTION.

ALSO WE INTRODUCED THE FIRST PICOGRAM METHOD FOR THE TRACE ANALYSIS OF BENZODIAZEPINE DATE RAPE DRUGS USING SILICA CAPILLARY COLUMN TECHNOLOGY. J Chromatography. 1988

THE FIRST REPORTED METHOD FOR THE TRACE ANALYSIS OF NITROCELLULOSE BY TLC. Journal of Chromatography 1988

THE FIRST REPORTED METHOD FOR THE DETECTION OF PROSTAGLANDINS AS A SEMEN MARKER IN RAPE CASES BY CAPILLARY COLUMN GC. Journal of Chromatography 1985

LATEST PIONEERING RESEARCH

In 2007 we pioneered a system during the trial of the Leeds insulin serial killer (Newcastle Crown Court).

A very high response was found in an insulin immunoassay procedure applied to the blood of a victim, however this could have arisen as a result of an accidental cross reactivity with another macromolecular biochemical material unrelated in structure to insulin.

The case was stymied!

Using Nanobore LC Electrospray Q-TOF MS-MS we succeeded in detecting and obtaining a parent ion profile of a low nanogram trace of insulin in a 4.5 year old minute blood sample (a residual smear on a sample tube)

A first in UK casework and in the world at that sensitivity!!

We currently are engaged in a research project attempting to develop a reliable method for the detection of traces of nitrocellulose in gunshot residue samples.

A difficult challenge!

PRESS RELEASES

APRIL (2016) In a case involving a cannabis growing operation in a six floor Victorian building. Built into a cliff and split into two levels (above and below upper ground level), separated into flats with all doors and halls equipped with sealed fire doors along with a cannabis cultivation operation equipped with an unusual two layer filtration system, using an extra filter for cleaning the air in the corridors outside of the growing areas in the lower house area and with a defendant having a compromised sense of smell: **“But defence expert Dr John Douse told the jury that the smell of cannabis from the basement may have dissipated across the large ground floor area. He added that the house has been “almost split in two”, with the basement almost sealed from the rest of the house. Dr Douse said that the filtration system may have been “very effective” at removing the smell of drugs. – Plymouth Herald: March 31 2016**

Lockerbie (Judges Findings and other press releases)

www.heraldscotland.com/lockerbie-trial

www.cbsnews.com/stories/2000

www.scotcourts.gov.uk/library/lockerbiejudgement.pdf

Bristol (Earl Swaby Murder trial) www.thisisbristol.co.uk

PP v Mohammad Ashik Bin Aris (Methamphetamine)

Evaluation of the Health Services Authority (Singapore) Analysis of Drugs and Analysis of Drugs in Urine Toxicological Facility

www.agc.gov.sg/documents/AGCPRESSRELEASE-20.08.11.pdf

UK WORLD FIRSTS!

27/10/2011: A PROBABLE WORLD FIRST SUCCESSFUL ENDOGENOUS ALCOHOL CHALLENGE

Defendant acquitted of a charge of aggravated drunken driving, on the grounds that part of the alcohol detected in his system may possibly have been generated endogenously as a result of severe gastrointestinal challenge.

CASEWORK

1: First casework and likely known application of nanobore UHPLC electrospray Q-TOF MS-MS to the detection and identification of nanogram traces of human Insulin in a 4.5 year old blood sample (R v Campbell Norris).

2: First proof of the possession of 1 Kilogram of high THC cannabis as being likely to have been for the purpose of a defendants own personal use (R v Tang).

3: First demonstration (as a result of multi disciplinary expertise) that police transports and stations were likely to be contaminated with gunshot residue as a result of police seized weapons and police officers and suspects who had recently discharged weapons.

4: In R v Crawford (2011) (Gunshot Residue) our observations of the likely common usage of very large numbers of cartridge operated bolt guns and staple fasteners having primer activation and also very often nitroglycerine as a propellant energetic additive in construction, appears to have been recognised by the implementation in forensic laboratories of new precautionary briefings to those visiting, that they should have showered and changed their clothes before coming to the laboratory if they have recently used such devices.

TRACE ANALYSIS

1: First method for GC analysis of explosives using silica capillary column GC.

2: The GC/TEA selective method of choice for the routine detection of explosives and organic firearms discharge residue components in heavily contaminated forensic extracts, and application in casework (Lockerbie: metal fragments from the luggage container, Hyde Park bombing: discarded attache case from the bomb, and also gunshot residue on the window sills of the Libyan Embassy in London).

3: The first method for the TLC characterisation of Nitrocellulose. (Under further development).

4: The first capillary GC method for the analysis of benzodiazepine date rape drugs.

5: The first capillary GC method for the analysis of prostaglandin markers (present in semen) in rape cases.

6: The first application of clean room technology and routine trace analysis of surfaces within the laboratory to the forensic detection of ultra low levels of explosives.

7: The first application of capillary SFC/TEA to the trace analysis of explosives (especially highly involatile explosives such as HNBB) and also benzodiazepines.

8: Novel headspace and solid phase methods for cleaning up highly contaminated samples for the forensic trace analysis of drugs and explosives.

CHEMICAL SYNTHESIS

1: Novel applications in pyrrole chemistry (research ongoing).

2: Novel synthetic approaches to the barbiturates using carbodiimides and alkali metal liquid ammonia and high pressure catalytic hydrogenolysis.

3: Novel chemical approaches to the bicyclic and tricyclic bornanes.

MAJOR NEW FORENSIC CHALLENGES

ENDOGENOUS ALCOHOL TEST CASE

The finding of the Court in a case of possible endogenous alcohol production was that the defendant was innocent of charges of aggravated drunken driving, and for which he was duly awarded full compensation.

This finding is being challenged!

A TRIO OF NEW ALCOHOL CHALLENGES

a: Dram shop law (ability to recognise the level of intoxication in another person) (Applied in Mc Cluckie v Worrall (High Quantum Injury Damages) (2010) (Settled) and R v Daniel Jones (Rape) (2012) (Acquitted).

b: Endogenous Alcohol (PP v Sjogren: Acquitted, at Test Case Stage).

c: Novel challenge due to a type of mixer

RESEARCH

In collaboration with a University we are embarking on the following program of forensic research:

- Extending the range and effectiveness of the GC and TLC analysis of explosives.
- Improving the sensitivity and selectivity of the TEA detector.
- Developing a reliable method for the detection and identification of traces of propellant grade nitrocellulose in gunshot residue samples, involving reliable discrimination from commercial grades.
- Improved clean-up methods for the trace analysis of explosives in highly contaminated forensic samples.
- Developing a sensitive and selective technique for the detection of peroxide based explosives in highly contaminated forensic samples.
- Developing a simplified routine technique for the trace analysis of prostaglandins in the forensic trace analysis of semen traces in sexual offences cases.
- Developing a more reliable selective method for the separation of cellular DNA from sperm head DNA.
- Development of a reliable method for authenticating works of art using DNA profiling techniques.

SEPARATION OF SKIN PARTICLES FROM WHITE BLOOD CELLS

- A method is being researched into the possibility of the separation of skin particles from red blood cells in complex stains

THE NITROCELLULOSE PROBLEM:

Current active research projects in this area (funded by ourselves) are as follows:

1: DEVELOPMENT OF A POSSIBLE DEFINITIVE METHOD FOR THE CHARACTERISATION AND DIFFERENTIATION OF FORENSIC SAMPLES OF ENERGETIC AND COMMERCIAL GRADES OF NITROCELLULOSE

This project is being carried out using a contract with Oxford University, and aims to try to develop a conclusive method whereby energetic and commercial grades of nitrocellulose can be reliably identified and differentiated.

2: ATTEMPTED DEVELOPMENT OF AN IMPROVED TRACE ANALYTICAL METHOD OF IMPROVED SENSITIVITY: CAPABLE OF RELIABLY DETECTING AND IDENTIFYING RESIDUES OF ENERGETIC GRADES OF NITROCELLULOSE DEPOSITED AS A RESULT OF FIREARMS DISCHARGE, AND ALSO CAPABLE OF CONCLUSIVELY DIFFERENTIATING SUCH RESIDUES FROM UBIQUITOUS LEVELS OF COMMERCIAL GRADES OF NITROCELLULOSE PRESENT IN THE GENERAL ENVIRONMENT

This project is being carried in house with a developed strategy in the process of attempting to be implemented.

ENDOGENOUS ALCOHOL:

Evidence for this phenomenon is tantalising.

This project aims to seek out appropriately physiologically challenged, or otherwise unique individuals, who exhibit likely expected symptoms, and to attempt to investigate, and define the circumstances where production of alcohol endogenously at levels that may exceed the capacity of the liver to immediately remove them by metabolism may exist.