

23 Priory Road
Sale

Cheshire M33 2BU

Tel No. 0161 973 7032
Mob: 07854743276

E-mail: PeterBaugh682@hotmail.com
Web site: www.analyticalmethodologycentre.com

Curriculum Vitae

Full Name	Peter John Baugh
Address	23, Priory Road Sale Cheshire M33 2BU England UK
Date/Place of Birth	October 26, 1938 / Taunton, England
Schools attended	1950 - 57 Colwyn Bay Grammar School
Examinations taken	1955 GCE English Lang./Lit., History, Geography, French, Chemistry, Physics and Mathematics 1957 A level Chemistry (B), Physics (D), and Mathematics (E)
Universities attended	1957 – 64 University College of South Wales & Monmouthshire, Cardiff
Examinations taken	1960 – General degree, Chemistry and Pure Mathematics 1961 – Honours Degree, Class 2 Division I, Chemistry
Postgraduate Degree	1964 – PhD, University of Wales Radiation Chemistry of Carbohydrates
Postdoctoral Research	1964 – 66 United States Department of Agriculture, South Regional Research Laboratory, New Orleans, LA, USA 1966 – 67 University College, Cardiff
Academic Posts	1967 – 71 Lecturer, Dept. of Chemistry and

Applied Chemistry, University of
Salford
1971 - 1998
Senior Lecturer, University of Salford

1998 – 2000
Part-time Contract, University of
Salford

2002 – 2003
Part-time lecturer, Liverpool John
Moores University MSc in Analytical
Chemistry and MChem

2004-2010 Visiting Professor at
University of Chester, Department of
Biological Sciences

Teaching Experience

lectures, practicals and tutorial work

1967 – 1990
Undergraduate programmes – all
Years and final year service
applied, physical inorganic, analytical,
radiation & environmental chemistry
M. Sc. Programmes in Nuclear &
Radiation Chemistry and Analytical
Chemistry, module tutor in Gas
Chromatography and Mass
Spectrometry

1991 – 2000
Course Coordinator and module tutor
for the MSc in Analytical Chemistry.
Modules in Final Year Chemistry
and Environmental Resource Science
Programmes

2002 – 2003
Part-time lecturer in Chromatography
and Mass Spectrometry on the MSc
Course in Analytical Chemistry at
Liverpool John Moores University

Research Experience & Supervision

1961 – 64, postgraduate research
Thesis - Radiation Chemistry of
Carbohydrates

1964 –66 postdoctoral research -
Radiation-induced radical reactions in
cellulosic and polymeric systems:
Applications of electron spin reson-
ance

1966 – 67 postdoctoral research -
Photochemical Degradation of
Cellulosic and Dyed Systems

1967 - 1985
Radiation and Photochemical

	<p>Studies of Carbohydrate and Cellulosic Systems using primarily Electron Spin Resonance and Gas Chromatography/Mass Spectrometry (with Luminescence methods) 1986 – 2000 Pesticide analysis in Environmental Matrices, Development of sample preparative methods and applications of GC and Liquid Chromatography/Mass Spectrometry 25 PhD and 10 MSc postgraduates Supervised (UK and Overseas)</p>
Research Publications	one book edited and over 80 published papers and reviews
University Administration	Faculty/Cross Faculty Board Member, Chair of Dept. Postgraduate Panel & Postgraduate Admissions
Sabbatical/Consultancy Leave & Overseas Visits	<p>1974 Max Planck Institute, Mulheim and Hahn Meitner Institute - Berlin 1975 National Physical Laboratory 1992 University of Dar Es Salaam 1995 & 1998, East China Normal University, Shanghai, China</p>
Consultancy Analytical Work	<p>1981 – 2000 University of Salford, Gas Chromatography / Mass Spectrometry Service over £25000 MRC £15,000 (Chemical Taxonomy) & £7500 (London School Tropical Med) 2001 – 2005 Hall Analytical, Wythenshawe, Manchester 2004 Training course for Quay Pharmaceuticals, Bromborough, Wirral</p>
Funding	<p>1991-2000 MSc taught courses in Nuclear & Radiation Chemistry and Analytical Chemistry Programmes 160 f-t and p-t students trained Also Manchester Tech. Training for 10 trainees. Total funds - £800,000 1970 - 2000 Research Sponsorship through SERC and EPSRC QUOTA/CASE projects for postgraduate studentships. £ 60,000 1991 – 1995 Research contract, EA(NRA), Fate of Moth Proofing Agents in Water Courses - £100,000 1984 Short listed for EPSRC GC/MS</p>

Service (α rated)
1985 University Research Grant for CI-MS facility. £8000
2000 Short Listed For EPSRC MTP in Analytical Methodologies for Scientists in Industry

Conference organisation

1967 – 1985 co-organiser of several Radiation Chemistry meetings
1997 Environmental Mass Spectrometry
one day meeting at University of Salford (BMSS)
1998 Analytical Course Forum, University of Salford (RSC)
1998 – 2010
British Mass Spectrometry Society - Special Interest Group & organiser of sessions on Environmental Mass Spectrometry, Warwick, Loughborough
2004-2010 2nd 3rd 4th & 5th National Meetings on Environmental Mass Spectrometry, University of Chester
2012-2017 EFASIG Meetings at MMU (2012), BAT R & D Southampton (, 2014, 2016, 2017), The International Centre, Telford (at WWEM 2014 & 2016).
2018 EFASIGatWWEM2018
November 22, The International Centre, Telford

Conference attended Oral and poster presentations

1963 – 1985 Miller Conference, American Chemical Society, Nato Advanced Study Institute, Carbohydrate/Cellulose Research - UK and International.
Association for Radiation Research, International Conferences on Radiation Research
1985 – 2017
Attendance of International Mass Spectrometry Conferences, British Mass Spectrometry Society Meetings, Royal Society of Chemistry and

Analytical Chemistry Meetings.

External Examining/ Committees

1995 MSc in Analytical Chemistry,
Bristol

1995 – 98 BSc, Sheffield Hallam

1974 – 2016 MSc and PhD vivas at
Cardiff, Swansea, Manchester
MMU, York

1998 – 1999 Education & Training sub-
committee, Royal Society of Chemistry

Affiliations

AUT, ARR, BMSS, Chromatographic
Society, Labour Party

Royal Society of Chemistry

F.R.S.C., July 2003

Social Activities & Hobbies

Astronomy, Classical and Jazz Piano,
Classical and Science History,
Cycling, DIY/Gardening, Golf, Rowing,
Running

Publications

1. G. O. Phillips and P. Baugh, *Molecular Environment Effects in the Radiation Decomposition of α -D-glucose*, *Nature*, 1963, 282-283.
2. G. O. Phillips and P. J. Baugh, *Energy Transport in Carbohydrates. Part 1. Molecular Aggregation Effects*, *J.Chem.Soc. (A)*, 1966, 370 – 377.
3. G. O. Phillips, P. J. Baugh and G Lofroth, *Energy Transport in Carbohydrates. Part II. Radiation Decomposition of α -D-glucose*. *J.Chem.Soc. (A)*, 1966, 377 – 382.
4. G. O. Phillips, M. Young, and P. J Baugh, *Energy Transfer in Carbohydrate Systems*, in *Proc. Assoc. Radiat. Res.*, 1965 (edited by G. O. Phillips), Elsevier, Amsterdam, pages ?
5. G. O. Phillips and P. J. Baugh, *Energy Transport in Carbohydrates. Part IV. Energy Transfer in Cyclo-hepta-amylose complexes*. *J.Chem.Soc. (A)*, 1966, 387 – 392.
6. Jett. C. Arthur, Jr., Peter J. Baugh and Oscar Hinojosa, *ESR Study of Reactions of Cellulose Initiated by the Ceric Ion Method*. *J. Applied Polymer Sci.*, 1966, **10**, 1591 – 1606.
7. Jett. C. Arthur, Jr., Peter. J, Baugh and Oscar Hinojosa, *ESR Study of Reactions of Cellulose Initiated by the Ceric Ion Method*. *International Symposium on Macromolecular Chemistry, Tokyo and Kyoto, Japan, September 28 – October 4 1966, IV 28 – 31.*
8. Peter. J, Baugh, Glyn O. Phillips and Jett. C. Arthur, Jr., *An Electron Spin Resonance Study of Intermediates Formed during the Photosensitized Oxidation of Alcohols*. *J. Phys. Chem.*, 1966, **70**, 3061 – 3069.
9. Peter J. Baugh, Oscar Hinojosa, and Jett. C. Arthur, Jr., *ESR Study of Post-Irradiation Reactions of Cellulose and Acrylonitrile*. *J. Appl. Pol. Sc.*, 1967, **11**, 1139 – 1153.

10. Peter J. Baugh, Oscar Hinojosa, and Jett. C. Arthur, Jr., *An Electron Spin Resonance Study of Intermediates Induced in Carbohydrates by Titanium Trichloride – Hydrogen Peroxide*. J. Phys. Chem., 1967, **71**, 1135 – 1137.
11. Peter J. Baugh, Oscar Hinojosa, Trinidad Mares, Milton J. Hoffman, and Jett. C. Arthur, Jr., *Effects of Light on the ESR Spectra of Dyed Cottons*. Textile Res. J., 1967, **37**, 942 – 947.
12. Peter J. Baugh, Oscar Hinojosa, Jett. C. Arthur, Jr., and Trinidad Mares, *ESR Spectra of Copper Complexes of Cellulose*. J. Appl. Polymer Sci., 1968, **12**, 249 – 265.
13. P. J. Baugh, K Kershaw and G. O. Phillips, *Electron Spin Resonance Study of γ -Irradiated Carbohydrate Ices at Low Temperature*. Nature, 1969, 1138 – 1139.
14. P. J. Baugh, G. O. Phillips and N. W. Worthington, *Photodegradation of Cotton Cellulose I – Reactions Sensitised by Anthraquinone Sulphonates*. J. Soc. Dyers and Colourists, 1969, **85**, 241 – 245.
15. P. J. Baugh, G. O. Phillips and N. W. Worthington, *Photodegradation of Cotton Cellulose Sensitised by Anthraquinone Systems*. Ist Symposium International de la Recherche Textile Cotonniere, 22 – 25, avril 1969, Paris, publie Les Editions de L'Industrie Textile, Paris, pages 767 – 780.
16. P. J. Baugh, G. O. Phillips and N. W. Worthington, P. J. Baugh. *Photodegradation of Cotton Cellulose II – Effect of the Vat Dyes Caledon Yellow GN, 5GK and 4G*. J. Soc. Dyers & Colourists, 1970, **86**, 19 – 24.
17. P. J. Baugh, K Kershaw and G. O. Phillips, *Electron Spin Resonance Study of γ -Irradiated Carbohydrate Ices at Low Temperature*. J.Chem.Soc. (B), 1970, 1482 – 1489.
18. P. J. Baugh, J. B. Lawton and G. O. Phillips, *Dye-binding Properties of Anionic Celluloses and the Mechanism of Ion Binding in the Solid State*. J. Soc. Dyers & Colourists, 1971, **87**, 81 – 87.
19. P. J. Baugh, R. E. Morgan, K Kershaw and G. O. Phillips, *Radical Processes Following γ -Irradiation of Frozen Concentrated Matrices of Heparin and Dextran Sulphate*. Radiation Res., 1971, **46**, 217 – 225.
20. K. Worthington and P. J. Baugh, *Investigation of Cellulose Fine Structure by a Radiation-E.S.R. Technique*. Cellulose Chem. & Tech. 1971, **5**, 23 – 35.
21. O. Gal, P. J. Baugh, and G. O. Phillips, *Radiolytic Decomposition of Solid Oxalic Acid*. Int. J. Appl. Radiation & Isotopes, 1971, **22**, 231 – 234.
22. P. J. Baugh and Glyn O. Phillips, *Photochemical Degradation in 'Cellulose and Cellulose Derivatives'* (Eds. Norbert Bikales and Leon Segal), J. Wiley & Sons, N.Y., 1971, vol. 5 Pt 5, pages 1047 – 1077.
23. P. J. Baugh, J. B. Lawton and G. O. Phillips, *Modification of the Surface Characteristics of Cotton by Introduction of Anionic Groups, and the Mechanism of Ion Binding*. J. Amer. Oil Chemists. Soc., 1971, **48**, 279 – 283.
24. P. J. Baugh, J. B. Lawton and G. O. Phillips, *Polyanions and Their complexes. VIII. Interaction Methylene Blue with Cellulosic Polyanions in Heterogeneous Systems*. J. Phys. Chem., 1972, **76**, 688 – 695.

25. P. J. Baugh, K Kershaw and G. O. Phillips, *Nitroxide and Nitroanion Radicals Derived from Nitrophenyl β -D-glucopyranosides*. Carbohydr. Res., 1972, **22**, 233 – 243.
26. O. Gal, P. J. Baugh, and G. O. Phillips, *The Radiolysis of Lithium Oxalate Induced by the reaction ${}^6\text{Li} (n,\alpha) {}^3\text{H}$ – II Study by Nondestructive Methods*. J. Radiat. Phys. Chem., 1972, **4**, 159 - 169
27. N. U. Ahmed, P. J. Baugh and G. O. Phillips, *Radiation Chemistry of Carbohydrates. Part XVIII. The extreme and Variable Susceptibility of Crystalline Lactose to Ionising Radiations*. J. Chem. Soc., Perkin Trans. II, 1972, 1305 – 1309.
28. J. Bardsley, P. J. Baugh, and G. O. Phillips, *Trapping of Radiation-induced Electrons in Cycloamylose Hydrates: Electron Spins Resonance Study*. J. Chem. Soc. Chem. Comm. 1972, 1335 - 1336
29. O. Gal, P. J. Baugh, and G. O. Phillips, *The Radiolysis of Lithium Oxalate Induced by the reaction ${}^6\text{Li} (n,\alpha) {}^3\text{H}$* . Proc. 3rd Tihany Symposium on Radiation Chemistry, Akademiai Kiado, Budapest, Hungary, 1972, pages 87 – 95.
30. Peter. J. Baugh, Kenneth Kershaw, Glyn. O. Phillips and (the late) Martin Webber, *Radiation Studies of Aryl Glycosides. Part VI. Radicals derived from Phenyl β -D-glucopyranosides*. Carbohydr. Res., 1973, **31**, 199 – 209.
31. Jeffrey Bardsley, Peter. J. Baugh, James I. Goodall and Glyn. O. Phillips, *Hydrogen Adduct Radical Formation in γ -Irradiated α -, β -, and γ -Cycloamylose-Benzene Complexes*. J. Chem. Soc. Chem. Comm., 1974, 890 – 891.
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33. G. Armand, Peter. J. Baugh, E. A. Balazs, and Glyn. O. Phillips, *Radiation Protection of Hyaluronic Acid in the Solid State*. Radiation Res., 1975, **64**, 573 – 580.
34. Peter. J. Baugh, J. Ian Goodall, Glyn. O. Phillips, Clemens von Sonntag, and Miral Dizdaroglu, *γ -Irradiation-Induced Ring-Opening of Polycrystalline Cycloamylose Hydrates*. Carbohydr. Res., 1976, **49**, 315 – 232.
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- of irradiated carbohydrates*, Letters to the Editor, Radiation Effects, 1977, **32**, 125 – 126.
39. Peter. J. Baugh, Allan G. W. Bradbury, and John B. Lawton, *Methylation as a Means of Location of Anionic Groups in Some Cellulose Phosphates*. Carbohydr. Res. 1978, **63**, 215 – 222.
 40. Peter J. Baugh, J. Ian Goodall and (in part) Jeffrey Bardsley, *Organic Guest Radical and Radical Anion Trapping in Cycloamylose Host Matrices induced by γ -Irradiation at 77 K*. J. Chem. Soc., Perkin trans. II, 1978, 700 – 706.
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 42. P. J. Baugh, *Aspects of Radiation Studies on Carbohydrate Systems*, in Studies in Physical & Theoretical Chemistry (edited by H. E. Edwards et al), Pergamon, 1979, 115 – 125.
 43. Peter J. Baugh and Philip Laflin, *Lyoluminescence of Irradiated Carbohydrates – The Role of Dissolution Rate and Oxygen*. Radiat. Phys. Chem., 1980, **16**, 51 – 57.
 44. P. J. Baugh, *Photodegradation and Photooxidation of Cellulose*, in Developments in Polymer Photochemistry – 2 (edited by Norman S. Allen), Applied Science, Barking, 1982, Chapt 5. pages 163 – 214.
 45. Peter. J. Baugh, Ron Catterall, William S. Glaunsinger, and Paul B Williams, *Electron Spin Resonance Spectra of Aqueated Alkali Metal Atoms*. J. Chem. Soc. Chem. Comm., 1982, 604 – 606.
 46. D. A. North, R. Harrop, G. O. Phillips and P. J. Baugh, *UV and Vacuum UV Excited Luminescence of Naphthoyl Cellulose*. Polymer Photochem. 1982, **2**, 309 – 319.
 47. Peter. J. Baugh, John S. Moore, Alan F. Norris, and Clemens von Sonntag, *γ -Radiolysis of N_2O – Saturated Aqueous Glycerol Solutions: Product Yields and Free Radical Mechanisms*. Radiat. Phys. Chem., 1982, **20**, 215 – 222.
 48. P. J. Baugh, J. Clark, S, Evans, T. Freeman, J. S. Moore, A. F. Norris, C. von Sonntag, *The Radiolysis of Glycerol in Aqueous Solutions*. 5th Symposium on Radiation Chemistry, 1982, Akademiai Kiado, Budapest, pages 249 – 256.
 49. P. J. Baugh, G. V. Buxton, R. Catterall, G, A, Salmon, and P.B. Williams, *Some Recent Observations in Alkali Metal Hydroxide Aqueous Glasses*. Int. Conference on Radiation Research, Amsterdam, 1982, A2-02.
 50. George V. Buxton, Madeleine Medley, G. Arthur Salmon, Peter J. Baugh, Ron Catterall, and Paul B. Williams, *Evidence for Infrared Absorbing Electrons in Alkaline Aqueous Glasses. A Pulse-radiolysis Study at Temperatures down to 6 K*. J. Chem. Soc. Faraday Trans., I, 1985, **81**, 3068 – 3072.
 51. P. J. Baugh, A. Casson, M. W. Jones and A. C. Jones, *G.c./m.s. analysis of trimethyl gallium and trimethyl aluminium*. Chemtronics, 1987, **2**, 93 – 97.
 52. P. J. Baugh, A. Casson, M. W. Jones and A. C. Jones, *Sampling and injection system for the analysis of metalorganic chemicals by gas chromatography – mass spectrometry*. J. Chromatogr., 1987, **411**, 445 – 451.

53. Zaini B. Assim and Peter. J. Baugh, *Environmental Analysis using Steam Distillation Extraction and Capillary Gas Chromatography Mass Spectrometry*, Proc. Int. Mass Spectrometry Conference, Bordeaux, 1988, Session , page 1509
54. Ahsan K. Abbas and Peter. J. Baugh, *Formation of SeO₂⁻ Radical Anions at 92 K during the Photobleaching of e_t⁻ in gamma-irradiated NaOH (10 M) Aqueous Glasses (77 K) Containing Selenite Ions*. Radiat. Phys. Chem., 1989, **33**, 241 – 244.
55. E. Helen Jenkins and Peter. J. Baugh, *Analysis of Pentachlorophenol using Extraction Methods, Derivatisation and Gas Chromatography – Mass Spectrometry*. Analytical Proceedings, 1993, **30**, 441 - 442
56. P. J. Baugh, *Application of packed and capillary GC*. In Gas Chromatography – A Practical Approach (edited by P. J. Baugh) IRL, Oxford University Press, Oxford, 1993, pages 103 –131.
57. P. J. Baugh, editor, *Gas Chromatography – A Practical Approach*, IRL, Oxford University Press, 1993, Oxford.
58. I. C. P. Fortes and P. J. Baugh, *Study of calcium soap pyrolysates derived from the Macauba fruit (Acrocomia sclerocarpa M.). Derivatization and analysis by GC.MS and CI-MS*. J. Anal. Appl. Pyrolysis, 1994, **29**, 153 – 167.
59. G. A. Bonwick, P. Abdul-Latif, C. Sun, P. J. Baugh, C. J. Smith, R. Armitage and D. H. Davies, *Comparison of Chemical Methods and Immunoassay for the Detection of Pesticide Residues in Various Matrices*. Food & Agricultural Immunology, 1994, **6**, 267 – 276.
60. G. A. Bonwick, M. Putman, P. J. Baugh, C. J. Smith, R. Armitage and D. H. Davies, *Immunoassay Development for Permethrin Residues*. Food & Agricultural Immunology, 1994, **6**, 341 – 356.
61. V. W. Pentreath, P. J. Baugh, and D. R. Lavin, *Sleeping sickness and the central nervous system*, Onderstepoort J. Veterinary Res., 1994, **61**, 369 – 377.
62. C.P.Lee, R. Blackburn and P. J. Baugh, *Computer Coupled ESR Spectroscopy with Specific Application to the Detection of Irradiated Food Products*. Radiat. Phys. Chem., 1995, **45**, 719 – 728.
63. G. A. Bonwick, C. Sun, P. Abdul-Latif, P. J. Baugh, C. J. Smith, R. Armitage and D. H. Davies, *Determination of permethrin and cyfluthrin in water and sediment by gas chromatography – mass spectrometry operated in the negative ion chemical ionisation mode*. J. Chromatogr., 1995, **707**, 293 – 302.
64. M. Yasin, P. J. Baugh, P. Hancock, G. A. Bonwick, R. Armitage and D. H. Davies, *Synthetic Pyrethroid Insecticides Analysis by Gas Chromatography Operated in Negative-ion Chemical Ionization mode in Soil, Moss and Fish Tissue*. Rapid Commun. Mass Spectrom. 1995, **9**, 1411 – 1417.
65. G. A. Bonwick, J. E. Cresswell, A. L. Tyreman, P. J. Baugh, J. H. H. Williams, C. J. Smith, R. Armitage and D. H. Davies, *J. Immunological Methods*, 1996, **196**, 163 – 173.
66. G. A. Bonwick, M. Yasin, P. Hancock, P. J. Baugh, J. H. H. Williams, C. J. Smith, R. Armitage and D. H. Davies, *Synthetic Pyrethroid Insecticides in Fish: Analysis by Gas Chromatography – Mass Spectrometry*

- Operated in Negative Ion Chemical Ionization Mode and ELISA*. Food & Agricultural Immunology, 1996, **8**, 185 – 194.
67. M. Yasin, P. J. Baugh, G. A. Bonwick, D. H. Davies, P. Hancock, and M. Leinoudi, *Analytical method development for the determination of synthetic pyrethroid insecticides in soil by gas chromatography – mass spectrometry operated in negative-ion chemical ionisation mode*. J. Chromatogr. A, 1996, **754**, 235 – 243.
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 70. P. M. Hancock, M. Walsh, S. J. G. White, D. A. Catlow and P. J. Baugh, *Extraction and determination of the Mitins sulcofuron and flucofuron from environmental river water*. Analyst, 1998, **123**, 1669 – 1974.
 71. I. C. P. Fortes and P. J. Baugh, *Study of Analytical On-line Pyrolysis of oils from Macauba fruit (Acromia sclerocarpa M) via GC/MS*. J. Brazilian Chem. Soc. 1999, **10**, 469 – 477.
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 77. M. A. Ali, P. J. Baugh, D. H. Davies, J. Lines and E Magbity, *'Correlation Studies between Elisa and GC-MS for the Analysis of pesticide residues in mosquito net materials'*. Poster presented at the 2nd National Meeting on Environmental Mass Spectrometry, 2004, April 01, University College Chester.
 78. M. A. Ali, P. J. Baugh, D. H. Davies, J. Lines and E Magbity, *'Correlation studies between Elisa and GC-MS for the analysis of pesticide residues in Mosquito Net materials'*. Poster presented at the 28th Annual BMSS meeting, University of Derby, September 5-8, 2004.

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