

## NATURAL HISTORY MUSEUM SCIENCE DEPARTMENTS PUBLICATIONS 2004–2005

The list of publications gives Departmental staff and Associates in capitals

### BOTANY DEPARTMENT PUBLICATIONS 2004–2005

#### A – Authored and edited peer reviewed professional books and monographs

**Godfray, H. C. J. & KNAPP, S.** (eds). 2004. Taxonomy for the 21<sup>st</sup> century: special issue. *Philosophical Transactions of the Royal Society, series B, Biological Sciences* **359**: 559-739.

**WILLIAMS, D. M. & Forey, P. L.**, (eds). 2004. *Milestones in Systematics*. 290p. Taylor & Francis, London.

#### B – Other books and monographs (including popular works)

**ALLEN, D. & Hatfield, G.** 2004. *Medicinal Plants in folk tradition: an ethnobotany of Britain and Ireland*. Timber Press, Cambridge.

**Milliken, W. & BRIDGEWATER, S.** 2004. *Flora Celtica: Plants & People in Scotland*. 300p. Berlin Press.

**VICKERY, R.** (2004). *Wildlife Garden at the Natural History Museum*. 64p. The Natural History Museum, London.

#### C – Peer reviewed articles in journals and edited volumes (includes accounts in Floras).

**Bartsch, I. & TITTLE, I.** 2004. The eulittoral rocky shore biotopes of Helgoland 1: past and present. *Helgoland Marine Research* **58**: 289-302.

**Bell, J. N. B., DAVIES, L. & Honour, S.** 2004. Air pollution research in London. pp.3-16. In: Klumpp, A., Ansel, W. & Klumpp, G, (eds), *Urban Air Pollution Bioindication and Environmental Awareness*. Cuviller, Göttingen.

**BELL, N. & NEWTON, A. E.** 2004. Systematic studies of non-hypanean pleurocarps: establishing a phylogenetic framework for investigating the origins of pleurocarpy. pp.290-319. In: Goffinet, B., Hollowell, V. & Magill, R. (eds), *St Louis: Missouri Botanical Gardens Press* **98**.

**BELL, N. & NEWTON, A. E.** 2005. The paraphyly of *Hypnodendron* and the phylogeny of related non-hypanean pleurocarpous mosses inferred from chloroplast and mitochondrial sequence data. *Systematic Botany* **30**: 34-51.

**Bentley, K., COX, E. J. & Bentley, P. J.** 2005. Nature's batik: a computer evolution model of diatom valve morphogenesis. *Journal of nanoscience & nanotechnology* **5**: 25-34.

**BRIDGEWATER, S., Ratter, J. A. & Ribeiro, J. F.** (2004). Biogeographic patterns, -diversity and dominance in the cerrado biome. *Biodiversity and Conservation* **13**: 2295-2318.

**Briggs, J. & HUMPHRIES, C. J.** 2004. Pt. 1 – Early Classics. pp.5-266. In: Lomolino, M.V., Sax, D.F. & Brown, J.H. (eds), Foundations of Biogeography. *Classic Papers with Commentaries* **1328**. University of Chicago Press, Chicago.

**CAFFERTY, S. & JARVIS, C. E.** 2004. Typification of Linnaean plant names in Cyperaceae. *Taxon* **53**: 177-181.

**CAFFERTY, S. & JARVIS, C. E.** 2004. Typification of Linnaean plant names in Boraginaceae. *Taxon* **53**: 799-805.

**CAFFERTY, S. & JARVIS, C. E.** 2004. Typification of Linnaean plant names in the Caryophyllaceae. *Taxon* **53**: 1049-1054.

**CARINE, M. A., Alexander, J. M. & Scotland, R. W.** 2004. A revision of the *Strobilanthes kunthiana* group (*Phlebophyllum sensu* Bremekamp). *Kew Bulletin* **59**: 1-25.

**CARINE, M. A., Francisco-Ortega, J., Santos-Guerra, A. & RUSSELL, S. J.** 2004. Relationships of island and continental floras: molecular evidence for multiple colonisations into Macaronesia and subsequent back-colonisation of the continent in *Convolvulus* L. *American Journal of Botany* **91**: 1070-1085.

**Clarkson, J. J., KNAPP, S., Aoki, S., Garcia, V. F., Olmstead, R. G., Leitch, A. R. & Chase, M. W.** 2004. Phylogenetic relationships in *Nicotiana* (Solanaceae) inferred from multiple plastid DNA regions. *Molecular Phylogenetics and Evolution* **33**: 75-90.

**Claxton, F., Banks, H., KLITGÅRD, B. B. & Crane, P. R.** Pollen morphology of families Quillajaceae and Surianaceae (Fabales). *Review of Palaeobotany and Palynology* **133**(3-4): 221-233.

**COX, E. J. & ROSS, R.** 2004. (1633) Proposal to conserve the name *Pinnularia gastrum* Ehrenberg with a conserved type (Bacillariophyta). *Taxon* **53**: 830.

**COX, E. J.** 2004. Pore occlusions in raphid diatoms – a reassessment of their structure and terminology. *Diatom* **20**: 33-46.

**COX, E. J. & REID, G.** 2004. Generic relationships within the Naviculineae – a preliminary analysis. pp 49-62. *Proceedings of the 17<sup>th</sup> International Diatom Symposium*. Biopress Ltd., Bristol.

**Dower, B. L., BATEMAN, R. M. & Stevenson, D. W.** 2004. Systematics, ontogeny, and phylogenetic implications of exceptional anatomically preserved cycadophyte leaves from Bearreraig Bay, Skye, Northwest Scotland. *Botanical Review* **70**: 105–120.

**Eastwood, A., Cronk, Q. C. B., VOGEL, J. C., Hemp, A. & Gibby, M.** (2004). Comparison of molecular and morphological data on St Helena: *Elaphoglossum*. *Plant Systematics and Evolution* **245**: 93-106.

**Eastwood, A., VOGEL, J. C., Gibby, M. & Cronk, Q. C. B.** (2004). Relationships and genetic diversity of endemic *Elaphoglossum* from St Helena. *Plant Systematics and Evolution* **245**: 107-118.

- Ebach, M. C. & WILLIAMS, D. M.** Classification. *Taxon* **53**: 791-794.
- ELLIS, L. T.** 2004. Two new records of *Syrrhopodon* (Calymperaceae, Musci) in SE Asia. *Tropical Bryology* **25**: 97-99.
- Forey, P. L. & WILLIAMS, D. M.** 2004 Introduction. pp.v-viii. In: Williams, D.M. & Forey, P.L. (eds), *Milestones in Systematics*. 290p. Taylor & Francis, London.
- JOHN, D. M. & George, J. D.** 2004. Intertidal and subtidal benthic communities in Abu Dhabi. pp. 94-123. In: *Marine Atlas of Abu Dhabi*. Emirates Heritage Club, Abu Dhabi.
- George, J. D. & JOHN, D. M.** 2004. The coral reefs of Abu Dhabi, UAE: past, present and future. pp.140-157. In: *Marine Atlas of Abu Dhabi*. Emirates Heritage Club, Abu Dhabi.
- Godfray, H. C. J. & KNAPP, S.** 2004. Introduction, Taxonomy for the 21<sup>st</sup> century. *Philosophical Transactions of the Royal Society, series B, Biological Sciences* **359**: 559-569.
- HARRINGTON, A. J.** 2004. A brief history of liverwort collecting in West Africa. In: Wigginton, M.J. (ed), E.W. Jones's Liverwort and Hornwort Flora of West Africa. *Scripta Botanica Belgica* **30**: 23-25.
- HARRINGTON, A. J. & Jones, E. W.** 2004. Distribution and habitats of liverworts in West Africa. In: Wigginton, M.J. (ed), E.W. Jones's Liverwort and Hornwort Flora of West Africa. *Scripta Botanica Belgica* **30**: 27-29.
- Hiscock K., Southward A., TITTLE I. & Hawkins S.** 2004. Effects of changing temperature on benthic marine life of Britain and Ireland. *Aquatic Conservation: Marine and Freshwater Ecosystems* **14**: 333-362.
- Holmes M. J. & BRODIE J.** (2004). Morphology, phenology and life history of *Porphyra dioica* (Bangiales, Rhodophyta) in the field and in laboratory culture. *Phycologia* **43**: 176-188.
- HUMPHRIES, C. J.** (2004). From dispersal to geographic congruence: comments on cladistic biogeography in the 20th Century. pp.225-260. In: Williams, D.M. & Forey, P.L. (eds), *Milestones in Systematics. Systematics Association Special Volume Series 67*. CRC Press, Boca Raton USA.
- HUMPHRIES, C. J. & Ebach, M. C.** 2004. Biogeography on a dynamic earth. pp.67-68. In: Lomolino M. V., and Heaney, L. R. (eds), *Frontiers of biogeography: new directions in the geography of nature*. Sinauer Associates Inc., Sunderland Massachusetts.
- HUMPHRIES, C. J. & Parenti, L. R.** 2004. *Cladistic Biogeography: (second edition – first Chinese Edition): Interpreting Patterns and Plant and Animal Distributions*. 167p + 2. Oxford University Press and Higher Education Press, China.
- JOHN, D. M., LAWSON, G. W., Price, J. H., Prud'homme van Reine, W. F. & Kostermans, T. B.** 2004. A Taxonomic and Geographical Catalogue of the Seaweeds of the Western Coast of Africa and Adjacent Islands. *Beihefte zur Nova Hedwigia Beihefte* **127**: 1-139.1
- Jüttner, I., Reichardt, E. & COX, E. J.** 2004. Taxonomy and ecology of some new *Gomphonema* species common in Himalayan streams. *Diatom Research* **19**: 235-264. (T: S&E 1394)
- KNAPP, S., Lamas, G., Nic Lughadha, E. & Novarino, G.** 2004. Stability or stasis in the names of organisms: the evolving Codes of nomenclature. *Philosophical Transactions of the Royal Society, series B, Biological Sciences* **359**: 611-622.

**KNAPP, S. & Clarkson, J. J.** 2004. (1642) Proposal to conserve the name *Nicotiana plumbaginifolia* against *N. pusilla*, *N. humilis* and *N. tenella* (Solanaceae). *Taxon* **53**: 844-846.

**KNAPP, S.** 2005. Biogeography – space, form and time. *Journal of Biogeography* **32**: 3-4.

**Kovarik, A., Matyasek, R., Lim, Y. K., Skalicka, K., Koukalova, B., KNAPP, S., Chase, M. W. & Leitch, A. R.** 2004. Concerted evolution of 18-5.8-26S rDNA repeats in *Nicotiana* allotetraploids. *Biological Journal of the Linnean Society* **82**: 615-625.

**Moylan, E. C., BENNETT, J. R., CARINE, M. A., Olmstead, R. G. & Scotland, R. W.** 2004. Phylogenetic relationships among *Strobilanthes* s.l. (Acanthaceae): evidence from ITS nrDNA, *trnL-F* cpDNA, and morphology. *American Journal of Botany* **91**: 724-735.

**NEWTON, A. E. & De Luna, E.** *Climacium dendroides* from Cofre de Perote, a high-altitude tropical site in Veracruz, Mexico. *The Bryologist* **107**: 368-372.

**Ohnuki, T., Aoyagi, H., Kitatsuji, Y., Samadfam, M., Kimura, Y. & PURVIS, O. W.** 2004. Plutonium (VI) accumulation and reduction by lichen biomass: correlation with U(VI). *Journal of Environmental Radioactivity* **77**: 339-353.

**O'SHEA, B. J.** 2004. *Hygrohypnum polare* (Lindb.) Loeske, new to Italy. In: Blockeel, T. et al. (eds), New National and Regional Bryophyte Records, 9. *Journal of Bryology* **26**: 63-66.

**O'SHEA, B. J.** 2004. The mosses described by Carl Müller from Georg Schweinfurth's collections in Sudan and D.R. Congo in 1869-1871, with a new checklist of Sudan mosses. *Cryptogamie, Bryologie* **25**(2): 107-116.

**O'SHEA, B. J.** 2004. *Distichium capillaceum*, new to Uganda. In: Blockeel, T. et al. (eds), New National and Regional Bryophyte Records, 10. *Journal of Bryology* **26**: 305.

**O'SHEA, B. J. & Matcham, H. W.** 2004. *Oreoweisia erosa* (Müll.Hal.) Kindb., new to Chile. In: Blockeel, T. et al. (eds), New National and Regional Bryophyte Records, 10. *Journal of Bryology* **26**: 306-307.

**O'SHEA, B. J.** 2005. Building a bryological framework - getting over the threshold. *Journal of the Hattori Botanical Laboratory* **97**: (accepted) 281-295.

**Parenti L. R. & HUMPHRIES, C. J.** 2004. Historical biogeography, the natural science. *Taxon* **53**(4): 899-903.

**PENN, M. G., SUTTON, D. A. & MONRO, A. K.,** 2004. Vegetation of the Greater Maya Mountains, Belize. *Systematics and Biodiversity* **2**: 21-44.

**Peruzzi, L., Passalacqua, N. G. & JARVIS, C. E.** 2004. Lectotypification of *Aizoon hispanicum*, *Plantago albicans*, and *Staphylea pinnata*, names of three Linnaean species occurring in Calabria (S. Italy). *Taxon* **53**: 540-542.

**PURVIS, O. W., Bailey, E. H., McLean, J., Kasama, T. & Williamson, B. J.** 2004. Uranium biosorption by the lichen *Trapelia involuta* at a uranium mine. *Geomicrobiology* **21**: 159-167.

**Ray, D. A., Dever, J. A., Platt, S. G., Rainwater, T. R., Finger, A. G., McMurry, S., Batzer, M. A., Barr, B., STAFFORD, P. J., McKnight, J. & Densmore, L. D.** 2004. Low levels of nucleotide

diversity in *Crocodylus moreletii* and evidence of hybridisation with *C. acutus*. *Conservation Genetics* **5**: 449–462.

**REID, G.** 2004. *Pleurosigma obscurum* W. Smith or *Gyrosigma obscurum* (W. Smith) Griffith et Henfrey? The tale of two genera. *Diatom Research* **19**: 353-360.

**REID, G.** 2004. On the identity of *Gyrosigma prolongatum* var. *closterioides* (Grunow) Cleve. *Diatom* **20**: 47-56.

**Ross, A. J. & YORK, P. V.** 2004. The Lower Cretaceous (Albian) arthropod fauna of Burmese amber, Myanmar: Forward. *Journal of Systematic Palaeontology* **2**(2): 95-100. The Natural History Museum.

**Ross, A. J. & YORK, P. V.** 2004. A catalogue of the type and figured specimens of Hexapoda from the Rhynie chert (early Devonian) at The Natural History Museum, London, UK. *Transactions of the Royal Society of Edinburgh: Earth Sciences* **94**: 391-395.

**RUMSEY, F. J., RUSSELL, S. J., Schäfer, H. & Rasbach, H.** 2004. Distribution, Ecology and cytology of *Asplenium azoricum* Lovis, Rasbach & Reichstein (Aspleniaceae, Pteridophyta) and its hybrids. *American Fern Journal* **94**: 113–125.

**Shipunov, A. B., Fay, M. F., Pillon, Y., BATEMAN, R. M. & Chase, M. W.** 2004. *Dactylorhiza* (Orchidaceae) in European Russia: combined molecular and morphological analysis. *American Journal of Botany* **91**: 1419–1426.

**SIMS, P. A.** 2004. *Isodiscus* Rattray: a problematic fossil marine genus. *Diatom* **20**: 67-78.

**Soltis, D. E., Albert, V. A., Kim, S., Yoo, M.-J. Soltis, P. S., FROHLICH, M. W., Leebens-Mack, J., Kong, H., Wall, K., Ma, H., & Depamphilis, C. W.** 2004. Evolution of the Flower. In: R. Henry (ed), *Plant diversity and evolution: genotypic and phenotypic variation in higher plants*. CABI Publishers.

**Spooner, D. M., Peralta, I. E. & KNAPP, S.** 2005. AFLP phylogeny of wild tomatoes [*Solanum* L. section *Lycopersicon* (Mill.) Wettst. subsection *Lycopersicon*]. *Taxon* **54**: 43- 61.

**STAFFORD, P. J.** 2004. A new species of *Tantilla* of the *taeniata* group (Serpentes; Colubridae) from southern Belize. *Journal of Herpetology* **38**(1): 43–52.

**STAFFORD, P. J.** 2005. Diet and reproductive ecology the Yucatan cricket-eating snake *Symphimus mayae* (Serpentes; Colubridae). *Journal of Zoology, London* **265**: 1–10.

**Toyoda, K. & WILLIAMS, D. M.** Description of *Achnanthes* Bory (Bacillariophyceae) based on Kützing's type slides and materials 1: New morphological information on *Achnanthes brevipes* var. *intermedia* (Kützing) Cleve. *Diatom* **20**: 159-65.

**TROBAJO, R., COX, E. J. & Quintana, X. D.** 2004. An investigation into the effects of some environmental variables on the morphology of *Nitzschia frustulum* (Bacillariophyta), in relation to its use as bioindicator. *Nova Hedwigia* **79**: 433-445.

**TROBAJO, R., Quintana, X. D. & Sabater, S.** 2004. Factors affecting the periphytic diatom community in Mediterranean coastal wetlands (Empordà wetlands, N.E. Spain). *Archiv für Hydrobiologie* **160**: 375-399.

**WILLIAMS, D. M.** Supertrees, Components and Three-item Data. pp. 389-408. In: Olaf Bininda-Emonds (ed), *Supertrees and their uses*. Kluwer Press.

**WILLIAMS, D. M.** Homology and Homologues, Cladistics and Phenetics: 150 Years of Progress. pp.191-224. In: Williams, D.M. & Forey, P.L. (eds), *Milestones in Systematics*. 290p. Taylor & Francis, London.

**WILLIAMS, D. M. & Metzeltin, D.** A new species of *Synedra* Ehrenb. with comments on auxospore and initial cell morphology. *Diatom* **20**: 57-66.

**Williamson B. J., Mikhailova I., PURVIS O. W. & Udachin V.** 2004. SEM-EDX analysis in the source apportionment of particulate matter on *Hypogymnia physodes* lichen transplants around the Cu smelter and former mining town of Karabash, South Urals, Russia. *The Science of the Total Environment*. **322**: 139-154.

**Williamson, B. J., Udachin, V., PURVIS, O. W., Spiro, B., Cressey, G. & Jones, G. C.** 2004. Characterisation of airborne particulate pollution in the Cu smelter and former mining town of Karabash, south Ural Mountains of Russia. *Environmental Monitoring and Assessment* **98**: 235-259.

**Zhang, Z.-Y., Yang, D.-Z., Lu, A.-M. & KNAPP, S.** 2005. Seed morphology of the tribe Hyoscyameae (Solanaceae). *Taxon* **54**: 71-83.

#### D – Non-published reports, including consultancies

**Bell, J. N. B. & DAVIES, L.** 2004. London's Air Quality and Bioindicators. pp.8. Oral presentation. *Abstracts of the 3<sup>rd</sup> London Environment and Future Conference (LEAF 3)*. The Natural History Museum, 1 November 2004.

**BRIDGEWATER, S., Garwood, N., BATEMAN, R., PENN, M., Bol, N. & Quiroz, V.** 2005. *The Chamaedorea (xaté) resource of the Chiquibul, Sibun, Manatee and Colombia Forest Reserves: a preliminary assessment*. Report for the Belizean Xaté Technical Committee. 27p. Darwin Initiative.

**BRIDGEWATER, S., Garwood, N., Bateman, R., Penn, M., Bol, N. & Quiroz, V.** 2004. *Preliminary xaté resource inventory of the Chiquibul Forest Reserve*. Report for the Belizean Xaté Technical Committee. 11p. Darwin Initiative.

**BRODIE J.** (2005). *Report on the workshop on the future of phycology held at the Natural History Museum on the 9<sup>th</sup> November 2004*. 46p (including appendices).

**BRODIE J.** (2004). *Macroalgae of the Northeastern Caspian*. (Identification guide of the algae for the other scientists, especially the Kazakhs, involved in the Caspian Sea work.) The Natural History Museum, Department of Botany, London. 12p.

**CARINE, M. A.** 2004. *An expedition to northern Morocco to investigate the taxonomy and evolution of the cultivated ornamental Convolvulus sabatius Viv. and its close relatives, 8th—18th June, 2004*. 33p. Report for the Royal Horticultural Society.

**CREWE, A. T., PURVIS, O. W. & Wedin, M.** 2004. Molecular phylogeny and iron fixation in rusty-coloured *Acarospora* species. pp.70. In: Wedin, M., Hawksworth, D. L. & Heidmarsson, S. (eds), *Session 1. Systematics and Evolution. Posters. Abstracts of the 5<sup>th</sup> IAL Symposium. Lichens in*

*Focus*. The 5<sup>th</sup> Symposium of the International Association for Lichenology held in Tartu (Estonia), 16-21 August 2004. University of Tartu.

**DAVIES, L.** 2004. *A study of the Lichens of London under Contemporary Atmospheric Conditions*. Thesis submitted in partial fulfillment of the requirements for the degree of Doctor of Philosophy, University of London. Department of Environmental Science and Technology, Imperial College London. June 2004.

**DAVIES, L.** 2004. A study of the Lichens in London in Response to Contemporary Atmospheric Conditions (2002-2003). *Book of Abstracts. 30<sup>th</sup> Meeting of Committee on Air Pollution Effects Research, Newcastle, 5-7 April 2004*. Centre for Ecology and Hydrology.

**DAVIES, L., Bates, J. W., Bell, J. N. B., JAMES, P. W. & PURVIS, O. W.** 2004. A study of the lichens of London under contemporary atmospheric conditions (2002-2003). pp. 70. In: PURVIS, O. W., Seaward, M. R. D. & Loppi, S. (eds), *Session 6. Lichen Uses. Posters. Abstracts of the 5<sup>th</sup> IAL Symposium. Lichens in Focus*. The 5<sup>th</sup> Symposium of the International Association for Lichenology held in Tartu (Estonia), 16-21 August 2004. University of Tartu.

**Evans N. J., TITTLE I., Robbins R. S., Bamber R. N., Smith B. D., Spurrier C. J., RUMSEY F. J., PAUL A. M., HAYES, P. & Ferrero, T. J.** 2004. *Rivers Field Development onshore pipeline environmental recovery monitoring programme, autumn 2004*. 62p + appendices. Report for Burlington Resources.

**LARSEN, R. S., Bell, J. N. B., Chimonides, P. J., JAMES, P. W., PURVIS, O. W., RUMSEY, F. & Tremper, A.** 2004. Impact of current atmospheric conditions on epiphytic lichens and bryophytes in London. pp.68. In: PURVIS, O. W., Seaward, M. R. D. & Loppi, S. (eds), *Session 6. Lichen Uses. Oral presentations. Abstracts of the 5<sup>th</sup> IAL Symposium. Lichens in Focus*. The 5<sup>th</sup> Symposium of the International Association for Lichenology held in Tartu (Estonia), 16-21 August 2004. University of Tartu.

**LARSEN, R. S., WOLSELEY, P. A.** 2004. Site condition monitoring with twig epiphytes. Poster presentation. *Book of Abstracts. 30<sup>th</sup> Meeting of Committee on Air Pollution Effects Research, Newcastle, 5-7 April 2004*. Centre for Ecology and Hydrology.

**LARSEN, R. S., WOLSELEY, P. A., Søchting, U. & Chimonides, P. J.** 2004. Site condition monitoring with twig epiphytes. pp.72. In: PURVIS, O. W., Seaward, M. R. D. & Loppi, S. (eds), *Session 6. Lichen Uses. Posters. Abstracts of the 5<sup>th</sup> IAL Symposium. Lichens in Focus*. The 5<sup>th</sup> Symposium of the International Association for Lichenology held in Tartu (Estonia), 16-21 August 2004. University of Tartu.

**Pitcairn, C. E. R., Leith, I. D., Shepperd, L. J., Dijk, N. V., Tang, Y. S., WOLSELEY, P. A., JAMES, P. W. & Sutton, M. A.** 2004. Appendix 1. Field inter-comparison of different bio-indicator methods to assess the impacts of atmospheric nitrogen deposition. In: Sutton, M. A., Pitcairn, C. E. R. & Whitfield, C. P. (eds), *Bioindicator and biomonitoring methods for assessing the effects of atmospheric nitrogen on statutory nature conservation sites*. Report for contract no F90-01-535. JNCC Report 356: 141-181.

**Pitcairn, C. E. R., Leith, I. D., Shepperd, L. J., Smart, S., Mitchell, R. J., WOLSELEY, P. A., JAMES, P. W., PURVIS, O. W., Fowler, D. & Sutton, M. A.** 2004. Appendix 2. Datasheets of bio-indicator methods for atmospheric nitrogen concentrations, deposition and impacts. In: Sutton, M. A., Pitcairn, C. E. R. & Whitfield, C. P. (eds), *Bioindicator and biomonitoring methods for assessing the effects of atmospheric nitrogen on statutory nature conservation sites*. Report for contract no F90-01-535. JNCC Report 356: 182-230.

**PURVIS, O. W.** 2004. *London's Environment & Future Conference (LEAF 3). The Natural History Museum, 1st November 2004.* 20p. Conference Delegate Pack.

**PURVIS, O. W. & HAYES, P.** 2005. *Burnham Beeches Lichen Monitoring. 2004.* Report for Corporation of London.

**PURVIS, O. W., Gough, P. & Read, H.** 2004. 15 Year's Monitoring Air Quality at Burnham Beeches cSAC. pp.19. Poster Presentation. Abstracts. *London's Environment and Future Conference (LEAF 3). The Natural History Museum, 1 November 2004.*

**PURVIS, O. W., Bailey, E. H., McLean, J., Kasama, T. & Williamson, B. J.** 2004. Uranium biosorption by the lichen *Trapelia involuta* at a uranium mine. Abstract Volume. *Speciation and Toxicity*. A two-day discussion meeting sponsored by The Environmental Mineralogy Group, the Applied Mineralogy Group and the Geochemistry Group of the Mineralogical Society, the Society of Environmental Toxicology and Chemistry (SETAC), the Geochemical Society and CAMLAB. 13th and 14th September 2004, The Research School of Earth Sciences at UCL-Birkbeck, South Wing, UCL, London WC1E 6BT. 38p.

**PURVIS, O. W., Chimonides, P. J., Jeffries, T. E., Jones, G. C., Read, H. & Spiro, B.** 2004. Investigating biogeochemical signatures in the lichen *Parmelia sulcata* at Burnham Beeches, Buckinghamshire, England. Oral presentation. *Book of Abstracts. 30th Meeting of Committee on Air Pollution Effects Research, Newcastle, 5-7 April 2004.* Centre for Ecology and Hydrology.

**PURVIS, O. W., Chimonides, P. J., Jeffries, T. E., Jones, G. C., Read, H. & Spiro, B.** 2004. Investigating biogeochemical signatures in the lichen *Parmelia sulcata* at Burnham Beeches, Buckinghamshire, England. pp.37. Abstract Volume. *Speciation and Toxicity*. A two-day discussion meeting sponsored by The Environmental Mineralogy Group, the Applied Mineralogy Group and the Geochemistry Group of the Mineralogical Society, the Society of Environmental Toxicology and Chemistry (SETAC), the Geochemical Society and CAMLAB. 13th and 14th September 2004, The Research School of Earth Sciences at UCL-Birkbeck, South Wing, UCL, London WC1E 6BT.

**PURVIS, O. W., Chimonides, P. J., Jeffries, T. E., Jones, G. C., Mikhailova, I. N., Spiro, B. Weiss, D. & Williamson, B. J.** 2004. Lichen biomonitoring near Karabash Smelter Town, Ural Mountains, Russia, one of the most polluted areas in the world. Poster presentation. *Book of Abstracts. 30th Meeting of Committee on Air Pollution Effects Research, Newcastle, 5-7 April 2004.* Centre for Ecology and Hydrology.

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#### G – Electronic publications

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### B – Other books and monographs (including popular works)

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