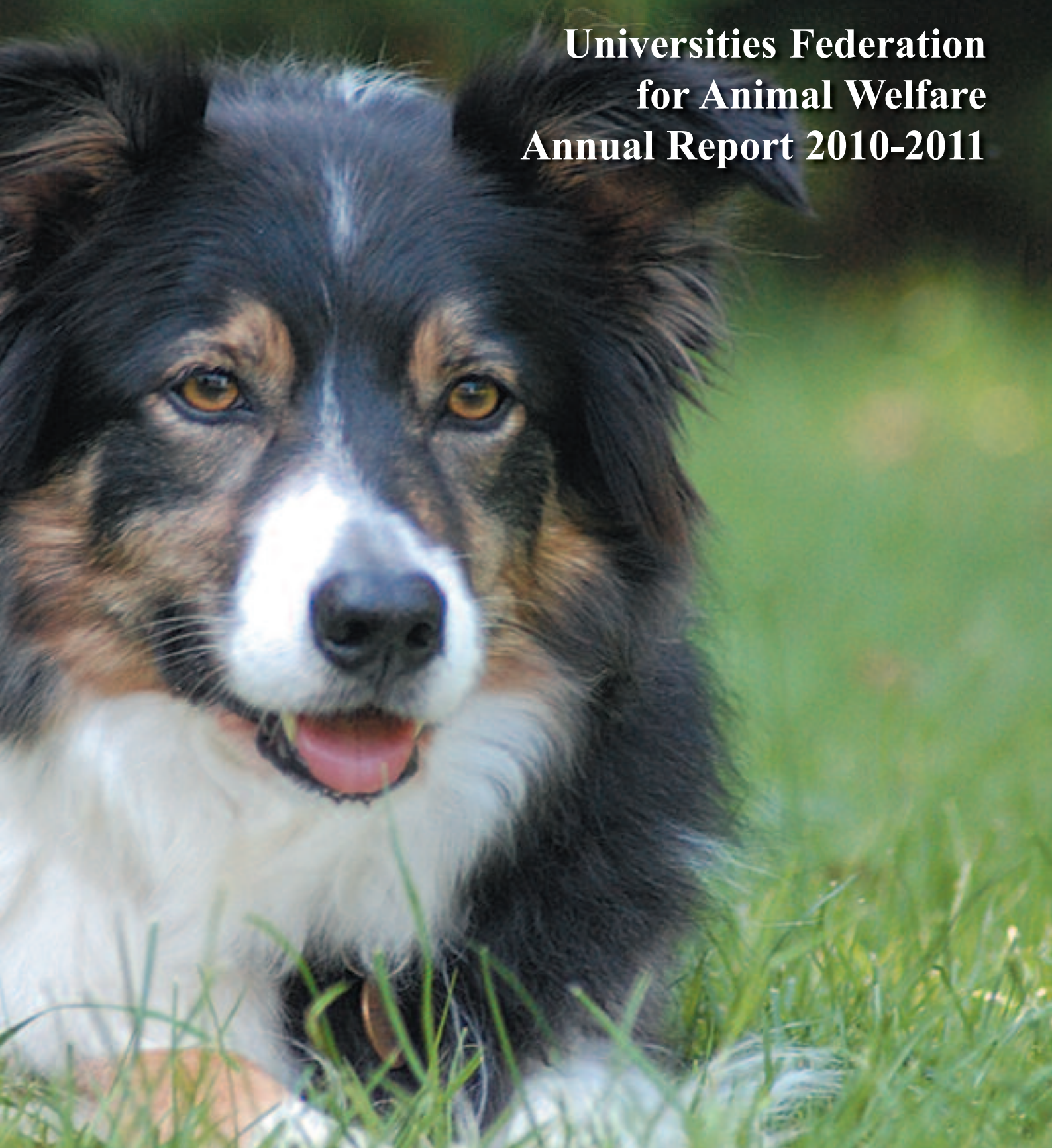


*Science in the Service
of Animal Welfare*

**Universities Federation
for Animal Welfare
Annual Report 2010-2011**



The Universities Federation for Animal Welfare

The Universities Federation for Animal Welfare, founded in 1926, is an internationally recognised, independent, scientific and educational animal welfare charity concerned with promoting high standards of welfare for farm, companion, laboratory and captive wild animals, and for those animals with which we interact in the wild.

It works to improve animals' lives by:

- Promoting and supporting developments in the science and technology that underpin advances in animal welfare
- Promoting education in animal care and welfare
- Providing information, organising meetings, and publishing books, videos, articles, technical reports and the journal *Animal Welfare*
- Providing expert advice to government departments and other bodies and helping to draft and amend laws and guidelines
- Enlisting the energies of animal keepers, scientists, veterinarians, lawyers and others who care about animals

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Letter from the Chairman

It has been a pleasure in introducing this Annual Report for what has again been a busy and productive year in all areas of the charity's work.

It has been particularly striking this year that, through the full range of UFAW activities, the charity brings together, and synergises to the benefit of animal welfare, so many different individuals, organisations, interests and endeavours. Highlighting this so well were the presentations of the new UFAW awards at the reception during this year's international symposium in Portsmouth. On board HMS Warrior where the reception was held were many of the more than 250 delegates and speakers from around the world representing a wide range of organisations and interests, recognising the outstanding work and achievement of UFAW Medal winner, 'veteran' animal welfare scientist Professor Ian Duncan, and the remarkable achievements in many different welfare areas of those five young people winning or commended in the UFAW Young Animal Welfare Scientist of the Year Award. There was a strong sense of just how far animal welfare science had come in a relatively short time and its potential for the future – and it is pleasing that UFAW has such an important and successful role in this.

The International Symposium was a great success, as has come to be expected of such UFAW meetings, with an excellent range of speakers, topics and delegates, terrific venue and thorough organisation. Congratulations to everyone involved.

Reaching out to a more public audience is the growing UFAW website on genetic welfare problems in companion animals, those diseases and conditions resulting from breeding practices. The purpose of this site is to better inform prospective pet buyers in their choice of breed and breeder in order to help reduce the incidence of such problems. This is a very large and ongoing undertaking – included to date are over 100 conditions relating to 42 dog breeds and six cat breeds amongst others, all comprehensively described, with many more to be added.

I thank our members, supporters and staff, and the many individuals and organisations around the world, who come together in and through UFAW to advance the charity's work and the welfare of animals.

Mike Radford



Chief Executive's Report

UFAW's origin was at a meeting, 85 years ago, on 12th February 1926 at the University of London. The message, to encourage the use of science for animal welfare, and the studious way it was pursued - with diligence and energy but without clamour (a somewhat paradoxical mix even in those days) – gradually attracted wider interest and, in due course, it became a federation of university animal welfare groups – hence its name. Initially the universities and colleges involved were all within the UK but it is very pleasing that, over the years, links have been established ever more widely across the globe. As far as it is able to, UFAW supports animal welfare science anywhere in the world. Its 'William Russell Research Fellowship' is currently supporting research in the USA and, increasingly, UFAW student scholarships are being applied for and won by students outside the UK.

The principles and, to a considerable extent, even the particular problems of animal welfare, are the same from North to South and East to West, and new and valuable scientific approaches and methods for assessing welfare and tackling problems apply equally wherever they are relevant. UFAW's journal *Animal Welfare*, now in its 21st year, attracts manuscripts from around the world (the papers published in 2010/11 were from 26 countries), and UFAW's wise and far-sighted founder Major Charles Hume (1886-1981) would have been very delighted also that the Symposium held in June 2011 was attended by delegates from far and wide.

UFAW's activities (illustrated with examples in this report) depend on large, and usually international, networks of people who support and work with the charity. We are very grateful to everyone in this community.

James K Kirkwood

UFAW Medal for Outstanding Contributions to Animal Welfare Science

The 2011 UFAW Medal for Outstanding Contributions to Animal Welfare Science, recognises exceptional achievements of an individual scientist who has made fundamental contributions to the advancement of animal welfare over a number of years. This award is open to individuals, anywhere in the world, whose research, teaching, service and advocacy has significantly benefited the welfare of animals.

UFAW was delighted to make this award to Professor Ian Duncan of the University of Guelph - one of the founders of the new wave of animal welfare science that was partly stimulated by the 1965 'Brambell' Report on 'The assessment of pain and distress in animals'. He has had a highly productive career and his work has been very influential. He is well-known for promoting the idea that welfare is about animals feelings. Georgia Mason wrote of his 1972 paper, with David Wood-Gush on thwarting of feeding behaviour in the domestic fowl: 'this showed that frustration could be experimentally induced, manipulated, modified with anti-anxiety compounds and has repeatable effects that resemble those seen in typical intensive housing situations. This paper exemplifies one of approximately half a dozen by Ian Duncan that revolutionised the study of poultry behaviour: inspired students and imitators around the world; and ultimately helped lead to the EU ban on battery cages.'

The UFAW Medal was presented to Professor Duncan by Professor John Webster at the reception held on board HMS Warrior during UFAW's International Symposium in Portsmouth in June 2011.

Young Animal Welfare Scientist of the Year Awards 2011

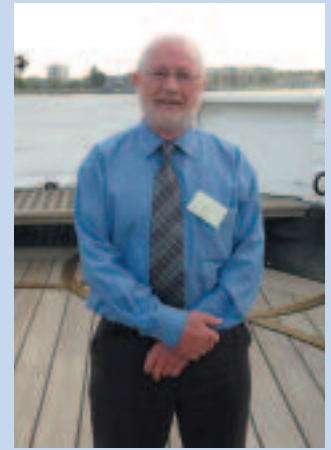
Introducing these awards at the reception on HMS Warrior at the UFAW Symposium in Portsmouth, James Kirkwood feared that they may be politically incorrect or illegal (as everyone is equally young nowadays) but, nevertheless, went on to explain that they are to recognise the achievements of those who have made significant contributions to improving the welfare of animals. They are open to postgraduate students, anywhere in the world, who are currently studying for a doctoral degree or who are in post-doctoral work within 6 years of their PhD.

The standard of applications was extraordinarily high. Two candidates were highly commended:

Laura Fox-Clipsham, PhD student at the Animal Health Trust in the UK for her work investigating the genetic defect that causes the inherited disease of Foal Immunodeficiency Syndrome (previously known as Fell Pony Syndrome). Thanks to her work there is now a test for detecting carriers of this disease (and it turns out that 40% of Fell and 10% of Dales ponies are carriers), so this disease can now be avoided and, in time, eliminated through selective breeding.

Dr Kristen Walker of the University of Calgary, Canada for her PhD work at the University of British Columbia, Canada, into pain associated with marking methods used in ecological studies of free-living Steller's sea lions. Her work on effects of abdominal surgery and hot-iron branding stressed the significance of developing less invasive methods and pain management protocols. As pressures on wildlife grow, research relevant to ecology and conservation often becomes essential but ways have to be found to minimise any adverse welfare effects.

On board HMS Warrior, Portsmouth Historic Dockyard, for the awards presentations: Professor Ian Duncan (right); Lucy Asher, Lisa Collins and Emma Baxter (left to right below) with Professor Duncan and Dr James Kirkwood of UFAW.



This year there were three winners:

Dr Lucy Asher, Lecturer at Nottingham School of Veterinary Medicine and Science. Lucy's PhD research at Newcastle University was into the welfare of captive starlings – involving methods of quantifying repetitive behaviours. More recently she worked in a BBSRC funded post at the Royal Veterinary College on projects at London and Bristol including welfare of chickens and pedigree dogs and continued her studies on mathematical approaches for describing behaviour.

Dr Emma Baxter, Research Scientist at the Scottish Agricultural College. Amongst other things, Emma has made two important and internationally-recognised contributions to the farrowing crate issue. Her PhD into piglet mortality in non-farrowing crate systems showed the potential for genetic selection in tackling this problem. And, in her first post-doc post she has made great progress in developing and designing the non-crate system known as PIGSAFE and has worked with industry to encourage uptake.

Dr Lisa Collins, Lecturer at the Queens University of Belfast. Lisa undertook her PhD studies into welfare aspects of stocking densities of broiler chickens at Oxford University. After completing her PhD she took up a research fellowship at the Royal Veterinary College and is now lecturer in Animal Behaviour at Queen's University, Belfast. Her main research interests since completing her PhD have been (i) developing statistical tools for welfare assessment and (ii) the welfare issues associated with dog breeding. She and Lucy Asher were authors of a paper published in the *Veterinary Journal* on inherited defects in pedigree dogs which has been in the top 10 most downloaded papers in that journal since its publication.

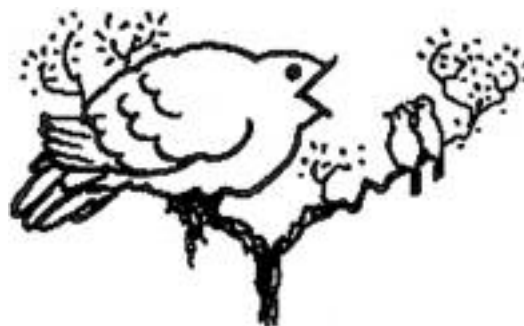
Emma, Lisa and Lucy were presented with their awards by Professor John Webster.

UFAW International Symposium 2011:

Making animal welfare improvements: Economic and other incentives and constraints

Delegates from over 20 countries gathered in the Historic Dockyards, Portsmouth at the end of June to listen to a range of talks considering incentives and constraints to making animal welfare improvements.

Professor Peter Sandøe (University of Copenhagen) outlined the challenge, highlighting the fact that whilst much work has been carried out over the last twenty years to better identify welfare problems facing animals and the means of addressing these, there were still difficulties in prioritising welfare issues. His argument,



which was echoed by Dr Dominic Moran (Scottish Agricultural College) was that economics was the way to solve this dilemma. Through adopting such an approach, he suggested, it would be possible to better realise that the best possible deal is reached for all stakeholders – animals, producers, users/consumers – within budgetary restrictions. This is because an approach based on economics encourages a structured and transparent discussion of priorities (including the priorities of the animals), forces stakeholders to be explicit about costs and to identify what ‘end points’ would constitute successful implementation of measures to improve welfare.

Professor Linda Keeling (Swedish University of Agricultural Sciences) discussed how, when designing animal welfare policies for countries and/or for different sectors of animal use, the ability to identify their stage of animal welfare policy development was key. This was because it allowed for the most effective policy to progress to the next stage of development to be selected alongside appropriate indicators of their effective implementation. Central to this, Professor Keeling noted, was the use of animal-based (outcome) indicators to confirm that policy initiatives were having the desired improvements to welfare.

Other speakers, including Dr David Main (University of Bristol) and Dr Alistair Stott (University of Edinburgh), expanded on such themes and gave practical examples of situations in which improvements could easily be made because they benefited both producer and the animal (so called ‘win-win’), and others where progress would be difficult (‘win-lose’) or undesirable (‘lose-lose’).

One of the other themes that emerged from the meeting was the constraint to welfare improvement of ‘cognitive dissonance’, in which the problem and means of addressing it are known but where there is a failure to implement the solution. Examples of this dissonance were discussed in relation to lameness in sheep (Professor Linda Green, University of Warwick) and the serious

At the UFAW International Symposium, Portsmouth Historic Dockyard: (left to right) evening reception on board HMS Warrior; Dr David Bayvel, Director Animal Welfare, Department of Agriculture and Forestry New Zealand; time to network; Professor Ian Duncan, University of Guelph, Canada; Professor Peter Sandøe, University of Copenhagen, Denmark.



breathing difficulties, and associated welfare problems, known as Brachycephalic Airway Obstruction Syndrome, faced by certain breeds of dog with greatly foreshortened muzzles such as the English Bulldog, Pug, and Boston Terrier. In both examples, the speakers suggested that the problem was not addressed as effectively as one might expect because of the view that it is perceived as ‘normal’ for the affected animals.

In addition to these, a range of other thought-provoking issues were raised by over 50 speakers and poster presenters. UFAW would like to thank all those who attended and contributed to the meeting and helped to make it the success it was. Plans are already in hand for the next UFAW meeting, in York on the 21st June 2012, and to explore the possibility of holding a 2-3 day meeting outside the UK in 2013 or 2014.

Abstracts of all the oral and poster presentations at the meeting can be found on the UFAW website (www.ufaw.org.uk/UFAWSYMPOSIUM2011.php). The proceedings will be published in *Animal Welfare* in 2012.



The welfare of animals under human care depends upon:

- Belief in the sentience of the animals
- Understanding that this is morally important
- Having proper knowledge of the animals' needs
- Having the ability and resources to meet these needs
- Applying these beliefs, abilities and resources conscientiously

UFAW's efforts are focused largely at the third of these points – improving knowledge of animals' needs. It is now accepted widely, although it was not always so, that a broad range of species of animals are sentient – that is, that they have the capacity to experience unpleasant and pleasant feelings.

For many species, including some companion and farm animals, knowledge of environmental and psychological needs and how these needs can be recognised and met – minimising unpleasant and maximising pleasant feelings – remains less complete than is often assumed, and a great deal of both fundamental and applied research remains to be done in these areas.

UFAW's varied grant schemes to fund animal welfare science allow us to support projects ranging from small pilot studies through to high quality post-doctoral research. It has often been difficult for scientists to obtain funding in animal welfare science, but our efforts, with your generous support, have helped to educate and support a growing number of highly respected animal welfare scientists who not only carry out the necessary research but are a source of expert advice to individuals, institutions and Government.

A few UFAW-funded projects are outlined here to demonstrate the Federation's current research interests.

Research

Professor William Russell Fellowship

UFAW established this Fellowship in memory of Professor William Russell, who with Rex Burch published their UFAW work on 'The Principles of Humane Experimental Technique' in 1959.

Professor Joe Garner of Purdue University, USA is the recipient of this award and is researching the housing of mice with relation to temperature. Mice used in research are typically housed at ambient temperatures of between 20-24°C which is below their thermoneutral range. In a recent paper Joe and his colleagues showed that when housed in typical temperatures, mice modify their nest to improve its thermal qualities. Despite their ability to do this, mice with access to nesting material still preferred a temperature of 30°C when given the choice.

2011 Animal Welfare Research Training Scholarship

UFAW has awarded its eighth Animal Welfare Research Training Scholarship to Alastair Cockburn. Alastair will take up his position in October and will be studying under Mike Mendl, Professor of Animal Behaviour and Welfare at the School of Veterinary Science, Bristol. The aim of Alastair's research is to develop methods to detect subtle indications of pain in dogs suffering from the genetic conditions syringomyelia and osteoarthritis (see the UFAW website which has a database of information for prospective buyers to help reduce the incidence of these conditions in dog breeds). Dogs with syringomyelia and osteoarthritis may be suffering chronic pain, but detecting whether or not this is the case can be difficult as the signs displayed by the dogs are often subtle. A further aim of Alastair's project is to investigate the relationship between any signs of chronic pain and indicators of negative mental states (using cognitive bias methodology), so as to determine whether the signs are indications that the dogs are actually experiencing pain or are merely responses to nociception (pain pathways and responses that do not involve conscious emotional experiences). Hence this work builds on previous ground-breaking research by UFAW Scholar



Emma Harding who, under Mike Mendl's supervision, developed the use of the cognitive bias in animal welfare research.

UFAW 3Rs Liaison Group Refining cancer studies by assessing the welfare of laboratory mice

Claire Richardson is now approaching the end of her PhD study as a UFAW 3Rs Liaison Group student at Newcastle University where she has been investigating how to improve the welfare of mice used in cancer research. Mice are the animals most frequently used for studying cancer. In 2009 just over 430,000 animals were involved in cancer studies within the UK and of these, over 96% were mice. Claire has been developing methods to identify which cancer models may be associated with pain or distress and when these negative states might occur. She has been using an automated home-cage monitoring system that allows the mice to be studied intensively, but undisturbed, in their normal social environment. As expected, Claire's studies have shown differences in morphine-seeking behaviour between mice with various types of cancer such as bladder, subcutaneous and intramuscular tumours. These and other data collected by Claire will be valuable in informing decisions regarding better methods to reduce the pain experienced by these animals.

Searching for replacements for animal use in emetic research

Stephen Robery continues his PhD research on the possibility of using *Dictyostelium discoideum*, a soil-living amoeba, to screen drugs for any nausea inducing side-effects. The need for this research is to avoid use of sentient animals to screen for emetic liability. Stephen and his co-workers have submitted a paper to Plos One, in which they suggest that while their results indicate that

Dictyostelium has limited utility in identification of emetic agents in general, it appears that *Dictyostelium* has potential as a non-sentient model in the analysis of the molecular effects of taste agents.

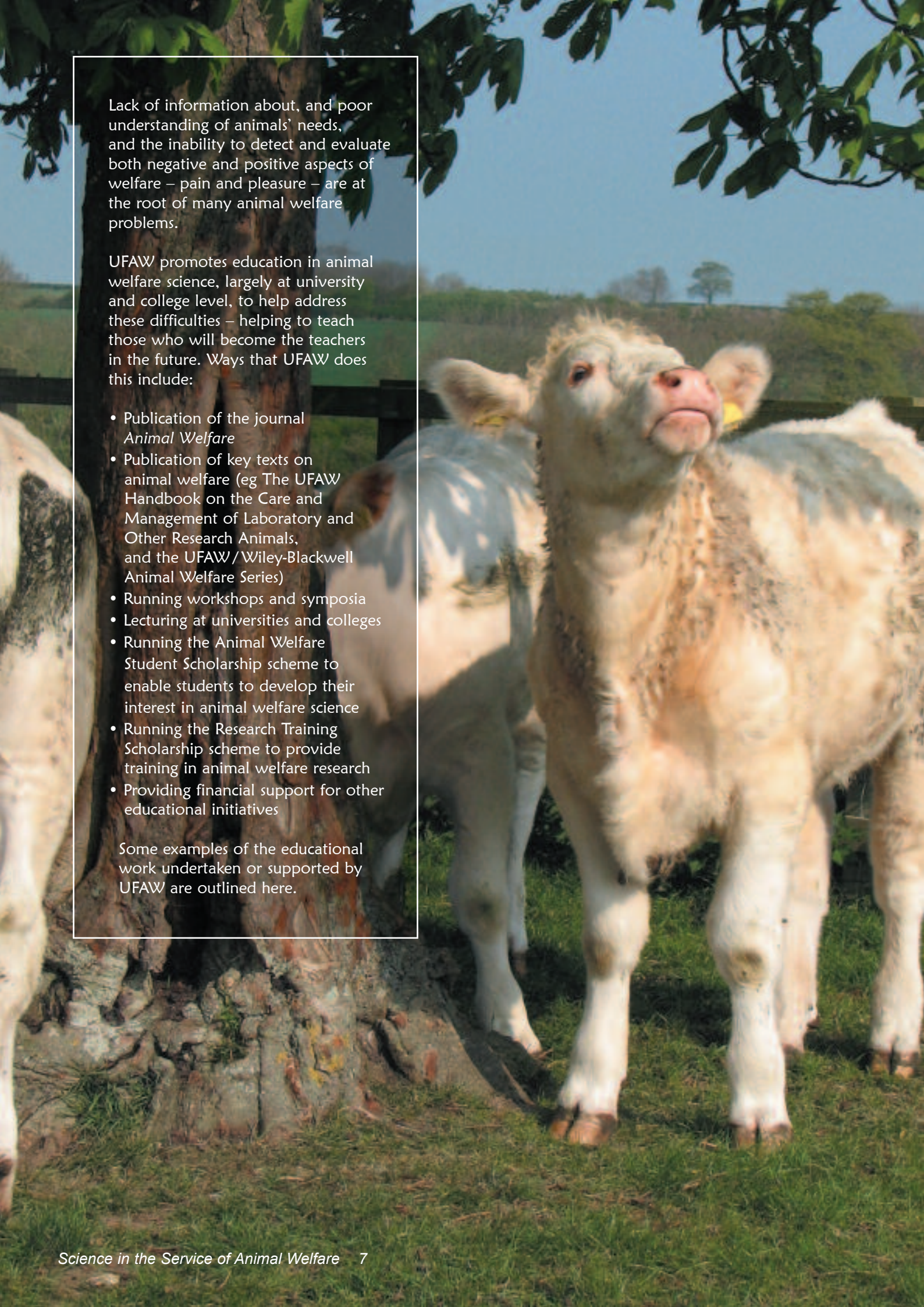
Small Project and Grant Awards

UFAW seeks to advance the welfare of animals through supporting young researchers. Two students who received funding in 2011 were Ms Hazel Stewart, University of Glasgow, and Ms Katharine Evans, University of Nottingham. Ms Stewart received support to present her work on feline leukaemia virus (FeLV) at an international meeting on retroviruses. She hopes that her research will, in the long term, contribute to a more efficient vaccine for cats against this important virus. Ms Evans was awarded a grant to enable her to give an oral presentation of her work on Otterhound health and mortality at the Conference for



Research Workers in Animal Diseases, Chicago. The worldwide population of Otterhounds is small and in the UK Otterhounds are categorised as a vulnerable native breed by the UK Kennel Club. When a breeding population is small and has limited genetic diversity the risk of breed-specific inherited diseases is increased.

Ms Evans hopes that the results of her surveys, and an on-going longitudinal survey in combination with pedigree analysis, will enable Otterhound breeders to make more informed decisions about which dogs to breed from and so reduce the prevalence of inherited welfare problems.



Lack of information about, and poor understanding of animals' needs, and the inability to detect and evaluate both negative and positive aspects of welfare – pain and pleasure – are at the root of many animal welfare problems.

UFAW promotes education in animal welfare science, largely at university and college level, to help address these difficulties – helping to teach those who will become the teachers in the future. Ways that UFAW does this include:

- Publication of the journal *Animal Welfare*
- Publication of key texts on animal welfare (eg *The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals*, and the *UFAW/Wiley-Blackwell Animal Welfare Series*)
- Running workshops and symposia
- Lecturing at universities and colleges
- Running the Animal Welfare Student Scholarship scheme to enable students to develop their interest in animal welfare science
- Running the Research Training Scholarship scheme to provide training in animal welfare research
- Providing financial support for other educational initiatives

Some examples of the educational work undertaken or supported by UFAW are outlined here.

Education

Farm Handbook: Management and Welfare of Farm Animals

The fifth edition of the UFAW Farm Handbook 'Management and Welfare of Farm Animals' has been published as part of the UFAW/Wiley-Blackwell Animal Welfare series.

The aim of this book is to promote the humane treatment of farm animals within the practical business context of modern farming. It is largely aimed at large-scale production on commercial farms but also covers alternative farming methods and smaller-scale units such as hobby farms. The handbook has been edited by the acknowledged expert in the field, Professor John Webster, and has been written by an impressive array of farm animal welfare specialists. We are very grateful to John and his team for this excellent new edition of the handbook.

This is essential reading for veterinary students and those involved in developing or improving standards of welfare for farm animals. UFAW members are entitled to purchase the book from the publishers at the a discount price of £32.75.

Support for educational initiatives

UFAW supported a number of educational initiatives during the year, including a symposium on applied exotics and wildlife medicine organised by the Cambridge University Veterinary Zoological Society (CUVZS).

Exotic animals are increasingly being kept as pets in the UK and the two-day symposium sought to help disseminate information to veterinary professionals and students on the care and treatment of exotics, and included talks from experts in the field and practical, hands-on sessions.

A further activity in the field of exotic animal welfare that received support from UFAW was the Bio-Ken 7th International Snakebite Seminar. UFAW provided funds for two speakers, John and Margaret Cooper, to present on the ethical, legal and veterinary considerations when keeping and handling reptiles.

The UFAW website on genetic welfare problems in companion animals

This new website (at <http://www.ufaw.org.uk/geneticwelfareproblems.php>), which provides information for prospective pet owners and for breeders on the welfare effects of disease conditions due to selective breeding in companion animals, was launched in April 2011. It has grown very rapidly since work started on it in earnest during the year. It already includes information on genetic diseases of 42 breeds of dogs and 7 breeds of cats, and also of some rabbits and fish. In total over 100 descriptions (of one condition in one breed) are now included, equivalent to quite a sizeable book of about 200,000 words, and it is growing at a rate of about 3 new descriptions a week. We are grateful to David and Rosie Godfrey for collecting and compiling much of the material and to everyone else who has contributed to the project (contributors are acknowledged at the site).

Feedback has been very positive. We hope to be able to continue to expand and improve this web resource and are seeking funds for this purpose.

LASA/UFAW Joint meeting

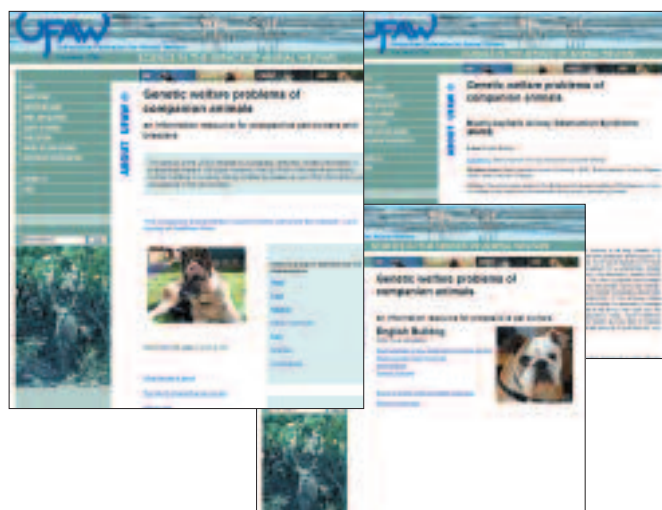
In June 2011 UFAW co-organised, with LASA, a meeting on refinement of procedures and husbandry relating to the use of animals in research, although other aspects of the 3Rs were also discussed.

Over 50 veterinarians, scientists, technicians and representatives of the Home Office Inspectorate attended. Papers were given on the assessment of animal suffering and on ways of improving the welfare of a wide range of species in the research environment. The meeting was judged to be a very useful means of spreading best practice and updating professionals in this field. A full report has been published in the summer 2011 issue of LASA Forum, pages 14-16. UFAW joins LASA in thanking GSK for providing the venue.



At the Bio-Ken 7th International Snakebite Seminar, John Cooper demonstrates how to handle a house snake (far left). Close-up of a puff adder (left).

Participants at the CUVZS Symposium's practical workshops.



UFAW Animal Welfare Student Scholarships

The reconfigured vacation scholarship awards continue to prove popular. In February UFAW received a strong set of research proposals from university students keen to carry out research projects of up to eight weeks on a subject related to better understanding or improving the welfare of animals. As usual, it was a difficult job to decide between these but the following were eventually selected to receive the 2011 UFAW Animal Welfare Student Scholarships. Congratulations to them all.

Congratulations to the successful 2011 UFAW Animal Welfare Student Scholars:

Ms Aisling Creed: 'Moral reasoning in practicing veterinary surgeons', under the supervision of Dr Dorothy McKeegan at the University of Glasgow.

Miss Hazel Evans: 'The effects of temperature and disturbance on breeding of wild great tit and blue tit species in nest box environments', under the supervision of Dr Nancy Harrison at Anglia Ruskin University.

Ms Mhairi Fleming: 'A behavioural study into dental pain in captive sun bears (*Helarctos malayanus*)', under the supervision of Dr Charlotte Burn at the Royal Veterinary College.

Ms Marianne Gansow: 'Comparing novel stabling methods to conventional methods with regards to equine welfare', under the supervision of Dr Mina Davies Morel at Aberystwyth University.

Miss Henrietta Gittins: 'An investigation into the immunological response to canine atopic dermatitis for diagnostic and therapeutic purposes', under the supervision of Dr Neil Foster at the University of Nottingham.

Mr Gavin Hawkins: 'Does the selective breeding of reptiles for specific colour mutations result in pleiotropic effects associated with welfare implications', under the supervision of Dr Jacqueline Boyd at Nottingham Trent University.

Miss Lynn Hewison: 'A change of visitor access policy to a dog rescue shelter: impact on kennelled dog welfare', under the supervision of Dr Sarah Ellis at the University of Lincoln.

Mr Bobby Hyde: 'Heart rate variability as a non-invasive assessment of pain and welfare associated with lameness in cattle', under the supervision of Dr Jon Huxley at the University of Nottingham.

Miss Stephanie Jayson: 'Feather plucking in the UK pet parrot population: an epidemiological study', under the supervision of Dr David Williams at the University of Cambridge.

Mr Thushan Kapurusinghe: 'Improving marine turtle welfare through research and training on turtle hatcheries in Kosgoda, Sri Lanka', under the supervision of Dr Ian Bride at the University of Kent.

Miss Katie Major: 'Effect of predictability of feeding schedule on the behaviour of *Monodactylus argenteus* in a public aquarium', under the supervision of Dr Philip Gee at the University of Plymouth.

Miss Lisa Morgans: 'Do high yielding cows exhibit signs of lethargy? Are they pushed to exhaustion or lay down simply because they do not need to move?' under the supervision of Dr David Main at the University of Bristol.

Mr Owain Rhys: 'Using endogenous markers for neurogenesis as biomarkers for long-term negative affect in broiler breeder chickens', under the supervision of Dr Tom Smulders at the University of Bristol.

Miss Clare Whalley: 'Toileting facilities for hospitalised canines: can astroturf improve the willingness of the dog to urinate?', under the supervision of Miss Louise Buckley at Harper Adams University College.

Ms Randy Do: 'The influence of bait and water provisions on shrew (*Soricomorpha soricidae*) mortality rates associated with small mammal live-trapping', under the supervision of Dr Andrew McAdam at the University of Guelph.

13th Annual Animal Welfare Student Scholars Meeting – University of Cambridge, 7th or 14th December 2011

We have received a very kind offer from Dr David Williams (UFAW link) and the University of Cambridge to host this year's UFAW Animal Welfare Student Scholars Meeting. Details are still being finalised but it is hoped that the one-day meeting will be held either on Wednesday 7th or 14th December at the School of Veterinary Medicine – and, it is probably worth adding after the snow related problems last year, weather permitting! These meetings, at which those who were awarded a UFAW student scholarship present a short talk and discuss their findings, are open to all and are always popular. In addition, those students who received Dorothy Sidley scholarships from our sister charity, the Humane Slaughter Association, in 2011 are also invited to talk about their work. We invite anyone with an interest in animal welfare – UFAW members, supporters, or others – to come along on the day to listen and engage with the scholars. Lunch and refreshments are provided to all those who let us know they are attending.

Anyone wishing to attend or who would like further details should contact Stephen Wickens, Development Officer (wickens@ufaw.org.uk).

UFAW SAWI Fund

The UFAW SAWI fund enabled Dr Eyal Klement of the Koret School of Veterinary Medicine of the Hebrew University of Jerusalem to attend the UFAW Symposium at Portsmouth in June.

Dr Klement, who is keen to establish an animal welfare group, found the meeting very valuable. He was able also, during his visit to the UK, to meet with Professor Christine Nicol at the University of Bristol Veterinary School to discuss animal welfare science.

Plans to fund a PhD research post in Animal Welfare Science at the Koret School of Veterinary Medicine in Israel are progressing.

The UFAW University 'LINK' Scheme

The UFAW 'LINK' scheme consists of a network of individuals at UK and overseas universities and colleges who, on UFAW's behalf, encourage interest and engagement in animal welfare science and distribute information on relevant UFAW activities, awards and meetings to their staff and students.

UFAW offers a small amount of funding in return and 'LINK' institutions use this in different ways. Some use it for regular seminar programmes and others to support guest lecturers at their institutions. In addition, members of non-UK universities that are part of the 'LINK' scheme benefit by being able to apply for awards such as the UFAW Animal Welfare Student Scholarships that otherwise are restricted to the UK.

The following short report from Dr Jonathan Amory, UFAW's 'LINK' at Writtle College, gives an example of what activities the scheme has supported at his institution during the 2010-11 academic year.

“Writtle College

In April, Writtle College, with assistance from the UFAW 'LINK' scheme, hosted the sixth 'Student Animal Welfare Conference'. This annual conference, which is for students attending Writtle, Hartpury and Moulton Colleges, featured talks and posters from undergraduate and postgraduate students at these institutions. The presentations covered a wide range of topics from all areas of animal welfare related to farmed livestock, horses, companion animals and zoo species. The plenary talk was given by Professor Don Broom of the University of Cambridge who spoke about 'Awareness in domestic animals and our obligations to them'.

Prizes were awarded on the day (with support from the 'LINK' scheme) and congratulations are extended to Harriet Stevens (Writtle College) for best oral presentation and Claire Parker (Moulton College) for best poster presentation.

In addition, Writtle used the 'LINK' scheme to support a prize that was awarded to the best BSc dissertation project in the field of animal welfare.”

We would like to thank Dr Amory and all the 'LINK' institutions for their efforts on behalf of UFAW and the assistance they give us. Further information about 'LINK' universities, their activities and the scheme as a whole can be found on the UFAW website.

UFAW is always looking to expand the 'LINK' network and is interested in hearing from anyone who feels that they may be able to help us in this way at their institution.



Professor Donald Broom (far right) with speakers at the Writtle College 'Student Animal Welfare Conference'.



Funding is needed for the Garden Bird Health Initiative

On the 11th July 2003, UFAW organised a workshop meeting to discuss welfare and conservation aspects of feeding garden birds. This was attended by interested individuals from the BTO, RSPB, Scottish Agricultural College, Institute of Zoology and the garden bird care industry, Liverpool University and elsewhere. It led to the formation of the Garden Bird Health Initiative the aims of which were to: (i) publish guidelines about how to best feed garden birds in order to maximize the benefits for their welfare and conservation and (ii) to undertake a health surveillance and research project. Thanks to very generous financial and other support from all involved (see <http://www.ufaw.org.uk/gbhi.php>) it has been possible to pursue these ambitions over the years since then. As the recent publications listed below indicate, the project has been an excellent collaboration, involving not just academic, industry, conservation and welfare organisations but also the thousands of members of the public who have been the eyes and ears of the surveillance throughout the UK. It has enabled, for example, detailed studies of emerging disease including trichomonosis in finches and avian pox in tits.

As anthropogenic pressures on the environment grow, what used to be 'the wild' is, and has to be, increasingly managed for wildlife. Studies of garden bird feeding and habitat management are important to inform the best methods, and it may be that what can be learned about this will be found to be relevant to wildlife management in other contexts also. It is a blow that it has not been possible to raise sufficient funds to enable the continuation of the full operation of this surveillance and research programme at the Institute of Zoology beyond March 2011. However, some work stemming from the project is continuing at the Institute of Zoology and efforts are still being made to raise funds.

Recent publications from the Garden Bird Health Initiative surveillance and research project:

Lawson B, Cunningham AA, Chantrey J, Hughes LA, John SK, Bunbury N, Bell DJ and Tyler KM (2011) A clonal strain of *Trichomonas gallinae* is the aetiologic agent of an emerging avian epidemic disease. *Infection, Genetics and Evolution* (In press).

Lawson B, Howard T, Kirkwood JK, Macgregor SK, Perkins M, Robinson RA, Ward LW and Cunningham AA (2010) The epidemiology of salmonellosis in garden birds in England and Wales, 1993 to 2003. *Ecohealth* 7:294-306. DOI 10.1007/s10393-010-0349-3.

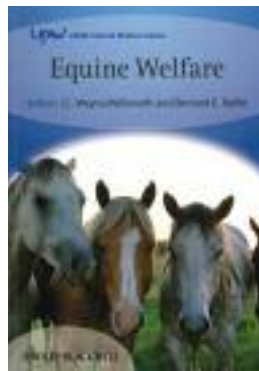
Lawson B, Hughes LA, Peters T, de Pinna E, John SK, Macgregor SK and Cunningham AA (2011) Pulsed-field gel electrophoresis supports the presence of host-adapted *Salmonella Typhimurium* strains in the British garden bird population. *Applied and Environmental Microbiology* (In press).

Lawson B, Robinson RA, Neimanis A, Handeland K, Isomursu M, Agren EO, Hannes IS, Tyler KM, Chantrey J, Hughes LA, Pennycott TW, Simpson VR, John SK, Peck KM, Toms MP, Bennett M, Kirkwood JK and Cunningham AA (2011) Evidence of spread of the emerging infectious disease, finch trichomonosis, by migrating birds. *Ecohealth* (In Press).

Robinson RA, Lawson B, Toms MP, Peck K, Kirkwood JK, Chantrey J, Clatworthy I, Evans A, Hughes L, Hutchinson OC, John SK, Pennycott TM, Perkins M, Rowley P, Simpson VR, Tyler K and Cunningham AA (2010) Emerging Infectious Disease leads to Rapid Population Decline of Common British Birds. *PLoS ONE*. <http://www.plosone.org/article/info:doi/10.1371/journal.pone.0012215>.

UFAW publications

There have been two new publications in the UFAW/Wiley-Blackwell Animal Welfare Science book series this year. John Webster's (2011) *Management and Welfare of Farm Animals* is mentioned on p8 of this Report. We are also very grateful to C Wayne McIlwraith and Bernard E Rollin and all the other authors who contributed chapters for their (2011) book on 'Equine Welfare'. Further details of these and other books in the series are at: <http://www.ufaw.org.uk/public-list.php>.



UFAW's journal, *Animal Welfare*, continues to grow and to be in demand also as a vehicle for publishing the proceedings of international conferences and workshops. It has been asked, in the coming year, to publish the proceedings of a WSPA/Defra international workshop on the ethics and welfare of whale/human interactions that was held at the Eden Project in Cornwall, UK in March 2011, and will also be publishing the proceedings of the 5th International Conference on Welfare Assessment at Farm and Group Level that is being held in Guelph, 8-11 August 2011.

New legislation to protect animals used in research

Following the adoption by the European Parliament and Council of the European Union of a new Directive regulating research using animals, the UK has until 10th November 2012 to transpose the provisions of the new Directive into UK legislation, and the majority of the provisions in the new Directive must be implemented in UK legislation by 1st January 2013. Consequently, at the time of writing, the Home Office is consulting as to how various provisions might be implemented.

UFAW staff have been closely involved in developing the housing and husbandry standards described in the new Directive and the new provisions should generally improve welfare standards in the Union. However, in order to achieve these advances, some pragmatic decisions had to be made, and there are instances where the new European standards fall below those currently used in the UK. A fundamental principle of European legislation is to ensure a level playing field across Europe. However, UFAW is concerned that this principle should not be used to reduce UK animal welfare standards and is responding to this effect in the consultation.

Amongst other issues, UFAW is in favour of maintaining many of the functions of the ethical review process that is currently carried out by research institutions and supports the formal status of the named Veterinary Surgeon within this process.

UFAW's activities, highlighted in this annual report, are dependent on the generosity and kindness of the charity's members and supporters – to whom we are most grateful. The charity spends very little on advertising and promotion and depends considerably on its members and supporters to assist with this by recommending the charity to others likely to share UFAW's commitment and philosophy. If you would like copies of this report to hand on to friends and relatives please let us know.

The annual membership subscription remains a modest sum at £10, or £5 for students. The value of donations made to the charity is maximised when given through the Gift Aid Scheme. Details of this and advice on how to make provision for the charity in a Will can be obtained from the Secretary and are also available on the website (www.ufaw.org.uk).

The charity is seeking to be able to support a more extensive programme of animal welfare research and education in the future.

Can you help?

Administration & Finance

Annual General Meeting 2010

The AGM was held at the Old School, Brewhouse Hill, Wheathampstead. As in previous years this was held in conjunction with the General Meeting of the Humane Slaughter Association and Council of Justice to Animals (HSA & CJA). The members of UFAW Council also act as Trustees for the HSA. Joint meetings are held to save time and money.

The notice convening the meeting had been sent to all subscribers and was taken as read. The meeting agreed the Minutes of the AGM of 2009 and resolved to receive the Accounts and Auditor's Report for the year ended 31st March 2010. There were no questions on the Report of the year's work and the meeting resolved that the Report and Accounts be received.

It was resolved that Anthony Joseph & Co, Registered Auditors, be appointed as auditors to UFAW and its associated Trusts and their remuneration should be fixed by Council.

The Chairman, Mr John Pratt and Trustee, Professor Vince Molony, were standing down from Council. There were two new candidates for election and in accordance with UFAW's Articles of Association Professor Alistair Lawrence and Mr David Pritchard were elected to Council. Dr James Anderson was re-elected.

Notice of Annual General Meeting 2011

The Annual General Meeting of the Universities Federation for Animal Welfare will be held at 2.00pm on Tuesday 11th October 2011 at The Old School, Brewhouse Hill, Wheathampstead, Hertfordshire (UFAW's office premises). The formal notice and agenda have been sent to all members and are available from the Secretary at the registered office.

Finance and Accounts

The summarised accounts set out overleaf have been extracted from the full accounts and have been prepared in accordance with the Companies Act 2006, which were approved by the Directors/Council and signed on its behalf on 12th July 2011.

The full accounts have been audited and the auditors' opinion was without qualification. The accounts will be filed with the Companies Registry and the Charity Commission after the annual general meeting on 11th October 2011.

Full accounts, and the audit report can be obtained from the Company Secretary, The Old School, Brewhouse Hill, Wheathampstead, Herts AL4 8AN.

Autumn Appeal

This year's Autumn Appeal is for support towards the UFAW 3Rs Liaison Group Research Studentship. Begun in 1998, the Studentship funds research that is likely to lead to practical solutions to advance the welfare of animals used in research. Recipients undertake a three-year programme of research leading to a degree at the doctorate level in any aspect of Replacement, Reduction or Refinement. The work of current students is described on p6 of this Report.

To date six Studentships have been awarded. Your support will help UFAW award a further Studentship in 2012.

Finance and Accounts

Summary of Financial Activity year ended 31st March 2011

	2010/11 £	2009/10 £
Incoming resources:		
Voluntary income		
Subscriptions & donations	32,022	26,531
Appeals	2,663	3,353
Legacies	249,478	685,320
Garden bird project	<u>32,124</u>	<u>23,433</u>
	<u>316,287</u>	<u>738,637</u>
Charitable activities		
Publications	62,735	61,018
Royalties & lecture fees	14,203	6,201
Symposium	<u>6,570</u>	<u>33,417</u>
	<u>83,508</u>	<u>100,636</u>
Investment income		
Interest bearing deposits	1,966	1,738
Securities	<u>124,371</u>	<u>139,299</u>
	<u>126,337</u>	<u>141,037</u>
Total incoming resources	<u>526,132</u>	<u>980,310</u>
Resources expended:		
Costs of generating funds	71,778	48,656
Charitable activities	377,380	388,395
Governance costs	3,000	2,946
Other resources expended	<u>166,242</u>	<u>173,371</u>
Total resources expended	<u>618,400</u>	<u>613,368</u>
Net (outgoing)/incoming resources for the year	<u>(92,268)</u>	<u>366,942</u>
Other recognised gains and losses:		
Net realised gain/(loss) on investments	231,935	(80,722)
Net income/expenditure for the year	<u>139,667</u>	<u>286,220</u>
Net unrealised gains/on investments	<u>192,367</u>	<u>970,280</u>
Net movement in funds	<u>332,034</u>	<u>1,256,500</u>
Balance brought forward	<u>6,468,857</u>	<u>5,212,337</u>
Balance carried forward	<u>6,800,891</u>	<u>6,468,857</u>

BALANCE SHEET as at 31st March 2011

	2010/11 £	2009/10 £
Fixed assets:		
Tangible fixed assets	584,254	596,940
Investments	<u>5,505,991</u>	<u>5,481,897</u>
	<u>6,090,245</u>	<u>6,078,837</u>
Current assets:		
Debtors	130,101	56,242
Term deposits at bank	770,587	620,792
Cash at bank & in hand	<u>25,465</u>	<u>22,468</u>
	<u>926,153</u>	<u>699,502</u>
Creditors:		
Amounts falling due within 1 year	<u>(143,255)</u>	<u>(171,023)</u>
Net current assets	<u>782,898</u>	<u>528,479</u>
Total assets less current liabilities	6,873,143	6,607,316
Creditors:		
Amounts falling due after more than 1 year	<u>(72,252)</u>	<u>(138,459)</u>
Net assets	<u>6,800,891</u>	<u>6,468,857</u>
Funds:		
Unrestricted	6,213,087	5,837,393
Designated	-	31,433
Restricted	<u>587,804</u>	<u>600,031</u>
	<u>6,800,891</u>	<u>6,468,857</u>

The summarised accounts were approved by Council and signed on their behalf on 12th July 2011



Mike Radford OBE LLB
Chairman



Michael T Bird FCA
Hon Treasurer

Independent Auditors' Statement to the Council of the Universities Federation for Animal Welfare

We have examined the summarised financial statements that comprise the summary statement of financial activities and summary balance sheet.

Respective Responsibilities of the Council and Auditors

You are responsible as the Council for the preparation of the summarised financial statements. We have agreed to report to you our opinion on the summarised financial statements' consistency with the financial statements, on which we reported to you on 12th July 2011.

Basis of Opinion

We have carried out the procedures we consider necessary to ascertain whether the summarised financial statements are consistent with the full financial statements from which they have been prepared.

Opinion

In our opinion the summarised financial statements are consistent with the full financial statements for the year ended 31st March 2011.



S Francis-Joseph FCCA, Senior Statutory Auditor, Anthony Joseph & Co, Registered Auditors, Stevenage, 12th July 2011

Universities Federation for Animal Welfare

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Registered in England Charity No. 207996

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I J Lean BSc PhD CBiol MSB
J H Pratt BVM&S DVSM FRCVS
G D Sales BSc PhD AKC MSB DipTCDHE
Professor R S Anderson BVMS PhD MRCVS
Professor P M Biggs CBE DSc DVM FRCPath CBiol
FSB FRS FRCVS
B R Howard BVMS PhD MRCVS

Council (who are the Directors of the Limited Company)

Chairman: J H Pratt BVM&S DVSM FRCVS*^Λ (to Oct 2010)
M Radford OBE LLB*^Λ (from Oct 2010)

Vice-Chairman: M Radford OBE LLB*^Λ (to Oct 2010)
L A Brown MBE BVSc BA PhD MBA FRCVS^Λ (from Oct 2010)

Honorary Treasurer: M T Bird FCA*^Λ

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Professor R M Bennett BSc MSc PhD
J Bradshaw BA PhD
B Cooper VN Cert DTM
Professor N Gregory BSc PhD
Professor A Lawrence BSc DipRurSci PhD (from Oct 2010)
Professor V Molony BVSc MSc PhD MRCVS* (to Oct 2010)
Professor A Nolan MVB DipECVA DipECVPT DVA
MRCVS*
D Pritchard BSc BVetMed MPH MRCVS (from Oct 2010)
A G Sains NDA CDA

*Member of the Grant Panel ^ΛMember of the Finance Panel

Staff

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& **Scientific Director:** James K Kirkwood OBE BVSc PhD CBiol FSB MRCVS

Deputy Scientific
Director: Robert C Hubrecht BSc PhD CBiol FSB

Scientific Officer: Elizabeth Carter BSc MSc

Development Officer: Stephen M Wickens BSc PhD

Editorial Assistant: Steven Weddell BSc BVSc MRCVS HND

Public Relations
& **Fundraising Officer:** Brian D Pemberton BA MA

Secretary: Donald C Davidson

Office Staff: Samantha Griffin
Wendy L Goodwin

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