

British Veterinary Zoological Society



Proceedings of the Autumn Meeting 2010

6th and 7th November, 2010

Village Hotel, Dudley

Recent Updates in Avian Medicine and Surgery

BVZS GUIDELINES FOR MEETING ABSTRACTS

PLEASE NOTE: *From the November 2007 meeting all abstracts and extended abstracts will be linked to CABI. This is an important step in helping the Society and members' work reach a wider audience. While the society encourages authors to include as much relevant data as possible, it is the author's own responsibility to restrict their data as necessary in order not to prejudice any future peer-reviewed publications they may have planned. While previous humorous biographies have been included, inline with the links with CABI, please adhere to the biography guidelines and keep these to a professional nature. At present BVZS meetings and abstracts are NOT peer-reviewed.*

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Title: Submission should include a title of not more than 15 words, and the names, qualifications and affiliation/ institution of each author.

Abstracts: Abstracts should be a minimum of 200 words, and a maximum of 750 words. A reference list may also be included. Abstracts, with references should not be longer than 1 page.

Extended Abstracts: These should be in the format: SUMMARY, INTRODUCTION, MATERIALS AND METHODS, RESULTS, DISCUSSION, REFERENCES; or if this is a case report or case series: SUMMARY, INTRODUCTION, CASE REPORT, DISCUSSION, REFERENCES. Review articles should preferably be in the format: SUMMARY, REVIEW, CONCLUSION. This may be altered depending on the reviews nature, but must include a SUMMARY and CONCLUSION. The text should be concise and should be a maximum of 2000 words, and not exceed 4 pages in length, including illustrations and references. The summary should not exceed 200 words.

Tables and illustrations: Tables should be kept to a minimum and should be created in Word. The legend should clearly explain what data the table is presenting, without the need to refer back to the text. Tables should not duplicate information presented in figures. Digital images should be GIF, TIFF, or JPEG files, at a minimum resolution of 300 dpi. Please label them to correspond with the list of numbered figure captions; for example 'Figure 3.jpg' or 'Figure 7B.jpg', etc.

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References: In the text, references should be cited as follows: Smith (1995) described.../...recorded earlier (Brown and Jones 1994, Smith and others 1997). Lists of references should be given in date order in the text, but alphabetically in the reference list. In the reference list, all authors' names and initials should be given followed by the date, title of the paper, full title of the journal, volume number and full page range, eg: SMITH, A. B., JONES, C. D. & BROWN, E. F. (1995) How to list your references. *Veterinary Record* xxx, 71-76. **Book references** should include the chapter title if appropriate, the full title of the book, the edition, the editors, the town of publication, publisher and page numbers of material referred to, eg: SMITH, A. B., JONES, C. D. & BROWN, E. F. (1993) How to list your references. In *Getting It Right*. 3rd edn. Eds S. Adams, J. Alexander. London, Society of Reference Publishers. pp 23-37. **Proceedings** should include the title of the paper given at the meeting, proceedings title, the editors (if applicable), town, country, month date a to b, year, and page numbers (if applicable), eg: MILLER, W. (1976) A state-transition model of epidemic foot-and-mouth disease. *Proceedings of an International Symposium: New Techniques in Veterinary Epidemiology and Economics*. Reading, UK, July 12 to 15, 1976. p 56. **Websites** should include the title of the page, website address and date accessed, eg: DEFRA (2001) Explanation of Foot and Mouth Restrictions. www.defra.gov.uk/animalth/diseases/fmd/disease/restrictions/explanation.asp. Accessed August 24, 2001. Personal communications should be cited within the text and follow the form 'A. B. Smith, personal communication'.

British Veterinary Zoological Society

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PROGRAMME

Main Sessions: Saturday (Parallel Sessions below)

08:00	Registration	
09:00	Welcome by BVZS President Victoria Roberts	
09.15	Plenary Speaker: Parrot behaviour, Jan Hooijmeier	12
10:30-11.15	Coffee	
11.15-12.45	Session One Internal medicine and reproduction Chair Mark Stidworthy <i>Preliminary findings for the serological diagnosis of ISD (Iron Storage Disease) in ramphastids: Tai Strike</i> <i>Diagnosing the dilated proventriculus: John Chitty</i> <i>Developments in proventricular dilation disease (30 min): Michael Lierz</i> <i>Avian Artificial Insemination – a useful tool, but not a panacea for treatment of avian infertility: Debra Bourne</i>	18
12.45-13.45	Lunch	
13.45-15.15	Session Two Nutrition (Kindly sponsored by Meadow's Animal Health) Chair Brian Stockdale <i>Metabolic Bone Disease in woodpigeons - improving triage procedures:</i> Michael Stanford <i>Feeding enrichment - not just ketchup: John Chitty</i> <i>Problems Encountered in the hand rearing of Black Storks (Ciconia nigra) & the subsequent development of an Avian Rearing Resource website: Peter Aylmer</i> <i>Analysis of vitamin levels in Hyacinth macaw eggs: Michael Stanford</i> <i>Hand rearing the Hooded Pitta (Pitta sordida mulleri) at London Zoo, a review of protocols: Joanne Phillips</i>	24
15.15-16.00	Tea	
16.00-17.30	Session Three Wild Birds Chair Neil Forbes <i>The impact of Trichomonosis on British finch populations: Becki Lawson</i> <i>Risk factors associated with the admission of avian wildlife casualty patients:</i> Marie Kubiak <i>Chlamydophila Psittaci infection in garden birds in England and Wales: Katie Colvile</i> <i>Treatment of casualty wild vultures: Michelle Barrows</i> <i>Mortality associated with immunosuppression and management in reintroduced ciril buntings (Emberiza cirilus) in England: Fieke Molenaar</i> <i>New and emerging infectious diseases of British Paridae: Becki Lawson</i>	33
<u>Parallel Sessions</u>		
11.15-12.45	B2B: Avian Anatomy and Physiology: student speakers; Steph Jayson, Ben Ayloshkin, Kevin Jones	42
13:45-15.15	B2B: Treating the pet chicken: Victoria Roberts	43
16:00-17:30	B2B: Endoscopy techniques: theory and practical: Michael Stanford	46
17:30 BVZS ANNUAL GENERAL MEETING		
20:00	Dinner and dancing at the Village Hotel, Dudley	

Main Sessions: Sunday

09:30-11.00	<i>Session Four Avian surgical pathology and cytology</i> Chair <i>Debra Bourne</i> <i>Disseminated visceral coccidiosis in Eurasian cranes: Michelle O'Brien</i> <i>Avian skin biopsy – a pathologist's perspective: Mark Stidworthy</i> <i>Marek's disease in backyard poultry - a quick clinical update: Julia Henken</i> <i>The avian respiratory system; a survey of pathological aspects (25 min):</i> Peer Zwart	51
11:00-11.30	Coffee	
11.30-13.00	<i>Session Five Surgery</i> Chair <i>Tai Strike</i> <i>Veterinary care of hornbills: Michelle Barrows</i> <i>Sedation of free ranging ostrich: Jane Hopper</i> <i>Management of avian pelvic long bone developmental abnormalities</i> <i>(30 min): Neil Forbes</i>	60
13:00-14.00	Lunch	
14:00-15.30	<i>Session Six Open</i> Chair <i>Katie Colvile</i> <i>Laparoscopic cryptorchidectomy in an adult reindeer: Romain Pizzi</i> <i>Methods of decision making regarding the euthanasia of a high profile animal</i> <i>in a zoological collection: Sarah Chapman (Hewitt)</i> <i>The use of competitive exclusion product Aviguard to exclude Enterococcus</i> <i>hirae in corncrake (Crex crex) chicks: Joanna Reynard</i> <i>The melanophore in amphibians and reptiles in health and disease: Peer Zwart</i>	65

Parallel Sessions

09:30-11:00	Veterinary nursing of birds: Carli Dodd	71
11.30-13.00	B2B Avian necropsies and cytology: Edmund Flach	72

15:30 - Prize Giving and Farewell

CPD Certificates will be issued: one day=7 hours, 2 days=14 hours

SPEAKERS

Benjamin Alyoshkin

Ben has BSc in Biology from Kaliningrad State University (Russia) and has completed 3 years at Liverpool. His first dissertation project (1998) was on the abundance and trends in the distribution of the corncrake (*Crex crex*) in the south-east Baltic region. In 2010 he conducted a retrospective study of the role of pulmonary intravascular macrophages in feline infectious peritonitis. He has participated in wildlife projects in Costa Rica and in 2010 he was awarded a Wellcome Trust scholarship to study canine cruciate ligament cells at Leahurst. Ben has been a year rep in the LUVZS for 3 years, organised the Annual Symposium in 2010 and is now a BVZS liaison rep. He is currently intercalating in veterinary pathology at the RVC.

Peter Aylmer

Peter has spent the majority of a long career in mixed practice in the Cotswolds, including the provision of veterinary services to The Cotswold Wild Life Park at Burford. He also acts for and provides consultancy services to several other smaller collections. He was awarded the Certificate of Zoological Medicine in 2002 and is a Secretary of State appointed Zoo Inspector.

Michelle Barrows

After graduating from Glasgow in 1998, Michelle worked in zoo and exotic pet practice gaining her RCVS Certificate in Zoological Medicine before moving to South Africa in 2003. She then spent 7 years enjoying life in the sun at the Johannesburg Zoo but recently returned to the UK to take up a new position as Head of Veterinary Services at Bristol Zoo. She is the veterinary advisor to the Wattled Crane Recovery Programme and in 2010 was the recipient of the African Association of Zoos and Aquaria Chairman's Award for her efforts to promote zoological medicine education within Africa.

Debra Bourne

Debra graduated from Cambridge University in 1992, went to the International Crane Foundation in Wisconsin as an aviculture intern in 1993, and completed her PhD on toxoplasmosis and other diseases in the Bennett's wallabies at Whipsnade Wild Animal Park in 1997. Since then she has worked for Wildlife Information Network (WIN) - now part of Twycross Zoo, East Midland Zoological Society, as a Veterinary Editor, producing *Wildpro* electronic encyclopaedia volumes on wild animal health and management, and emerging infectious diseases. More than 20 years of experience in non-domestic animal husbandry are very helpful when writing the "health and management" volumes. She has a particular interest in the relationships between natural history and behaviour, captive management, diseases and disease management.

Sarah Chapman (nee Hewitt)

Sarah qualified in June 2000 from the Royal (Dick) School of Veterinary Medicine and Surgery. She went into mixed practice in Lincolnshire then East Yorkshire where she also worked with exotics and wildlife. In September 2004 she began the Masters course in Wild Animal Health and completed her dissertation on the Mortality of Captive Gorillas (*Gorilla gorilla gorilla*). She then worked for the Scott Veterinary Clinic in Bedford where she gained her Certificate in Zoological Medicine and was part of the veterinary team at Woburn Safari Park. She is currently working at Paignton Zoo Environmental Park doing 100% zoo work with a large variety of large and small exotic animals.

John Chitty

John qualified from the RVC in 1990 and gained the Certificate in Zoological Medicine in 2000. After nearly two decades in private practice he now runs a solo mobile / peripatetic exotics-only service in Hampshire / Wiltshire. He is currently a Board Director of AAV and secretary to EAAV. He consults to five zoological collections and has co-edited two avian textbooks as well as contributing on a range of exotics-related subjects to many others. He is veterinary consultant to the Great Bustard reintroduction project.

Katie Colvile

Katie has worked as a wildlife veterinarian at the Institute of Zoology, Zoological Society of London (ZSL), since 2008. Her primary role is Project Co-ordinator for the Garden Bird Health *initiative* – a

national disease surveillance project. Whilst at ZSL she has also worked occasionally as a locum vet at ZSL London Zoo. Katie graduated from Cambridge Veterinary School in 2001 and worked in private (predominantly equine) practice until 2006. She gained the MSc in Wild Animal Health in 2007, completed an externship at the Dubai Falcon Hospital in 2008, and has volunteered on various other wildlife and equine welfare projects.

Carli Dodd

Carli is a qualified veterinary nurse and was amongst the first group of nurses to successfully attain the C&G Veterinary Nursing of Exotic Species certificate. She has worked in avian and exotic practice for over 13 years. In April 2010 she and Richard Jones BVSc MSc MRCVS opened Avian Veterinary Services, a dedicated bird clinic based in Knutsford, Cheshire.

Edmund Flach

Edmund qualified at Cambridge in 1982 and then spent three years in general practice before undertaking the MSc in Tropical Animal Science at the Centre for Tropical Veterinary Medicine in Edinburgh. For the next five years he did field research on tick-borne diseases of cattle in Zanzibar and Morocco, before being accepted for the post of Veterinary Officer at the Zoological Society of London's Whipsnade zoo. For 14 years he carried out the clinical and pathological work at Whipsnade, plus doing research and also teaching on the ZSL/RVC MSc in Wild Animal Health. As well as looking after the animals in the collection, Edmund also got involved in veterinary aspects of reintroduction projects; common dormice and corncrakes in the UK, and scimitar-horned oryx in Tunisia. In 2006 he specialised in pathology and became ZSL's Zoo and Wildlife Pathologist, based at London zoo, but still involving regular work at Whipsnade. Edmund gained his RCVS Certificate in Zoological Medicine in 1997 and Diploma in Zoological Medicine (Mammalian) in 2001. He has published widely and has presented at many BVZS, EAZWV and international meetings. Edmund was on BVZS council for several years and was President from 2006 to 2008. He also enjoys live music and plays in the band Paradox at a number of pubs in, and around, Leighton Buzzard.

Neil Forbes

Neil heads the avian and exotic department at Great Western Referrals in Swindon, where he provides a clinical first and second opinion exotic service with ECZM residents in avian and small mammal medicine. He gained his RCVS Specialist Status in 1992 and his FRCVS in exotic bird medicine by examination in 1996 and Diplomate of ECAMS in 1997. Neil received the Mackellar Award in 1991, the Dunkin Award in 2002, the Dr TJ Lafeber Avian Practitioner Award in 2004 and the Hunting Award in 2005. Neil was instrumental in changing ECAMS to ECZM and developing the new Speciality opportunities.

Julia Henken

Julia is a Final Year vet student at Nottingham University, and is aiming to specialise in exotics, particularly birds and reptiles. She is the founder and former President of the University of Nottingham Veterinary Zoological Society and is organising their first ever Symposium in December 2010. She has completed the Exotics Summer school in Brno (Czech Republic) and the Veterinary Externship program at ZSL London Zoo.

Jan Hooimeijer

Jan graduated in 1982 from the Veterinary Faculty at the University of Utrecht. He is the owner of the Clinic for Birds (exclusively for birds) since 1983. He is a member of: Association of Avian Veterinarians(AAV), Welfare Committee AAV, Conservation Committee AAV. His other interests and activities include being a certified Parrot behaviour Consultant, member International Association of Animal Behaviour Consultants (IAABC), Founder/Chairman Dutch Parrot Foundation, advisor *Poicephalus* Studbook the Netherlands, Board member "Lokkerij Foundation", Dutch White Stork Reintroduction Project, President/founder Avian Healthcare Company (AHC) and enjoys birdwatching. Jan has developed a practical 5-step Behaviour Protocol dealing with and handling parrots; preventing and solving behaviour problems in parrots. He is the founder of the Dutch Parrot Walks, the inspiration for the Foundation's Parrot Promenade, stressing the importance of the

development of a strong social relationship between parrots and people. He is a frequent speaker at international conferences and has contributed to several text books concerning avian medicine.

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Jane Hopper

Jane graduated from Cambridge University in 2002. After some years in mixed practice and locum work for several zoos she started working for Howletts and Port Lympne Wild Animal Parks in 2004 before becoming head of the Veterinary Department there in 2006. This includes being responsible for the Veterinary aspects of the Aspinall Foundation's overseas projects in West Africa, Indonesia and Madagascar. She is also a founding committee member for the Veterinary charity Worldwide Veterinary Services.

Stephanie Jayson

Steph is a fifth year vet student at the University of Cambridge, having graduated with a Zoology BA degree from Cambridge and written a dissertation in conservation science in her intercalated year. Steph has a strong interest in exotic pet, zoo and wildlife medicine, which began as a preclinical vet student while volunteering as a zoo keeper at a safari park and at wildlife rehabilitation centres. In her clinical years, Steph has worked with a number of exotics, zoo and wildlife vets in the UK and in 2010 was elected President of the Cambridge University Veterinary Zoological Society (CUVZS). Steph is currently organising fortnightly clinical CUVZS talks and the CUVZS Symposium 2011, as well as promoting BVZS in her new role as Cambridge BVZS Rep.

Kevin Jones

Kevin is a veterinary student at Liverpool University. Prior to starting the veterinary course he studied a BSc honours degree in Zoology at Swansea University. He has always had a strong interest in wildlife and conservation, and this year Kevin is intercalating and studying for a Masters degree in Conservation Medicine at Leahurst. Kevin has interests in many aspects of wildlife and zoological medicine and has been involved in a variety of projects including hedgehog rehabilitation, joint disease and arthritis in elephants and *Culicoides* spp. distribution and Bluetongue virus transmission. Kevin is actively involved with the Veterinary Zoological Society at Liverpool (LUVZS) and was recently elected as their President (2010-2011).

Marie Kubiak

Marie graduated from Bristol University in 2006 following placements within zoos, exotic animal practice and an elective placement in the Exotics department at Great Western Referrals. She spent two years as a first opinion exotics vet, before returning to Great Western as a European College of Zoological Medicine resident in 2008. She is one of only two vets to complete the new RCVS modular certificate in Advanced Veterinary Practice with exotics modules, and gained Distinctions in the Avian and Reptile modules.

Becki Lawson

Becki is a Wildlife Veterinarian in the Wildlife Epidemiology research theme at the Institute of Zoology. Her current role is co-ordinator of the Garden Bird Health *initiative*, a collaborative project with the RSPB, BTO and other organizations, which is also the topic of her recently completed PhD research. Becki qualified from Cambridge in 1997 and completed the MSc in Wild Animal Health in 1999/2000. Her research interest focuses on the effects of disease on free-ranging wildlife populations, particularly where pathogens have significant welfare or conservation implications. Her experience with native species includes disease investigation and clinical management of wildlife casualties.

Michael Lierz

Michael graduated in 1996 and earned his doctorate title by thesis from the Free University of Berlin, Germany. After being the director of the Abu Dhabi Falcon Research Hospital, UAE he worked as a scientific assistant at the Free University of Berlin. In 2009 he became the director of the Clinic for birds, reptiles, amphibians and fish, University of Giessen, Germany. He is a Diplomate of the European College of Zoological Medicine, the European College of Poultry Veterinary Science and a RCVS Diplomate in Zoological Medicine. In Germany he holds the specialist status in Avian Medicine; Zoo and Wildlife Medicine, Microbiology and Species Conservation.

Fieke Molenaar

Fieke graduated from the University of Ghent, Belgium, in 2001 and started her veterinary career looking after a variety of primates at the BPRC in The Netherlands. After emigrating to the UK in 2002, she spent several years in general practice before completing the MSc Wild Animal Health in London. She has since worked on conservation and wildlife projects, including a year as Assistant Pathologist at Vic Simpson's Wildlife Veterinary Investigation Centre in Cornwall, before taking up her post at the IoZ in 2007. Fieke works at the Institute of Zoology, Zoological Society of London, as Veterinary Officer on the Species Recovery Programme, a collaborative project between Natural England and ZSL. Its objective is the conservation of UK native species through habitat restoration, captive breeding and reintroductions of endangered or locally extinct native species. Fieke is a Council Member of the BVZS and of the Zebra Foundation. Hobbies other than wildlife include sailing, diving, photography and spending time with the latest new addition to the family.

Michelle O'Brien

Michelle is the Veterinary and Wildlife Health Officer for the Wildfowl & Wetlands Trust (WWT) based at Slimbridge in Gloucestershire. After graduating from the Royal Veterinary College in 1999 she spent six and a half years in general practice, seeing a mix of small animal and exotic species. She gained the RCVS certificate in Zoological Medicine in 2005. Michelle has worked in the wildlife health department at WWT since 2006 and has been involved with UK surveillance for diseases such as avian influenza and chytridiomycosis. She now has overall responsibility for veterinary care at six of the nine WWT centres in the UK, including the Eurasian cranes reared at Slimbridge for release as part of the "Great Crane Project".

Joanne Phillips

Jo is currently a final year veterinary student studying at the University of Nottingham. She has a keen interest in zoo and wild animals which she has further developed through her clinical placements. Jo has combined her passion for travelling with gaining veterinary experience and to date has volunteered in Zimbabwe and India. Her presentation at BVZS is based on a short research project she completed whilst on placement at London Zoo this year.

Romain Pizzi

Romain is veterinary surgeon at the Royal Zoological Society of Scotland, and the Scottish SPCA Wildlife Rescue Centre. He holds an MSc in Wild Animal Health, the RCVS Certificate and Diploma in Zoological Medicine, Membership of the Australian College of Veterinary Scientists by examination in Small Animal Surgery, and is an RCVS Recognised Specialist in Zoo and Wildlife Medicine. Romain has a special interest in veterinary minimally invasive surgery, having performed over 300 endosurgical procedures, and is editor for www.vetlapsurg.com, the internet portal for veterinary minimally invasive surgery.

Joanna Reynard

Joanna graduated from Liverpool in 2007 and spend a year in mixed practice and a year in small animal practice before completing the MSc Wild Animal Health in 2010. She is currently working small animal and exotic practice .

Victoria Roberts

Victoria graduated from Liverpool Vet School in 2000, but has had over 37 years of breeding and judging exhibition poultry and waterfowl. She is Hon. Vet to The Poultry Club, edits the *British Poultry Standards* and has been on their Council for the past eighteen years. She has written four books on poultry, including diseases, is an Honorary Lecturer at Liverpool Vet School, edits the British Veterinary Zoological Society publications and is currently President, plus locums in her spare time.

Michael Stanford

Stan qualified from Liverpool University in 1987 and after working in an avian and small animal referral practice in North Yorkshire, he moved to Cheshire to open his own clinic specialising in birds. The practice now employs five veterinary surgeons with an 80 % case load of exotic pet, zoo and wildlife patients. The practice provides veterinary services to the RSPCA Wildlife Hospital, Stapeley

Grange, and laboratory interpretation for Pinmoore Laboratories which is based within the practice. In 2006 he was awarded the Diploma of FRCVS by thesis for his work on calcium metabolism in Grey parrots and was granted RCVS Specialist status in Zoo and Wildlife Medicine the following year. He is author of various book chapters associated with exotic animal medicine, including several BSAVA manuals, and has published widely and lectured extensively both at home and abroad. He currently works part time in his practice enjoying a varied workload including exotic pets, zoo and wildlife cases and is employed as a Claims Consultant for the Veterinary Defence Society.

Mark Stidworthy

Mark graduated from Cambridge in 1996 (taking pathology as his intercalated degree); received pathology residency training and diagnostic experience at Liverpool and Cambridge Veterinary Schools and holds a Cambridge PhD for experimental studies on repair in the central nervous system. He is a Fellow of the Royal College of Pathologists in the specialty of veterinary pathology. Mark has run the pathology section of International Zoo Veterinary Group since 2003, providing dedicated full-time anatomic pathology services (post-mortem examinations and histopathology) for zoo, exotic and wildlife species including fish. Cases derive from collections and aquaria served by IZVG's clinical veterinarians and by referral from specialist practitioners and other pathology laboratories.

Taina Strike

Whilst studying veterinary medicine in her native South Africa, Tai volunteered at the National Zoo, Pretoria and in various national parks. After 8 years in general practice, she completed her MSc in Wild Animal Health based at the Zoological Society of London (ZSL) London Zoo in 1999. She has worked for ZSL at both London and Whipsnade Zoos as a Veterinary Officer since 2000. Her duties include treating all creatures truly great and very small – from ants to elephants - as well as teaching post graduate veterinary students undertaking the MSc in Wild Animal Health and undergraduate students at the RVC. Her clinical research work ranges from various aspects of wildlife reproduction to dietary modification of cholesterol in captive meerkats; investigating the use of cardiac troponin in zoo species and serological testing for haemochromatosis in Ramphastids. She has presented papers at many national and international conferences. Tai is the TAG veterinarian for ramphastids and hummingbirds.

Peer Zwart

Peer qualified from Utrecht University, The Netherlands in 1955. During military service he was trained as an officer to be inspector of food of animal origin. From 1956-1990, he worked at the Veterinary Faculty Utrecht, the first 7 years at the Department for Tropical and Protozoan Diseases. This included 50 % research on diseases of zoo animals and exotic pets. In 1963 Peer's thesis was presented on "Studies on renal pathology in reptiles". He then moved to the department of veterinary pathology, a full time job on diseases of zoo animals, exotic pets and wild life and in 1980, pathology of laboratory animals became a part of the work. Peer was then registered as Laboratory Animal Pathologist and specialist in Veterinary Pathology. He is proud to be awarded Honorary Membership of the European Association of Zoo and Wildlife Veterinarians (EAZWV) and in 2007 Honorary Membership of BVZS.