

2003 International Working Dog Breeding Conference

Presenter Biographies

Carmen Battaglia, PhD

Carmen was given his first dog by his grandfather when he was five years old. That was the beginning of a lifelong fascination with all aspects of dog behavior, breeding, training and showing. He has personally bred and finished several Champions, Select Dogs, Futurity and Maturity winners. Today, he is considered an expert as well as a highly respected AKC judge of more than 40 breeds.

By education, (holding the Masters and Doctorate from Florida State University), he is a researcher, lecturer and author. His articles have appeared in the "AKC Gazette", "Dog World", "Dog News", "Canadian Shepherd Journal", "South African Dog Magazine" as well as dog publications in Australia and Ireland. Being very active in the dog world, Dr. Battaglia is a Director of the American Kennel Club and has served as Chairman of such important committees as: National Genetics Committee (German Shepherd Dog Club of America), the American Kennel Club Committee for the Future, the Operations and Planning Committee, as well as the Health and Education Delegates Committee. The AKC called upon his expertise in genetics to create and develop their DNA program. He is also a much-sought-after speaker on this topic for television and radio talk shows.

Author of several different books on dog breeding, Dr. Battaglia has gained worldwide recognition, most notably for the program he developed - "Breeding Better Dogs". Popular demand has prompted the creation of a seminar for dog clubs which mirrors his book and a video of this method which has been presented across the country and considered an imperative foundation to any successful breeding program.

Rolf Beilharz, PhD

Dr Beilharz earned his BSc in Agriculture in 1957, and his MSc in Agriculture in 1962 from the University of Sydney and his PhD in Animal Breeding and Genetics from Iowa State University in 1965. Dr Beilharz was a member of the Faculty of Agriculture, Agriculture and Forestry, now the Institute of Land and Food Resources, The University of Melbourne, from 1965 - 1996. Dr Beilharz has conducted extensive research in genetics and animal breeding, as well as animal behaviour, and teaching of these subjects to Agricultural Science and Veterinary Science students. He has supervised many Masters and Doctoral Students. Dr Beilharz served as the Dean of Agriculture and Forestry 1984 - 1986. Dr Beilharz serves as a consultant in animal breeding to animal breed societies, the National Guide Dog Centre, the Australian Customs Service, the Victorian Canine Association, and other organizations concerned with animal improvement. In addition, Dr Beilharz was selected as an Alexander von Humboldt-Fellow on several visits to Germany to do research in animal behaviour, has studied at the University of California, Davis, and animal behaviour and developed theory on genetics applied to animal improvement. Dr Beilharz served as the Australian delegate to the International Ethological (i.e. Animal Behaviour) Committee. Dr Beilharz' research has covered two fields: (a) genetics as applied to animals (population and quantitative genetics, applied animal breeding, reproduction), and (b) animal behaviour. He has authored over 100 scientific publications in genetics and animal breeding, behaviour and reproduction of animals, and in the areas connecting these fields, i.e. behaviour genetics, animal welfare, adaptation of animals to their environments, and evolutionary theory. Recent publications establish that genetic improvement in animals will not achieve success unless the environment is improved as well. As farming environments rapidly become limiting, continued "genetic improvement" in animals must lead to deleterious side effects. In April 2002, Dr Beilharz was a Crane Lecturer (Agricultural University, Skara, Sweden), and taught "Resource Allocation - a new paradigm for evolution and animal breeding" to international audience interested in genetics for evolution and animal breeding. His practical work for the benefit of society has included the Australian breeding programs for guide dogs for the blind and for narcotic detection dogs of the Australian Customs. Australian Customs Service drug detector dogs have received wide publicity and have become the source for cooperative breeding programs for detector dogs in the U.S.A.

Larry Carpenter, DVM, DACVS

Dr Carpenter is a Diplomate of the American College of Veterinary Surgeons, completing his residence at Colorado State University. He retired from the United States Army Veterinary Corps as a Colonel in 2003 as the Director, Department of Defense Military Working Dog Veterinary Service.

- **Randy Deutsch, PhD**

Dr Deutsch earned his BS and MS degrees in Entomology from Texas A&M University and is a 1973 graduate of Texas A&M University, College of Veterinary Medicine. He practiced Companion Animal Medicine for 13 years in Houston, TX. Since 1986, Dr Deutsch has worked in the industrial sector of veterinary medicine and is currently a Consulting Veterinarian with Hill's Pet Nutrition.

- **Kenneth Furton, PhD**

Ken Furton is a Professor in the Department of Chemistry and Biochemistry, Associate Dean of Arts & Sciences and Director of the International Forensic Research Institute at Florida International University (FIU). He received a B.S. in Forensic Science at the University of Central Florida in 1983, a Ph.D. in Analytical Chemistry at Wayne State University in 1986 and Post-doctoral studies at the University of Wales, Swansea in 1988. He has directed the research of more than 50 FIU undergraduate and graduate students and is the author or co-author of more than 300 peer-reviewed publications and presentations. Professor Furton's research program has focused on forensic science and separation science including the development of novel sample preparation methods including supercritical fluid extraction (SFE) and solid phase microextraction (SPME). Since 1993 he has been studying the chemical basis of detector dog alerts to forensic specimens.

- **Samantha Gaines**

Samantha Gaines graduated from the University of Nottingham in 1999 with a BSc (Hons) in Animal Science. She then went on to complete an MSc in Applied Animal Behaviour and Welfare at the University of Edinburgh.

In 2000, she joined the Defence Evaluation and Research Agency (DERA) now the Defence Science and Technology Laboratory (dstl) to conduct behavioural research into Arms and Explosive Search dogs. She became the project leader of the US funded Canine Selection and Rearing programme in January 2002 and is now studying the effects of stress on the operational effectiveness of search dogs.

- **Cristina Gobello, Dr.Vet.Med., Dipl ECAR**

Studies in Veterinary Medicine, Faculty of Veterinary Sciences of National University of La Plata (FVS-NULP), Argentina (1980-1985), veterinary examination in 1985 (Med. Vet.). Member of the Buenos Aires Province Veterinary Medical Association (BAP VMA, 1985 -). Senior Lecturer; Small Animal Clinical Practice: Department of Clinics, FVS-NULP (1988 -). Diploma in University Teaching, FVS-NULP (1989). Specialty in Canine and Feline Clinical Practice BAP VMA (1993 -). Researcher of NULP (1994-), principal research interest canine reproduction. Member of the European Society of Small Animal Reproduction (1998 -). Dr.Vet.Med. degree (PhD equivalent) FVS-NULP (1999). Assistant Professor Canine and Feline Reproduction, FVS-NULP (2000-2003). Diplomate of the European College for Animal Reproduction (2002-). Member of the Local Organizing Committee of the Small Animal Satellite and Chairman Small Animal Session, ICAR 2004.

- **Ian Gunn, PhD**

Dr Ian Gunn is a Senior Research Fellow at the Monash Institute of Reproduction and Fertility, Monash University and Project director of the Animal Gene Storage and Resource Centre of Australia (a centre for the preservation of genetic resources of endangered wildlife) and a practicing veterinarian. Over the last 30 years he has pioneered the development of assisted reproductive technology in the canine. The work has related to canine fertility and infertility, semen collection and preservation, the development of non-surgical transcervical insemination, and research into the collection and maturation of canine embryo's for the possible preservation of elite sires or dams or for the future of cloning in the canine.

- **Julie Herbert, BVSc**

Dr Julie Herbert is currently the supervisor of the Military Working Dog Breeding Program for the Department of Defence in Australia. She was appointed as head of the program in Jan 02 and is responsible for consolidating a German Shepherd Dog and Malinois breeding scheme that will produce suitable working canines for both the RAAF and Australian Army. Julie graduated with a Bachelor of Veterinary Science in 1993. She completed a Post-Graduate Diploma in Education in 1995 and taught high-school Agriculture for six years. Her academic background,

experience in beef and sheep breeding programs and ability to bring organisational skills, a scientific perspective and enthusiasm to the position, have made her a valuable member of the dog supply team.

- **Stewart Hilliard, PhD**

Dr Hilliard began training working dogs in 1980 in Denver, Colorado, when he became involved first in competitive working dogs and then in the training of police service dogs. Over the years, he has taught working dog training seminars for sport clubs and law enforcement agencies all over the United States, and also been invited to teach in Canada, Australia and Brazil. He is the co-author, with Susan Barwig, of the very successful manual **Schutzhund: Theory and Methods of Training**, and has also written and directed many well-received videotapes about sport and service dog training produced by Canine Training Systems, of Littleton, Colorado. In 1983, he received his B.A. in psychology at the University of Colorado at Denver, and in 1997 he received his Ph.D in Behavioral Neuroscience at the University of Texas in Austin. Dr Hilliard was a Research Fellow in Military Working Dog Studies with the Department of Defense Military Working Dog Veterinary Service, at Lackland Air Force Base, Texas, from 1997 to 2000, and is currently the Program Manager for the DoD Military Working Dog Breeding Program there.

- **Ken Hubbard, DVM**

Dr. Hubbard studied engineering and computer sciences before receiving his DVM degree in 1978 from the Western College of Veterinary Medicine. After graduation he opened a mixed animal practice in Red Deer, Alberta. In 1983 Dr. Hubbard took a sabbatical from practice, returned to the WCVM and pursued postgraduate studies in the Herd Medicine and Theriogenology Department working with computer applications in dairy herd medicine. Returning to private practice he continued his interest in reproduction as well as started a company computerizing Veterinary practices in western Canada. In 1990 Dr. Hubbard sold the computer company, opened his second small animal Veterinary Hospital in Red Deer and focused entirely on companion animals with a special interest in surgery and reproduction. Dr. Hubbard started working with frozen canine semen in 1994 and has been assisting the RCMP with their breeding program for the past several years.

- **Malinda Julien**

Ms Julien is the Founder, President/CEO, the Director of Research and Development for US Tactical K9 Training Programs, and is in charge of Handler Education, Director of Breeding Program, Archangel Working Dogs. Ms Julien is also the Director US Tactical K9 GSD/Belgian Malinois Rehome Project, and an Instructor at the US Tactical K9 Law Enforcement Academy.

- **Robert Kelly**

Robert L. Kelly is listed among the Millennium Founders of the AKC Canine Health Foundation and serves as Treasurer and Grants Committee Chair of the Board of Directors. This Foundation is the fortieth corporate board on which he has served. Initially a design engineer, Mr. Kelly is the retired president of a major manufacturer of large agricultural tractors. He has bred and shown Dachshunds, American Quarterhorses and Charolais cattle. Robert and June Kelly are breeders, owners and handlers of AKC conformation, field trial and obedience champions and TD and TDX titleholders. Their OTCH CH Dachshund remains the #1 Hound in OTCH points earned.

Mr. Kelly was an initial member of the Board of Directors of the AKC Canine Health Foundation and has served with distinction since 1995. Mr. Kelly has been an active AKC Delegate and was elected to the Board of Directors of the American Kennel Club in March of 1999.

- **David Kontny**

Mr. Kontny joined the Transportation Security Administration (TSA) (formally FAA) in January 1998 and is the Director of the TSA National Explosives Detection Canine Team Program. He was born in Worcester Massachusetts and is a graduate of Burncoat Senior High School. His military career began in February 1978, joining the Massachusetts Army National Guard. In February 1983, he entered active duty the United States Air Force as a Law Enforcement Specialist. After 15 years of honorable service he transferred from active duty to the United States Air Force Reserve as an Individual Mobilization Augmentee (IMA) at the Pentagon. Prior to joining the TSA Mr. Kontny was assigned to Headquarters United States Air Force Directorate of Security Forces, Pentagon, Washington DC, as the Department of Defense (DoD) Military Working Dog Program Manager and the Superintendent of Force Protection. Before being assigned to the Pentagon he was assigned to Headquarters Air Combat Command (ACC), Directorate of Security Forces, as the MWD Program Manager and Superintendent, Contingency Operations Branch.

Prior to his assignment at ACC he performed duties as the Superintendent, MWD Program and Superintendent, Current Operations Branch, Headquarters Strategic Air Command (SAC). Mr. Kontny was the DoD Explosives Canine Coordinator for both the 1992 Republican National Convention and the 1994 World Cup Soccer events. Mr. Kontny also served as the President, Region 9 of the United States Police Canine Association in 1990. He is a graduate of the Federal Bureau of Investigation National Academy and is also an active member of the International Association of Bomb Technicians and Investigators (IABTI). Dave and his wife Nancy reside in Montclair VA and have a son Kurt, and a daughter Kristen, as well as four lovely granddaughters, Aureanna, Kaitlyn, Ally, and Melody.

- **Eldin Leighton, PhD**

Dr. Leighton is the Jane H. Booker Director of Canine Genetics for The Seeing Eye, Inc. of Morristown, New Jersey, a post he has held since 1995. His affiliation with The Seeing Eye began as a consultant in 1977. In 1979, he completely re-designed their canine breeding program, and the Seeing Eye dogs produced today are the product of that breeding program. Dr. Leighton studied population genetics applied to domestic livestock at Iowa State University where he earned the M.S. degree in 1973 and the Ph.D. in 1979. From 1973-1976, while on active duty with the U.S. Army, he served as research geneticist for the Division of Bio-Sensor Research, a unit in the Walter Reed Army Institute of Research. This project was popularly known as the "Super Dog Project".

- **Frode Lingaas, PhD**

- **Kelly Mann, DVM, MS, DACVR, MAJ, USA, VC**

Dr. Mann received his Bachelor of Science in 1986 from Georgia College and graduated from the University of Georgia, College of Veterinary Medicine in 1990. While attending the University of Georgia, he completed externships with the Southeastern Cooperative Wildlife Disease Study, Athens, GA, the Woodland Park Zoological Gardens, Seattle, WA and the San Diego Zoological Gardens, San Diego, CA. After one year in private practice, Dr. Mann returned to the University of Georgia and completed a Master of Science in Veterinary Parasitology. He joined the US Army Veterinary Corps in 1993. His previous assignments include: Chief, Corpus Christi Branch Veterinary Services, Naval Air Station Corpus Christi, TX; Group Veterinarian, 10th Special Forces Group (Airborne), Fort Carson, CO; and, Resident in Diagnostic Radiology/Imaging, Colorado State University Veterinary Teaching Hospital, Fort Collins, CO. He graduated from Colorado State University with a Master of Science in Radiological Health Sciences in 2000 and is a diplomate of the American College of Veterinary Radiology. Currently, Major Mann is the Chief of Clinical Services and Radiology at the Department of Defense Military Working Dog Veterinary Service, Lackland Air Force Base, TX.

- **Warren Mathey, DVM, MS**

Dr Mathey earned his BS degree from Spring Hill College in Mobile Alabama. He earned his DVM degree from The Ohio State University in Columbus, Ohio, and his MS in Medical Imaging from Texas A&M University in College Station, Texas. Dr Mathey served in the United States Marine Corps prior to his service in the United States Army, where he retired as a Lieutenant Colonel. Dr Mathey has had extensive experience in imaging in dogs and marine mammals, and has been associated with the United States Department of Defense Military Working Dog Program for over 20 years. He currently serves as a civilian veterinary clinician with the program.

- **George E Moore, DVM, MS, Dipl ACVPM, Dipl ACVIM**

Dr. Moore was extensively involved in the DoD Military Working Dog Program before his retirement from the U.S. Army in 2002, having served as the Director, DoD Military Working Dog Veterinary Service, Lackland AFB, from 1996-2000. He is currently a Research Assistant in Comparative Epidemiology at the School of Veterinary Medicine, Purdue University, West Lafayette, IN, where he is investigating risk factors for companion animal diseases.

- **Paul Mundell**

Paul E. Mundell is the National Director of Canine Programs at Canine Companions for Independence (CCI). His responsibilities include oversight of the breeding program as well as directing the training and puppy raising programs at CCI's regional centers throughout the United States.

Mundell began his career at CCI as an instructor in 1989 at the Northeast Regional Training Center on Long Island. In 1991 he was promoted to Regional Director and in 1995 to National Director of Canine Training. He assumed his current job in 1995.

Mundell received a BA from Haverford College and attended graduate school at the University of Heidelberg. It was during this time that he first became actively involved in training working dogs and dog sports.

- **Keith Murphy, PhD**

Dr. Keith E. Murphy is Associate Professor of Genetics, Veterinary Pathobiology and Biotechnology at the College of Veterinary Medicine of Texas A&M University. He is Director of the Canine Genomics Laboratory and also serves on the Executive Committee of the Program in Genetics. His laboratory is interested in defining the genetic bases for several of 400+ hereditary diseases of the domestic dog. More specifically, current research concerns hip dysplasia, deafness, pancreatic acinar atrophy and renal diseases. Furthermore, his lab has developed molecular tools that improve the efficiency of whole genome scans of the dog (Cargill et al., 2002). Finally, his lab is also involved in canine forensics and has assisted law enforcement agencies. His most important work during the recent past is concerned with (1) the identification of a mutation causative for X-Linked Alport syndrome (XLAS), a fatal renal disease of the dog and human; this work also includes development of an allele-specific, PCR- based test to identify carriers and those destined to develop XLAS—this obviates the need for biopsies (Cox et al., 2003), (2) development of a multiplexed set of microsatellite markers for use in whole genome screens of the dog (Cargill et al., 2002) and (3) mapping members of the keratin and collagen gene families (Miller et al. 2001; Lowe et al., 2003). Other publications (from the Murphy lab or collaborating laboratories) in 2001-2003 concern (1) inheritance of pancreatic acinar atrophy in the German Shepherd Dog, (2) characterization of canine transglutaminase and (3) identification, sequencing and mapping of canine uromodulin (a gene expressed only in the kidney) (Cox et al., 2002). Dr. Murphy's lab currently has eleven members; ten doctoral students and one postdoctorate. During his career Dr. Murphy's laboratory has been supported by grants from federal, non-profit and industrial entities.

- **Dan Myers**

Daniel Myers is Daniel Myers has over 25 years experience in the Energy, Network and Telecommunications industry. Prior to becoming president of OM Software, he was Sr. Managing Consultant with Predictive Systems' OSS group, a leading technology consulting firm in the Telecommunications and Enterprise Networking industry. Preceding Predictive Systems, he was Sr. Manager of Capacity Planning and OSS for Bellsouth Corporation. Other assignments included Hewlett Packard Companies Network Management Group, Firing Room 1 Technical Staff at Kennedy Space Center and Service in the U.S. Navy Nuclear Power program.

- **Larry Myers, DVM**

Education: BS, wildlife ecology, 1972, MS, zoology with ethology emphasis, 1977, Ph.D., neurophysiology, 1981, DVM, 1981.

Academic Positions Held: Resident, Veterinary Medicine Mississippi State University, Assistant professor, Auburn University, 1982-1992, Founder and Director, Institute for Biological Detection Systems, Auburn University, 1988-1995, Associate Professor, 1992-present.

Other professional positions: Vice-President, American Veterinary Neurology Association, 1985-1987, President, American Veterinary Neurology Association, 1987-1989, Research Director, Canine Accelerant Detection Association, 1991-2001, Research Director, California Narcotic Canine Association, 1991-present, Steering Committee, Real-Time Detection, SPIE, 1992-1995, Chair, Real-Time Detection Technologies, Innsbruck, Austria, 1994, Consultant to more than 50 federal, state and local agencies for issues in detection, 1984-present.

Publications: Over 50 papers and book chapters relating to sensory function and behavior, mechanisms of sensory transduction, and development of hybrid biosensors.

- **Ronnie Nye, DVM, MS, LTC, USA VC**

LTC Nye earned his BS and DVM from Oklahoma State University in 1977 and 1982, respectively, and his MS in Small Animal Surgery from Colorado State University in 1994. LTC Nye has served in a number of assignments as

an officer in the United States Army Veterinary Corps, and is currently assigned as the Chief of Dentistry and Surgery for the Department of Defense Military Working Dog Veterinary Service, Lackland Air Force Base, Texas. LTC Nye's special interests include surgical management of canine fractures.

- **Karen Overall, DVM, PhD, DACVB**

Dr. Karen Overall received her BA and MA degrees concomitantly from the University of Pennsylvania in 1978, and was awarded her VMD from the University of Pennsylvania, School of Veterinary Medicine in 1983. Her PhD was awarded by the University of Wisconsin - Madison, and she completed a residency in Behavioral Medicine at Penn in 1989.

Dr. Overall has given hundreds of national and international presentations and short courses and is the author of over 100 scholarly publications on behavioral medicine and lizard behavioral ecology. She currently writes a bimonthly column for **DVM Newsmagazine**. Her best-selling textbook, **Clinical Behavioral Medicine for Small Animals**, was published by Mosby in 1997. Her new book, **Manual of Small Animal Behavioral Medicine**, to be published by Elsevier early in 2004. She is a Diplomate of the American College of Veterinary Behavior (ACVB) and is certified by the Animal Behavior Society (ABS) as an Applied Animal Behaviorist.

After 14 years at the University of Pennsylvania School of Veterinary Medicine, where she ran the Behavior Clinic for more than 12 years, she joined the faculty of the Psychiatry Department at Penn Med as a Research Associate where her research interests focus on the development of natural genetic and behavioral canine models for human psychiatric illness, particularly those involving anxiety, panic, and aggression. Dr. Overall's clinical work has at its core the humane treatment of troubled pets and their distressed people. Dr. Overall frequently consults with all types of service dog organizations and governments interested in legislation involving dogs and cats.

- **Garth Patterson**

- **Kristine Ritter, BS, RVT**

Kristine Ritter graduated from Texas A&M University with a degree in Animal Science. She is currently a Veterinary Technician in the Behavioral Medicine section of the Department of Defense Military Working Dog Veterinary Service. She is directly involved in the Department of Defense and Transportation and Security Administration Breeding Dog programs at Lackland Air force Base. As well as being responsible for the overall health of all breeding dogs and puppies in the program, she closely monitors the breeding female's heat cycles and fetal development during pregnancy.

- **Nicola Rooney, PhD**

Nicola Rooney graduated from Leicester University in 1993 with an honours degree in Biological Sciences. She then completed a Post-graduate Certificate in Education before commencing a career in behavioural research. She has studied the behaviour of numerous species of animal including primates, before specialising in domestic dog behaviour. Since 1995, she has been working within the Anthrozoology Institute formerly at the University of Southampton, and now at the University of Bristol in the UK. In 1999 she was awarded a PhD for her studies of the play behaviour of the domestic dog. For the past four years she has been conducting research into specialist search dogs, funded by and collaborating with the Defence Science Technology Laboratory. She has completed a variety of studies aimed at improving the selection of search dogs including questionnaire surveys to identify the ideal dog and breed and a critique of current procurement methods. She has also initiated research into the interaction between welfare and working ability of search dogs. Since 2000, she has been working on an extensive rearing study for Arms and Explosives Search Dogs.

- **Gail Smith, DVM, PhD, DACVR**

Dr. Gail Smith is currently Professor of Orthopaedic Surgery and Chairman of the Department of Clinical Studies at the University of Pennsylvania School of Veterinary Medicine. He received his VMD from the University of Pennsylvania in 1974, completed orthopaedic surgical residency training in 1979, and was awarded a PhD in engineering in 1982. He served as president of the Veterinary Orthopaedic Society and he has contributed to the literature more than 150 research articles, book chapters and proceedings. In his research, Dr. Smith has applied engineering principles to investigate the musculoskeletal system in both health and disease. His work has focused

on orthopaedic problems of the spine, the knee and the hip. In 1993 Dr. Smith founded PennHIP, an evidence-based, stress-radiographic, diagnostic method having the advantage to predict the susceptibility to hip dysplasia in dogs as young as 16 weeks of age. PennHIP consists of a worldwide network of more than 1500 trained veterinary practitioners and includes a rapidly expanding database of genetic information. Research continues to support the superiority of this new radiographic phenotype to effectively select breeding stock to reduce the frequency of canine hip dysplasia.

- **Kraig Stemme, DVM**

Dr. Kraig Stemme is a Veterinary Professional Services Manager for Merial, Limited, and has been providing technical support for companion animal products for 10 years in Texas and Louisiana. Dr. Stemme provides training and educational seminars for veterinarians and their hospital staff members, Merial sales representatives, and students enrolled in professional and technical programs relating to veterinary medicine. Prior to joining Merial, Dr. Stemme worked for Hill's Pet Nutrition for 5 years gaining valuable expertise in pet nutrition followed by 3 years extensive experience in ectoparasite control with Zoetis Corporation, manufacturers of Vet-Kem products.

Dr. Stemme has authored several technical bulletins, participated in research studies, and presented papers at national and international symposia. His special interests include ectoparasites of pets and integrated pest management strategies. Dr. Stemme has also been honored by Merial by receiving the Vital Circle Award in 2001 and the Circle of Excellence Award in 2002.

A graduate of the University of Missouri College of Veterinary Medicine, Dr. Stemme spent 12 years in private clinical veterinary practices in Arizona, Missouri, and Kentucky prior to working in the animal-health industry. He is a member of the American Veterinary Medical Association and the Texas Veterinary Medical Association. Dr. Stemme resides in a suburb of Dallas, Texas, with his wife, Suzanne, two Deutsch Drahthaar dogs, and an ancient Birman cat.

- **Yukari Takeuchi, DVM, PhD**

Dr. Yukari Takeuchi is Associate Professor of Veterinary Ethology at the University of Tokyo, JAPAN. She graduated from Tokyo University of Agriculture and Technology and obtained veterinary license in 1989. She received her PhD at the University of Tokyo in 1995 and was assigned to the present position in 1997. After returning from the sabbatical at Cornell University (Dr. Houpt) and UC Davis (Dr. Hart) in 1998-1999, she started to run the Behavior Clinic at Veterinary Medical Center of the University of Tokyo (from 2000-present). Besides clinical works she is currently involved in some research projects including "Nature and Nurture" projects' investigating the mechanism underlying the individual behavioral traits in animals and "pheromone" projects aiming at creation of novel means of controlling animal behavior via olfactory and vomeronasal systems.

- **Scott Thomas**

Scott Thomas is currently the program manager for the Transportation Security Administration's Puppy Program. This research and development program is evaluating the ability to breed and develop Labrador retrievers for airport detection work. Scott has worked in variety of other animal training and husbandry fields to include working as, a marine mammal trainer, an exotic bird trainer, a salt marsh eco-tour guide, a zoo environmental enhancement director, a zoo habitat design expert, and as a veterinary assistant. He has also been involved in working dog sport for the past twenty years.

- **John Vandelloo**

Mr Vandelloo is founding manager of the Australian Customs Service National Breeding And Development Centre for detector dogs since 1993. He has been a member of the ACS detector dog program since 1979 including serving as Chief Instructor. During 1992 he initiated a path finding collaborative Doctoral research project between Customs, The University of Melbourne and Guide Dogs Association of Australia. This investigation into quantitative genetics and environment influence undertaken by Dr Kath Champness formed the basis for Australian Customs very successful selective breeding model. In 1998 with the authority of Her Majesty Queen Elizabeth The Second, Australia's Head of State presented Mr Vandelloo the prestigious Public Service Medal for evolving the breeding centre and enhancing the working canine role in community protection. Since the mid 90's Mr Vandelloo has been a strong advocate towards the development of a global gene bank network for quality detector dogs.

- **Paul Waggoner, PhD**

Dr. Waggoner is an experimental psychologist with interests in behavior analysis, psychophysics, and substance detection technology, especially that involving canine olfaction. He is a research fellow at Auburn University and serves as interim director of the Canine and Detection Research Institute, CDRI (formerly known as the Institute for Biological Detection Systems). The primary mission of CDRI is to conduct research, development, testing, and evaluation to enhance canine detection technology. Dr. Waggoner has 14 years of experience at CDRI performing laboratory studies of canine olfaction and field research of applied canine detection issues such as canine training, handler training, and operational deployment of canine detection teams. Current R&D topics include: Olfactory detection signatures, canine response generalization across variants of explosive types, developing improvised canine training aids for explosives, developing chemical agent detection capabilities, developing canine handler candidate selection criteria, and assessing the performance of prototype instrumental detection devices. In order to increase canine detection resources in the nation and provide a conduit for technology transfer, Auburn University established the Canine Detection Training Center (CDTC) and Breeding Program at McClellan, AL. The CDTC conducts canine, handler, and canine program management training and consultation. The CDTC Breeding Program is a satellite of the highly successful Australian Customs Service (Labrador Retriever) detector-dog breeding program. Dr. Waggoner is a member of the Association for Behavior Analysis, Executive Committee of the Alabama Association for Behavior Analysis, Association for Chemoreceptive Sciences, and the Geneva Center for Humanitarian Demining - Canine Landmine Detection Advisory Group.

- **Cathy Wright, DVM**

I graduated from Western College of Veterinary Medicine in Saskatoon in 1980. I worked in a mixed animal practice upon graduation for 8 years, then started my own small animal practice. I have been owner/manager of my practice for 13 years, and have had the pleasure of working with the RCMP Dog Training Kennels for 22 years, initially with the health aspect of the training dogs and giving medical lectures to the dog handlers, and now as well with the breeding program. It has been a very rewarding and educational experience over the years. I have also taught the Animal Technology program at Olds College for 5 years, and provided veterinary care to a local wildlife rehabilitation center for 20 years. I am married, live in Olds Alberta and have 2 great children who take care of most of my spare time. I also enjoy hiking and camping.

- **Steven Zicker, DVM, PhD, DACVIM, DACVN**

Dr. Zicker obtained his BS in biochemistry at UCLA and MS in biochemistry at the University of Wisconsin, Madison. His DVM degree was obtained from the University of California, Davis followed by an internship at Texas A&M University and a residency in internal medicine at UC-Davis. Subsequently, he obtained a Ph.D. in nutrition at UC Davis followed by a 2 year teaching appointment in the Department of Molecular Biosciences. His current position is Senior Nutritionist at Hill's Pet Nutrition, Inc.