



SJDAWC

2017 *Annual Report*



SIR JAMES DUNN ANIMAL WELFARE CENTRE *at the Atlantic Veterinary College*

PROMOTING ANIMAL WELFARE THROUGH RESEARCH, SERVICE, AND EDUCATION

ATLANTIC VETERINARY COLLEGE
UNIVERSITY OF PRINCE EDWARD ISLAND
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SJDAWC 2017 ANNUAL REPORT

Sir James Dunn Animal Welfare Centre, Atlantic Veterinary College, University of Prince Edward Island

MANDATE

The Sir James Dunn Animal Welfare Centre exists to promote animal welfare by generating and disseminating impartial and scientifically based knowledge and understanding of animal welfare issues.

The Centre facilitates, focuses, and coordinates academic and research resources at the Atlantic Veterinary College to carry out animal welfare research and education, and to provide information and advice to industry, government, organizations, and the public.

STRUCTURE

The SJDAWC is governed by a Management Board that reports to the Dean of the Atlantic Veterinary College.

MANAGEMENT BOARD

- » CHAIR—DR. LARRY HAMMELL, Interim Dean, UPEI School of Graduate Studies; Associate Dean, AVC Graduate Studies and Research
- » DR. MICHAEL COCKRAM, Chair in Animal Welfare (ex-officio)
- » DR. ALICE CROOK, Coordinator, SJDAWC (ex-officio)
- » MS. ANNA MACDONALD, AVC External Relations Officer (ex-officio)

Departmental representatives

- » DR. SUNNY HARTWIG, Department of Biomedical Sciences
- » DR. DAN HURNIK, Department of Health Management
- » DR. ORIANNA RAAB, Department of Companion Animals
- » DR. ANNE MUCKLE, Department of Pathology and Microbiology

External representative

- » DR. JIM GOLTZ, Manager, Veterinary Laboratory and Pathology Services, New Brunswick Agriculture, Aquaculture and Fisheries

SJDAWC ACTIVITIES IN 2017

AVC Winter Webinar Series (February/March)

“New Approaches to Old Diseases (core communication tools, including disease trajectory models, for severe and chronic diseases),” Dr. Caroline Hewson (inaugural AVC Chair in Animal Welfare, now in the UK) and Dr. Christine Savidge (AVC)

13th annual Animal Welfare in Practice conference: Feline Behaviour (September)

Keynote speaker Lynn Seibert (DVM, MSc, PhD, DipACVB), with Drs. Kathy Ling and Alice Crook (AVC)

Co-hosted with the AVC Animal Welfare and Feline Clubs; speakers’ presentations may be found at awc.upei.ca/felinebehaviour

GRANTS AWARDED

Through an annual competition, the SJDAWC provides funding for service and research projects.

SERVICE

Service grants 2017

CAREY AM, KENNY C. AVC humane dog training program (2017-19), with PEI Humane Society (HS)

MUIRHEAD T, CONBOY G, MACMILLAN K. Health management services for Handibear Hills Equine Sanctuary, Inc. (2017-19)

VANLEEUEWEN J, RICHARDS S. Youth training to improve cow and animal welfare in Kenya and Canada—Part 2 (2017-18)

Ongoing service projects

CROOK A, LING K, GUNN MCQUILLAN H. Pegasus feral cat neuter program, with PEI Cat Action Team

CROOK A, GUNN MCQUILLAN H. Pegasus Helping Hand fund

FOLEY P. Feral cat neuter program, with PEI Cat Action Team

FOLEY P. Financial aid for spay or neuter of companion animals of owners on fixed income (2016–18), with SpayAid PEI

HOPSON M, MILLER L. Chinook Project (funded independently since 2011)

MOAK P, FOLEY P, MACDONALD R, GUNN MCQUILLAN H, MACLEAN M. Medical and surgical care of homeless animals (2016–18), with PEI HS

SPEARS J, DAOUST P-Y, GELENS H. Clinical wildlife care at AVC (2016–18)

Please visit awc.upei.ca/Service_projects for more information about these and other service projects.

RESEARCH

Research grants 2017

GILROY C, BURTON S, FOOTE K, VANDERSTICHEL R, JOHN E. Appropriate prognosis and treatment of horses with respiratory disease—assessing microscopic area and sample volume of bronchoalveolar lavage fluid

HAMILTON S, HURNIK D. Initial evaluation of an injectable anesthetic for the castration of male piglets under field conditions

HARTWIG S. Development of an evidence-based, high-sensitivity canine Lyme borreliosis diagnostic protocol to improve the welfare of dogs in Atlantic Canada

MACMILLAN K, COCKRAM M, SANCHEZ J. Risk factors for musculoskeletal injuries in a population of Standardbred racehorses on PEI

On-going research projects

COCKRAM MS, REVIE CW. Identification of risk factors during broiler transportation that influence injury and mortality

HEIDER L, CAMERON M, SANCHEZ J, MCCLURE J. Care of the dairy calf: Investigation into the welfare and health of calves in the Maritime provinces of Canada

KEEFE G, CAMERON M, COCKRAM M, MCKENNA S, SANCHEZ J. Achieving meaningful improvements in dairy cow welfare by reducing lameness: Evaluating the effectiveness of herd performance benchmarking and integrated, web-based risk management

VANLEEUEWEN J, MCKENNA S, RICHARDS S, GITAU G. Research and training to improve stall design and management for better cow welfare and productivity on smallholder dairy farms in Kenya—Phase 2

GRADUATE STUDENTS FUNDED OR PARTIALLY FUNDED BY THE SJDWC

Degrees awarded

FRÉDÉRIC CHATIGNY. MSC. Assessing the efficacy and side effects of lidocaine used as an analgesic on rainbow trout (*Oncorhynchus mykiss*)

KETAN JUNG DULAL. MSC. Risk factors affecting wing injuries of broiler chickens at a slaughter plant in New Brunswick, Canada

SHAUNA RICHARDS. PHD. Productivity and welfare of cows on smallholder dairy farms in Kenya

Current students

KIM FOOTE. Appropriate prognosis and treatment of horses with respiratory disease—assessing microscopic area and sample volume of bronchoalveolar lavage fluid

EMILY KATHAMBI KIUGU. Research and training to improve stall design and management for better cow welfare and productivity on smallholder dairy farms in Kenya—Phase 2

MEGAN ROBERTSON. Achieving meaningful improvements in dairy cow welfare by reducing lameness: Evaluating the effectiveness of herd performance benchmarking and integrated, web-based risk management

JAMYE ROUETTE. Risk factors for musculoskeletal injuries in a population of Standardbred racehorses on PEI

PUBLICATIONS

CAFFREY NP, DOHOO IR, COCKRAM MS. 2017. Factors affecting mortality risk during transportation of broiler chickens for slaughter in Atlantic Canada. *Preventive Veterinary Medicine* 147:199-208.

CHATIGNY F, KAMUNDE C, CREIGHTON C, STEVENS ED. 2017. Uses and doses of local anesthetics in fish, amphibians, and reptiles. *Journal of the American Association for Laboratory Animal Science* 56(3):1-10.

COCKRAM MS. 2017. Understanding the effects of handling, transportation, lairage and slaughter on cattle welfare and beef quality. In: Dikeman M, ed. *Ensuring Safety and Quality in the Production of Beef*. Vol 2. Cambridge, UK: Burleigh Dodds Science Publishing Limited 135-179.

CROOK A. 2017. Maltraitance animale: une intervention vétérinaire efficace (Animal abuse: Effective veterinary response). *Le Veterinarius* 33(2):67-71 (translated by the OMVQ). https://www.omvq.qc.ca/DATA/DOCUMENT/421_fr~v~avril-2017-vol-33-no2.pdf

ELLIS JJ, STRYHN H, SPEARS J, COCKRAM MS. 2017. Environmental enrichment choices of shelter cats. *Behavioural Processes* 141: 291-296.

SAAB M, MUCKLE CA, STRYHN H, MCCLURE JT. 2017. Comparison of culture methodology for the detection of methicillin-resistant *Staphylococcus pseudintermedius* in clinical specimens collected from dogs. *Journal of Veterinary Diagnostic Investigation* 1-6. <http://journals.sagepub.com/doi/10.1177/1040638717729396>

SAAB ME, WEESE JS, MCCLURE JT. 2017. Direct repeat unit (dru) typing and antimicrobial resistance of methicillin-resistant *Staphylococcus pseudintermedius* isolated from dogs in Atlantic Canada. *Canadian Journal of Veterinary Research* 81:192-198.

NATIONAL FARM ANIMAL CARE COUNCIL. 2017. (Cockram MS; contributor) Code of Practice for the care and handling of veal cattle. nfacc.ca/pdfs/codes/veal_cattle_code_of_practice.pdf

PRESENTATIONS

(poster) CAFFREY NP, DOHOO IR, COCKRAM MS. 2017. Factors affecting mortality risk during transportation of broiler chickens for slaughter in Atlantic Canada. Canadian Association of Veterinary Epidemiology and Preventative Medicine Conference, University of Calgary, Calgary, June.

COCKRAM M. 2017. Transport of sheep. PEI Sheep Breeders Association, Charlottetown, January.

COCKRAM M. 2017. Oral presentation as witness representing CVMA at the Standing Committee on Agriculture and Agri-Food (AGRI) for session on Amendments to Health of Animals Regulations (Humane Transportation), Ottawa, April.

COCKRAM M. 2017. Animal Welfare: Large Animals—Fitness for Transport. 2017 Canadian Veterinary Medical Association Convention Scientific Proceedings. Charlottetown, PEI, July. 199–203.

COCKRAM M. 2017. Animal Welfare: Large Animals—Welfare of Veal Calves. 2017 Canadian Veterinary Medical Association Convention Scientific Proceedings. Charlottetown, PEI, July. 204–209.

COCKRAM MS. 2017. Livestock transport and slaughter: Fitness for transport. Book of Abstracts of the 68th Annual Meeting of the European Federation of Animal Science, Tallinn, Estonia. Wageningen Academic Publishers, The Netherlands. 381.

COCKRAM M. National Farm Animal Care Council, Transportation Code of Practice, Scientific Committee report presentation on equine transport. National Farm Animal Care Council, Ottawa, December.

COCKRAM M. National Farm Animal Care Council, Transportation Code of Practice, Scientific Committee report presentation on sheep transport. National Farm Animal Care Council, Ottawa, December.

CROOK A, LING K. 2017. Welfare-Friendly Feline Veterinary Practice. Feline Behaviour conference, Charlottetown, September.

(poster) JEWELL M, CAMERON M, SANCHEZ J, COCKRAM M, KEEFE G, MCKENNA S, SPEARS J. 2017. On-line benchmarking of welfare assessments on dairy farms to help producers to improve welfare. *Proceedings of the 7th International Conference on the Assessment of Animal Welfare at Farm and Group Level*. Ede, The Netherlands, September. Eds: De Jong IC, Koene P. Wageningen Academic Publishers, The Netherlands. 174.

Newsletters and non-peer reviewed publications

SJDAWC News #33—Winter 2017

awc.upei.ca/newsletters/

“Animal Talk”—a bi-monthly newspaper column on issues related to companion animal welfare; Ed. A Crook princeedwardisland.ca/en/information/agriculture-and-fisheries/companion-animal-welfare-initiative-cawi

EDUCATION

VHM125 Year 1 course Animal Behaviour and Animal Welfare

VHM412 Year 4 course Animal Welfare Regulation and Assessment

COCKRAM MS. Coach for AVC student team in the Veterinary Division of the 2017 annual Animal Welfare Judging and Assessment Contest, Iowa State University, Ames, IA. November

COCKRAM MS. Supervisor, Global Affairs Canada Scholarship (Emerging Leaders in the Americas Program) for Ana Beatriz Almeida Torres, Master’s student, Federal University of Santa Catarina, Florianópolis, Brazil, to undertake a research project as an international exchange student studying temperament in Standardbred horses. November 2017 to April 2018

2017 SJD Animal Welfare Summer Research Award

MAIA COURTENAY. Evaluation of non-anthropomorphic rearing of baby birds in the AVC Wildlife Service

Student poster presentations

COURTENAY M, SPEARS J, DE BIE F. 2017. An evaluation of non-anthropomorphic rearing of baby birds in the Atlantic Veterinary College Wildlife Service. AVC Summer Research and Leadership Program.

MILLS M, MCDUFFEE L, MCNIVEN M, MONTELPARE W. 2017. Reliability of equine heart rate variability. AVC Summer Research and Leadership Program.

NORTHRUP J, MCDUFFEE L, MCNIVEN M. 2017. A comparison of the effectiveness of positive and negative reinforcement for behaviour modification of equids with aversion to administration of oral medications. AVC Summer Research and Leadership Program.

COMMITTEE/BOARD MEMBERSHIPS

M COCKRAM

- » Board of Directors, Atlantic Poultry Research Institute
- » Editorial Board, Section Editor, “Behaviour, Health, and Welfare” for *Animal: International Journal of Animal Biosciences*
- » Editorial board, *Journal of Applied Animal Welfare Science*
- » NFACC Veal Cattle Code
 - » Co-chair of Scientific Committee.
 - » Member of NFACC Veal Cattle Code Development Committee
- » NFACC Transport Code
 - » Member of Scientific Committee
- » Member of Canadian Veterinary Medical Association Animal Welfare Committee
- » International Society for Applied Ethology Congress Advisory Committee and local organiser for ISAE 2018, July 30 –August 3, at the University of Prince Edward Island (isae2018.com)
- » Natural Sciences and Engineering Research Council of Canada (NSERC) Site Visit Committee to review proposals for NSERC Industrial Research Chair
 - » Committee Chair, University of Saskatchewan, June
 - » Member of Committee, University of British Columbia at Okanagan, January

A CROOK

- » Board of Directors, Canadian Federation of Humane Societies
- » Chair, PEI Companion Animal Welfare Initiative
- » Vice-Chair, Appeal Board for PEI Animal Welfare Act
- » Canadian Veterinary Medical Association Small Animal Sub-committee of Animal Welfare Committee

AWARDS

- » 2017 Sir James Dunn Animal Welfare Graduate Scholarship
 - » Peter Kimeli (Kenya), BVM, MVS; three years of PhD funding to work with Dr. John VanLeeuwen, AVC, on the project, “Cohort and controlled trial studies of dairy calf welfare and its factors within smallholder zero-grazing farms in Kenya”
- » 2017 Christofor Award in Animal Welfare
 - » Ellen Boyd
- » Dr. Tom A. W. Taylor Scholarship 2017
 - » Emma Gillis
- » 2016 AVC Atlantic Award of Excellence in Veterinary Medicine and Animal Care (awarded July 2017)
 - » Dr. Alice Crook

FUNDING

- » Sir James Dunn and Christofor Foundations: founding and sustaining funding
- » Multi-year donors: Halifax Veterinary Hospital, Fairview Animal Hospital, Central Nova Animal Hospital, Vetcetera Animal Hospital, Glenn Loranger, the late David Madren, the late Kay Alexandor, Gladys Ascah
- » Project funding:
 - » Research support—Canadian Poultry Research Council, Veterinarians Without Borders—Canada, Dairy Farmers of Canada
 - » Pegasus feral cat neuter program—Pegasus Family Foundation through Silicon Valley Community Foundation
 - » Pegasus Helping Hand Fund—Pegasus Family Foundation through Silicon Valley Community Foundation, AVC classes of 2011 and 2001, Dr. Christine Savidge
 - » Chinook Project—Government of Newfoundland and Labrador, Ann McCain Evans, Rathlyn Foundation, Iqaluit Humane Society, First Air, Zoetis Animal Health, Boehringer-Ingelheim, Air Labrador, Veterinarians Without Borders—Canada, and the Victoria Kennel Club

- » Universities Federation of Animal Welfare, UK (student initiatives)
- » Many other generous individual supporters *in memoriam*

CONTACT INFORMATION

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