



# SJDAWC

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



PROMOTING ANIMAL WELFARE THROUGH RESEARCH, SERVICE, AND EDUCATION

# 2019 ANNUAL REPORT

ATLANTIC VETERINARY COLLEGE  
UNIVERSITY OF PRINCE EDWARD ISLAND  
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# 1 SJDAWC 2019 ANNUAL REPORT

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

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## 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

- » DR. GREG KEEFE, Dean, AVC, Management Board Interim Chair (ex-officio)
- » DR. KATY PROUDFOOT, Director, SJDAWC (ex-officio)
- » DR. MICHAEL COCKRAM, Chair in Animal Welfare (ex-officio)
- » MS. ANNA MACDONALD, AVC External Relations Officer (ex-officio)
- » DEPARTMENTAL REPRESENTATIVES
  - » DR. SUNNY HARTWIG, Department of Biomedical Sciences
  - » DR. JENNIFER BURNS, Department of Health Management
  - » DR. ORIANA RAAB, Department of Companion Animals
  - » DR. ANNE MUCKLE, Department of Pathology and Microbiology
- » DR. CAROLYN SANFORD, Chief Provincial Veterinarian, Government of Prince Edward Island (external representative to the Management Board)

## SJDAWC ACTIVITIES IN 2019

### AVC Winter Webinar Series (February/March)

Three webinars given by Karen L Overall, MA, VMD, PhD, DACVB, on the following topics: 1) Behavioural and welfare concerns for rescued dogs; 2) What do we know about common aggressions in dogs and cats; and 3) Emergent data in behavioural medicine: 10 findings that will change the way you think and practice.

### 15th annual Animal Welfare in Practice Conference: Dairy cow welfare assessment (September)

Keynote speaker: Dr. Katy Proudfoot (Incoming Director, SJDAWC), with Nancy Douglas (Dairy Farmers of PEI), and Dr. Shawn McKenna (AVC).

Co-hosted with the AVC Animal Welfare and the AVC Bovine Clubs, with support from the Animal Welfare Foundation of Canada. Speakers' presentations may be found at <http://awc.upei.ca/animal-welfare-in-practice-dairy-cow-welfare-assessment/>

### GRANTS AWARDED

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

### SERVICE

#### Service grants 2019

CAREY AM. AVC humane dog training program (2019–20), with the PEI Humane Society (PEIHS)

CROOK A, LING K, GUNN MCQUILLAN H, MACLEAN R, PROUDFOOT K. Pegasus feral cat neuter program (2019–2020), with the PEI Cat Action Team (CAT)

CROOK A, GUNN MCQUILLAN H, MACLEAN R, PROUDFOOT K. Pegasus Helping Hand Fund (2019–2020)

FOLEY P. Neutering feral cats on PEI (2019–21), with the PEI Cat Action Team (CAT)

FOLEY P. Financial aid for spay or neuter of companion animals of owners on fixed income (2019–21), with SpayAid PEI

RAAB O. AVC Wildlife Service (2019–21)

VANLEEUEWEN J, RICHARDS S. Youth Training in Animal Welfare in Kenya and Canada—Phase 4 (2019–20), with several community partners

### **On-going service projects**

GUNN MCQUILLAN H, FOLEY P, MACDONALD R, MACLEAN M, MACLEAN R, MOAK P. Medical and surgical care of homeless animal, with the PEIHS

HOPSON M, GILROY C. Chinook Project (funded independently since 2011)

MUIRHEAD T, CONBOY G, MACMILLAN K. Health management services for Handibear Hills Equine Sanctuary, Inc.

Please visit [http://awc.upei.ca/Service\\_projects/](http://awc.upei.ca/Service_projects/) for more information about these and other service projects and outreach.

### **RESEARCH**

#### **Research grants 2019**

BERNARD, P. Ultrasonic vocalizations: A non-invasive ethologically relevant tool to assess home cage welfare in rats (2019–2020)

STOUGHTON WB, NEILSEN M. Anthelmintic resistant cyathostomes: A threat to equine welfare on Prince Edward Island (2019–2020)

STOUGHTON WB, BRESSAN N. Development of an equine nasogastric intubation simulator as an aid or alternative to the use of animals in teaching (2019–2020)

#### **On-going research projects**

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

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

HEIDER L, VANLEEUVEN J, MCKENNA S, GITAU G, KIMELI P. Frequency, distribution, determinants and improvements of calf affective welfare status on smallholder dairy farms in Kenya (observational and clinical trials)

MCDUFFEE L, MONTELPARE W, OVERALL K. Recognition of stress levels in hospitalized equine patients during various veterinary procedures: Adaptation of a stabled horse stress scale to a cohort of hospitalized horses

MELLISH M, DAOUST P-Y, VANDERSTICHEL R. Assessment of welfare of Sable Island horses through morphometric and radiographic hoof evaluation

### **GRADUATE STUDENTS FUNDED OR PARTIALLY FUNDED BY THE SJDAWC**

#### **Current students**

LOGAN BIGELOW. Ultrasonic vocalizations analysis: A non-invasive ethologically relevant tool to assess home cage welfare in rats (with P Bernard)

MARIANA FONSECA. Assessment of antimicrobial stewardship on animal welfare, animal health and antimicrobial resistance on dairy farms (with J Sanchez and L Heider)

ANAM HANZA. Recognition of stress levels in hospitalized equine patients during various veterinary procedures: Adaptation of a stabled horse stress scale to a cohort of hospitalized horses (with L McDuffee)

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

PETER KIMELI. Cohort and controlled trial studies of dairy calf welfare and its factors within smallholder zero-grazing farms in Kenya (with J VanLeeuwen)

JAMYE ROUETTE. Risk factors for musculoskeletal injuries in a population of Standardbred racehorses on PEI (with K MacMillan and M Cockram)

MADELINE STEIN. Evaluation of pet-owner and veterinary knowledge, attitudes and practises surrounding antimicrobial use and prescribing practises for companion animals in Canada (with M Evason and J McClure)

## PUBLICATIONS

- COCKRAM M. 2019. Fitness of animals for transport to slaughter. *The Canadian Veterinary Journal*. 60:423-9.
- COCKRAM, M. 2019. Sheep Transport. In *Livestock Handling and Transport*, 5th Edition. Edited by T. Grandin. CABI Publishing, Wallingford, Oxon, UK. P 239-253.
- COCKRAM M, DULAL K, MOHAMED R, REVIE, C. 2019. Risk factors for bruising and mortality of broilers during manual handling, module loading, transport and lairage. *Canadian Journal of Animal Science* 99: 50-65.
- COCKRAM M, SIEGFORD J, CAMERLINK I. 2019. Preface for the Special Issue of the 52nd International Congress of the ISAE. ISAE 2018. Edited by J. Siegford, I. Camerlink and M. Cockram. *Applied Animal Behaviour Science* 223.
- JEWELL M, CAMERON M, SPEARS J, MCKENNA S, COCKRAM M, SANCHEZ J, KEEFE G. 2019. Prevalence of lameness and associated risk factors on dairy farms in the Maritime Provinces of Canada. *Journal of Dairy Science* 102:3392-405.
- JEWELL M, CAMERON M, SPEARS J, MCKENNA S, COCKRAM M, SANCHEZ J, KEEFE G. 2019. Prevalence of hock, knee, and neck skin lesions and associated risk factors in dairy herds in the Maritime Provinces of Canada. *Journal of Dairy Science* 102:3376-91.
- KATHAMBI E, VANLEEUEWEN J, GITAU G, KAMUNDE C. 2019. Risk factors associated with cows' lying time, stall and cows' own cleanliness in smallholder dairy farms in Kenya. *Veterinary World* 12:1085.
- ROY R, RILEY C, STRYHN H, DOHOO I, COCKRAM M. 2019. Infrared thermography for the ante mortem detection of bruising in horses following transport to a slaughter plant. *Frontiers in Veterinary Science* 17:344-349.

## PRESENTATIONS

- COCKRAM M. 2019. The veterinary profession and animal welfare. 7th Pan Commonwealth Veterinary Conference, Bangalore, India.
- CROOK A. 2019. Presentations on behalf of the Canadian Veterinary Medical Association in support of Bill C-84, An Act to Amend the Criminal Code pertaining to Bestiality and Animal Fighting
- » House of Commons Standing Committee on Justice and Human Rights, February 5
  - » Senate Committee on Social Affairs, Science and Technology, June 12
- (Bill C-84 passed in both the House of Commons and the Senate and received Royal Assent June 21.)
- CROOK A. 2019. Update on cat declawing in Canada: The times they are a-changin'. AVC Animal Welfare Club, March 6.
- CROOK A. 2019. Update on cat declawing in Canada: The times they are a-changin'. Panel discussion at the National Animal Welfare Conference, Humane Canada, April 14, Montreal.
- PROUDFOOT K. 2019. Social stress in dairy cows during the periparturient period. Penn State Dairy Nutrition Conference, November 5, Pennsylvania, USA.
- PROUDFOOT K. 2019. Designing the maternity pen with the cow in mind. Penn State Dairy Nutrition Conference, November 5, Pennsylvania, USA.
- PROUDFOOT K. 2019. Designing the maternity pen around the behavior of the dairy cow. Visiting Speaker Series at the Faculty of Agriculture, Dalhousie University, October 11, Truro, Canada.

## Newsletters and non-peer reviewed publications

SJDAWC News #35—2019  
<http://awc.upei.ca/sjdawc-news-35/>

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



## EDUCATION

BATES L, PROUDFOOT K. VBS 1030 Year 1 course: Animal Behaviour and Animal Welfare

COCKRAM M. VHM-8810-1 Graduate Course: Animal Welfare

COCKRAM M. Coach for AVC student team in the veterinary division of the 2019 Annual Animal Welfare Assessment Contest, Colorado State University, Fort Collins, CO. November 2019.

## COMMITTEE/BOARD MEMBERSHIPS

### M COCKRAM

- » Section Editor: Welfare and Behaviour, *Animal: the International Journal of Animal Biosciences*
- » Chair, Large Animal/Exotic-Wild Subcommittee, Canadian Veterinary Medical Association Animal Welfare Committee
- » Member of ISAE Congress Advisory Committee and co-editor for ISAE 2018 special edition of *Applied Animal Behaviour Science*, International Society for Applied Ethology
- » Member of Transport Code Development Committee and member of sheep and equine working groups for Transport CDC, National Farm Animal Care Council
- » Member of Board, Atlantic Poultry Research Institute

### A CROOK

- » Board of Directors, Humane Canada (formerly Canadian Federation of Humane Societies)
- » PEI Companion Animal Welfare Initiative
- » Vice-Chair, Appeal Board for PEI Animal Welfare Act

### K PROUDFOOT

- » Editorial board, *Journal of Applied Animal Welfare Science*
- » Committee Member, 39th American Dairy Science Association Discover Conference
- » Alternate member, American Veterinary Medical Association Animal Welfare Committee

## AWARDS

- » 2019 Sir James Dunn Animal Welfare Graduate Scholarship
  - » Logan Bigelow, MSc (2-year funding towards PhD program). Project title: Ultrasonic vocalizations analysis: A non-invasive ethologically relevant tool to assess home cage welfare in rats
  - » Mariana Fonseca, DVM, MSc (1.5-year funding towards PhD program). Project title: Assessment of antimicrobial stewardship on animal welfare, animal health and antimicrobial resistance on dairy farms
  - » Madeline Stein, BVM (2-year funding toward MSc program). Project title: Evaluation of pet-owner and veterinary knowledge, attitudes and practices surrounding antimicrobial use and prescribing practices for companion animals in Canada
- » 2019 Sir James Dunn Animal Welfare Summer Research Award
  - » Andrew Cohen
- » 2019 Christofor Award in Animal Welfare
  - » Jessica D'Amico
- » 2019 Dr. Tom A. W. Taylor Scholarship
  - » Kyrsten Landry

## FUNDING

- » Sir James Dunn and Christofor Foundations: founding and sustaining funding
- » Multi-year donors: Fairview Animal Hospital, Vetcetera Animal Hospital, Glenn Loranger, the late David Madren, Gladys Ascah, Derek Mathers, Andrea and Arthur Hill
- » Project funding:
  - » Research support: Veterinarians Without Borders—Canada; Dairy Farmers of Canada
  - » Pegasus feral cat neuter program: Pegasus Family Foundation, an advised fund of the Silicon Valley Community Foundation
  - » Pegasus Helping Hand Fund: Pegasus Family Foundation, an advised fund of the Silicon Valley Community Foundation; AVC classes of 2001 and 2011; Dr. Christine Savidge

- » Chinook Project: Government of Newfoundland and Labrador, 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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