

CURRICULUM VITAE

Hans Christian Haverkamp, Ph.D. **Associate Professor of Health Sciences**

Professional Address

Johnson State College
Department of Environmental & Health Sciences
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Johnson, Vermont 05656

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EDUCATION

University of Vermont (Spring 2005 – Summer 2007)

Department of Medicine, Vermont Lung Center, Burlington, VT
Post-doctoral Research Fellow
Lung structure-function relationships in mice with allergic airways disease
Mentor: Charlie Irvin, Ph.D.

University of Wisconsin – Madison

Department of Kinesiology, Madison, WI
Degree: Doctor of Philosophy (Ph.D.): December, 2004
Major: Kinesiology with an emphasis in Exercise Physiology
Minor: Distributive minor including courses in immunology (BACT 528), genetics (ZOO 466), and functional neuroanatomy (ANAT 637)
Dissertation: Determinants of Arterial Blood Gas Status During Exercise in Habitually Active Asthmatics
Mentor: Jerome Dempsey, Ph.D.

Northern Arizona University

Department of Health Promotion and Exercise Science, Flagstaff, AZ
Degree: Master of Arts (M.A.) in Physical Education: August, 1998
Major: Exercise Science with an emphasis in Exercise Physiology
Thesis: Respiratory Muscle and Pulmonary Function After Actual and Simulated Exercise: Effect of Hyperpnea Training
Mentor: Richard Coast, Ph.D.

Ithaca College

Department of Health Science and Human Performance, Ithaca, NY
Degree: Bachelor of Arts (B.A.) in Physical Education with Health minor: May, 1994

PROFESSIONAL EXPERIENCE

Associate Professor of Health Sciences: August 2013 – Present
Johnson State College, Johnson, VT
Department of Environmental & Health Sciences

Assistant Professor of Health Sciences: August 2007 – May 2013
Johnson State College, Johnson, VT
Department of Environmental & Health Sciences

Director, Exercise Physiology Laboratory: August 2007 – Present
Johnson State College, Johnson, VT

Post-Doctoral Research Fellow: April 2005 – June 2007
University of Vermont, Burlington, VT
College of Medicine, Vermont Lung Center

Pre-Doctoral Research Assistant: September 1999 – December 2004
University of Wisconsin – Madison
John Rankin Laboratory of Pulmonary Medicine

Consultant & Exercise Testing Technician: August 1998 – July 1999
Northern Arizona University, Flagstaff, AZ
High Altitude Sports Training Complex

Instructor of Exercise Physiology & Co-Laboratory Coordinator: May 1998 – July 1999
Northern Arizona University, Flagstaff, AZ
Department of Health Promotions and Exercise Science

Research Mentor: Summer 1998
Northern Arizona University, Flagstaff, AZ
Four-Corners Mathematics and Science Program

Graduate Assistant Exercise Physiologist: August 1997 – May 1998
Northern Arizona University, Flagstaff, AZ
High Altitude Sports Training Complex

Graduate Teaching Assistant in Exercise Physiology: January 1997 – May 1998
Northern Arizona University, Flagstaff, AZ
Department of Health Promotions and Exercise Science

Graduate Research Assistant: September 1996 – May 1998
Northern Arizona University, Flagstaff, AZ
Department of Health Promotions and Exercise Science

Office Assistant, General Instructional Programs in Physical Education:

January 1992 – May 1994

Ithaca College, Ithaca, NY

HONORS and AWARDS

- Vermont State College Faculty Fellow, AY 2018-19'
- Excellence in Advising, Johnson State College, AY 2015-16'
- Awarded one year sabbatical, AY 2014-15'
- Awarded tenure and promotion to Associate Professor, April, 2013
- Funded by National Institutes of Health Training Grant (T-32 HL 076122), University of Vermont, Post-doctoral research fellow, April, 2005 – June, 2007
- Funded by National Institutes of Health Training Grant (T-32), University of Wisconsin-Madison, Doctoral training, 1999-2004
- Cum Laude Graduate, Ithaca College, 1994
- Honor Society of Phi Kappa Phi, Chapter # 201
- Deans Award, Outstanding undergraduate student in the College of Health Science & Human Performance, Ithaca College, 1994

TEACHING EXPERIENCE

Course Instructor

- Anatomy and Physiology with Lab, Semesters I and II (BIO-2011, 2012), Johnson State College
- Cardiopulmonary Assessment, Rehabilitation and Training with Lab (AHS-4060), Johnson State College
- Health Sciences Seminar (AHS-2100), Johnson State College
- Introduction to Pharmacology (AHS-3050), Johnson State College
- Kinesiology (AHS-3120), Johnson State College
- Lifetime Fitness (AHS-1080), Johnson State College
- Nutrition (BIO-3180), Johnson State College
- Physiology of Exercise with Lab (AHS-3230), Johnson State College
- Strength & Conditioning (AHS-2130), Johnson State College
- Exercise Physiology (EXS 336), Northern Arizona University, 1998-1999
- Exercise Physiology Laboratory (EXS 337), Northern Arizona University, 1997-1999
- Exercise Science for the Teacher and Coach (EXS 300), Northern Arizona University, 1998-1999

Course Lectures

- 2 lectures - Basic Principles of Lung Biology (CLBI 295F), University of Vermont, Fall 2005

Laboratory Demonstrations and Lectures

- University of Wisconsin-Madison: undergraduate Physiology Laboratory, Control of breathing during exercise, Fall semesters 1999-2004
- University of Wisconsin-Madison: Medical School Physiology Laboratory, Spirometry and respiratory muscle function, Spring semesters 1999-2004

- Johnson State College: undergraduate Biology Laboratory, Assessment of metabolic rate at rest and during exercise, Spring 2010, Fall 2010
- Johnson State College: undergraduate Anatomy & Physiology Laboratory, Control of breathing at rest and during exercise, Spring 2010

RESEARCH INTERESTS

- Pulmonary mechanical determinants of airway function during and after exercise in asthma
- Pulmonary system responses to exercise in health and in asthma
- Mechanisms of airways hyperresponsiveness in asthma
- Factors affecting aerobic exercise performance in health and with lung disease

CURRENT RESEARCH PROJECTS

- Quantification of exercise bronchodilatory response in adult asthmatics
- Effects of persistently elevated post-exercise lung volumes on exercise-induced bronchoconstriction
- Lung inflation effects on airway function following hyperpnea challenge in healthy and asthmatic adults
- Airway function (mal)adaptation to repetitive voluntary hyperpnea training in healthy adults

LABORATORY TECHNIQUES – HUMAN

- | | |
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| • Expired gas analysis | • Blood lactate testing and analysis |
| • Indirect calorimetry | • Exercise flow-volume loop analysis |
| • Graded exercise testing | • Body composition |
| • Spirometry | • Nasopharyngeal catheter placement |
| • Oscillation mechanics | • Esophageal and gastric pressure analysis |
| • Body plethysmography | • Methacholine challenge testing |
| • Arterial blood collection and analysis | • Induced sputum collection, processing, analysis |
| • Electrocardiography | • Eucapnic Voluntary Hyperpnea |

LABORATORY TECHNIQUES – MOUSE

- | | |
|--|--|
| • Mechanical ventilation | • External jugular vein catheterization |
| • Methacholine challenge testing | • Tracheostomy, thoracotomy, blood collection |
| • Forced oscillation testing | • Bronchoalveolar lavage collection and analysis |
| • Analysis of pulmonary mechanics | • Morphometric analysis of lung sections |
| • High-resolution computed tomography | • Immunohistochemistry and fluorescence |
| • Histological analysis of lung sections | |

REFEREED PUBLICATIONS

- A. Klansky, C. Irvin, A. Morrison-Taylor, S. Ahlstrand, D. Labrie, **H.C. Haverkamp**. No effect of elevated operating lung volumes on airway function during variable workrate exercise in asthmatic humans. J Appl Physiol. 121: 89-100, 2016.
- P.B. Dominelli, Y. Molgat-Seon, G. Foster, G. Dominelli, **H.C. Haverkamp**, W. Henderson, W. Sheel. Quantifying the shape of maximal flow-volume curves in healthy humans and asthmatic patients. Respir Physiol Neurobiol. 220: 46-53, 2016
- P.B. Dominelli, G. Foster, J. Guenette, **H.C. Haverkamp**, N. Eves, G. Dominelli, W. Henderson, D. O'Donnell, W. Sheel. Quantifying the shape of the maximal expiratory flow-volume curve in mild COPD. Respir Physiol Neurobiol. 219: 30-35, 2015.
- M.J. Rossman, S.K. Nader, D. Berry, F. Orsini, A. Klansky, **H.C. Haverkamp**. Effects of altered airway function on exercise ventilation in asthmatic adults. Med. Sci. Sports Exerc. 46(6): 1104-1113, 2013.
- E.P. Riesenfeld, M.J. Sullivan, J.A. Thompson-Figueroa, **H.C. Haverkamp**, L.K. Lundblad, J.H.T. Bates, and C.G. Irvin. Inhaled salmeterol and/or fluticasone alter structure/function in a murine model of allergic airways disease. Respiratory Research. 11:22, 2010.
- A.T. Lovering, **H.C. Haverkamp**, L.M. Romer, J. Hokanson, and M.W. Eldridge. Transpulmonary passage of 99mTc macroaggregated albumin in healthy humans at rest and during maximal exercise. J. Appl. Physiol. 106(6): 1986-1992, 2009.
- A. Cojocar, C.G. Irvin, **H.C. Haverkamp**, and J.H.T. Bates. Computational assessment of airway wall stiffness *in vivo* in allergically inflamed mouse models of asthma. J. Appl. Physiol. 104(6): 1601-1610, 2008.
- A.T. Lovering, L.M. Romer, **H.C. Haverkamp**, D.F. Pegelow, J. Hokanson and M.W. Eldridge. Intrapulmonary shunting and pulmonary gas exchange in healthy humans during normoxic and hypoxic exercise. J. Appl. Physiol. 104(5): 1418-1425, 2008.
- H.C. Haverkamp** and L.K. Lundblad. Commentary on "The role of the large airways on smooth muscle contraction in asthma." J. Appl. Physiol. 103(4): 1457-1458, 2007.
- J.H. Bates, A. Cojocar, **H.C. Haverkamp**, L.M. Rinaldi, and C.G. Irvin. The synergistic interactions of allergic lung inflammation and intra-tracheal cationic protein. Am. J. Respir. Crit. Care Med. 177(3): 261-268, 2008.
- H.C. Haverkamp**, J.A. Dempsey, D.F. Pegelow, J.D. Miller, L.M. Romer, M. Santana, and M.E. Eldridge. Treatment of airway inflammation improves pulmonary gas exchange and performance during exercise in habitually active asthmatic subjects. J. Allergy Clin. Immunol. 120(1): 39-47, 2007.

A.T. Lovering, L.M. Romer, **H.C. Haverkamp**, J.S. Hokanson, and M.W. Eldridge. Case report: excessive gas exchange impairment during exercise in a subject with a history of bronchopulmonary dysplasia and high altitude pulmonary edema. High Altitude Med. & Biol. 8(1): 62-7, 2007.

L.M. Romer, J.D. Miller, **H.C. Haverkamp**, D.F. Pegelow, and J.A. Dempsey. Inspiratory muscles do not limit maximal incremental exercise performance in trained subjects. Respir. Physiol. and Neurobiol. 156(3): 353-61, 2007.

S. Wagers, **H.C. Haverkamp**, J. Bates, R. Norton, J. Thompson-Figueroa, M. Sullivan, C. Irvin. Intrinsic and antigen induced airway hyperresponsiveness are the result of diverse physiologic mechanisms. J. Appl. Physiol. 102(1): 221-30, 2007.

L.M. Romer, M. Amann, **H.C. Haverkamp**, A.T. Lovering, D.F. Pegelow, and J.A. Dempsey. Effect of acute severe hypoxia on peripheral fatigue and endurance capacity in healthy humans. Am. J. Physiol. Regul. Integr. Comp. Physiol. 292(1): R598-606, 2007.

L.M. Romer, A.T. Lovering, **H.C. Haverkamp**, D.F. Pegelow, and J.A. Dempsey. Effect of inspiratory muscle work on peripheral fatigue of locomotor muscles in healthy humans. J. Physiol. 571(pt 2):425-39, 2006.

L.M. Romer, **H.C. Haverkamp**, A.T. Lovering, D.F. Pegelow, and J.A. Dempsey. Effect of exercise-induced arterial hypoxemia on quadriceps muscle fatigue in healthy humans. Am. J. Physiol. Regul. Integr. Comp. Physiol. 290(2): R365-75, 2006.

H.C. Haverkamp, J.A. Dempsey, J.D. Miller, L.M. Romer, D.F. Pegelow, J.R. Rodman, and M.W. Eldridge. Gas exchange during exercise in habitually active asthmatic subjects. J. Appl. Physiol. 99(5): 1938-50, 2005.

H.C. Haverkamp, J.A. Dempsey, J.D. Miller, L.M. Romer, A.T. Lovering, and M.W. Eldridge. Repeat exercise normalizes the gas exchange impairment induced by a previous exercise bout in asthmatics. J. Appl. Physiol. 99(5): 1843-52, 2005.

M.W. Eldridge, J.A. Dempsey, **H.C. Haverkamp**, A.T. Lovering, and J.S. Hokanson. Exercise-induced intrapulmonary arteriovenous shunting in healthy humans. J. Appl. Physiol. 97: 797-805, 2004.

H.C. Haverkamp & Jerome A. Dempsey. On the normal variability of gas exchange efficiency during exercise: does sex matter? J. Physiology. 557(2): 345, 2004.

H.C. Haverkamp, J.D. Miller, J.R. Rodman, L.M. Romer, D.F. Pegelow, M. Santana, and J.A. Dempsey. Extrathoracic obstruction and hypoxemia occurring during exercise in a competitive female cyclist. Chest. 124: 1602-1605, 2003.

A.J. Rice, H. Nakayama, **H.C. Haverkamp**, D.F. Pegelow, J.B. Skatrud, and J.A. Dempsey. Controlled vs. assisted mechanical ventilation effects on respiratory motor output in sleeping humans. Am. J. Resp. Crit. Care Med. 168:92-101, 2003.

T.J. Wetter, Z. Xiang, D.A. Sonetti, **H.C. Haverkamp**, A.J. Rice, A.A. Abbasi, K.C. Meyer, and J.A. Dempsey. Role of lung inflammatory mediators as a cause of exercise-induced arterial hypoxemia in young male and female athletes. J. Appl. Physiol. 93: 116-126, 2002.

H.C. Haverkamp, M. Metelits, J. Hartnett, K. Olsson, and J.R. Coast. Pulmonary function subsequent to expiratory muscle fatigue in healthy humans. Int. J. Sports Med. 22: 498-503, 2001.

J.R. Coast, **H.C. Haverkamp**, C.M. Finkbone, and R.A. Herb. Pulmonary effects of exercise and voluntary hyperpnea simulating exercise. Int. J. Sports Med. 20: 470-475, 1999.

BOOK CHAPTERS AND INVITED REVIEWS

H.C. Haverkamp and J.J. Duke. Beta-2 Agonist: Use of inhalers by asthmatic athletes: is this really doping? Hackney AC (ed.). *Doping, Performance Enhancing Drugs, and Hormones in Sports: Mechanisms of Action and Methods of Detection.* Elsevier Publishing. New York, New York. 2017. ISBN 9780128134429

H.C. Haverkamp and T. Mickleborough. Exercise-induced bronchoconstriction: pathophysiology, assessment and management. J Clin Exerc Physiol. 5(3): 38-48, December 2016.

H.C. Haverkamp. Chronic responses of the pulmonary system to exercise training. In: Encyclopedia of Exercise Medicine in Health and Disease. Eds. F.C. Mooren & F. Skinner. Berlin Heidelberg New York, Springer Publications, 2012, ISBN 978-3-540-36065-0.

H.C. Haverkamp. Pulmonary system limitations to exercise performance. In: Encyclopedia of Exercise Medicine in Health and Disease. Eds. F.C. Mooren & F. Skinner. Berlin Heidelberg New York, Springer Publications, 2012, ISBN 978-3-540-36065-0.

J.A. Dempsey, D.C. McKenzie, **H.C. Haverkamp**, and M.W. Eldridge. Update in the Understanding of Respiratory Limitations to Exercise Performance in Fit, Active Adults. Chest. 134(3): 613-622, 2008.

H.C. Haverkamp, J.D. Miller, L.M. Romer, M.W. Eldridge, and J.A. Dempsey. Physiological Responses to Exercise. In: The Physiologic Basis of Respiratory Disease. BC Decker Inc. Publisher. Eds. Q. Hamid, J. Shannon, & J. Martin, 2005, chapter 45, pp. 525-540.

A.T. Lovering, **H.C. Haverkamp**, & M.W. Eldridge. Responses and Limitations of the Respiratory System to Exercise. In: Clinics in Chest Medicine: The Lung in Extreme Environments. Eds. R.B. Schoene & S. Ruoss, 2005, volume 26, pp. 439-457.

J.A. Dempsey, A.W. Sheel, **H.C. Haverkamp**, M.A. Babcock, and C.A. Harms. Pulmonary System Limitations to Exercise in Health. Canadian Journal of Applied Physiology. 128:S2-S24, 2003.

J.R. Rodman, **H.C. Haverkamp**, S.M. Gordon, and J.A. Dempsey. Cardiovascular and Respiratory System Responses and Limitations to Exercise. In: Clinical Exercise Testing. Progress in Respiratory Research. Editors: I. Weisman & J. Zeballos. New York, Karger Publications, 2002, Chapter 1, pp1-17.

NON-REFEREED PUBLICATIONS

H.C. Haverkamp. Is Asthma Simply an Allergic Reaction in the Lungs? The Spirogram. Winter, 2006. A quarterly publication by the Vermont Lung Center, University of Vermont, College of Medicine.

H.C. Haverkamp. Exercise-Induced Bronchospasm. The Spirogram. Summer, 2005. A quarterly publication by the Vermont Lung Center, University of Vermont, College of Medicine.

H.C. Haverkamp. The Ins and Outs (and Ups and Downs) of Altitude Training. Peak Running Performance, May-June, 2001.

ABSTRACTS

H.C. Haverkamp, A. Morrison-Taylor, J. Demar, A. Klansky, K. Craig, E. Towers. Effect of daily, high-intensity voluntary hyperpnea on maximal expired airflow and maximal voluntary ventilation. Med Sci Sports Exerc. 50:s5, 2018.

A. Klansky, S. Ahlstrand, D. Labrie, A. Morrison-Taylor, **H.C. Haverkamp**. Increased post-exercise lung volume does not affect exercise-induced bronchoconstriction in asthmatic adults. Med Sci Sports Exerc. 48(5 Suppl 1):457, 2016.

A. Lacayo, Klansky A, Morrison-Taylor A, Demar J, and **H.C. Haverkamp**. Effects of increased ventilation and lung inflation on bronchoconstriction after exercise in asthmatic adults. Presented at New England Region American College of Sports Medicine Annual Fall Meeting, November, 2013

H.C. Haverkamp, Berry D, Klansky A, and S. Nader. Comparison of respiratory system responses to exercise in asthmatic vs. non-asthmatic humans. Med Sci Sports Exerc. 44:s5, 2012

H.C. Haverkamp, Nader S, Berry D, and F. Orsini. Acute, inflammatory-based airflow limitation does not affect pulmonary mechanical responses to exercise in mild-to-moderate asthmatic subjects. Med Sci Sports Exerc. 43:s5, 2011

S. Nader, Berry D, Orsini F, Rossman M, and **H.C. Haverkamp**. Effects of altered pre-exercise airway function on the refractory period to multiple exercise bouts in asthmatic subjects. Presented at New England Region American College of Sports Medicine Annual Fall Meeting, November, 2010.

D. Berry, Nader S, Orsini F, Rossman M, and **H.C. Haverkamp**. Effects of altered pre-exercise lung function on the airway response to exercise in asthmatic adults. Presented at New England Region American College of Sports Medicine Annual Fall Meeting, November, 2010.

H.C. Haverkamp, Lepeley K, Nader S, Orsini F, Berry D, and M. Rossman. Airway function during exercise in asthmatics is homogeneous despite heterogeneous airway function prior to exercise. Med Sci Sports Exerc. 42:s5, 2010

H.C. Haverkamp, Lepeley K, Nader S, Orsini F, Berry D, and M. Rossman. Altered pre-exercise airway function does not affect responses to whole-body exercise in mild-to-moderate asthmatic subjects. Presented at New England Region American College of Sports Medicine Annual Fall Meeting, November, 2009.

Riesenfeld EP, Rinaldi LM, Sullivan MA, Thompson-Figueroa JA, **Haverkamp HC**, Skelly JM, Bates JHT, C.G. Irvin. Airway Remodeling: Effects of Fluticasone and/or Salmeterol in a Mouse Model of Asthma. Am J Respir Crit Care Med. 177:A944, 2008.

J.H.T. Bates, A. Cojocar, **H.C. Haverkamp**, C.G. Irvin. Bronchoconstriction dynamics reflects airway wall stiffness in mice. 2007 Biomedical Engineering Society Annual Meeting. September 26-29, 2007, Los Angeles, CA.

H.C. Haverkamp, J.H.T. Bates, and C.G. Irvin. Evolution of airways hyperresponsiveness and its physiologic basis after chronic allergic airways disease. Am J Respir Crit Care Med. 175: A156, 2007.

A. Cojocar, **H.C. Haverkamp**, C.G. Irvin, and J.H.T. Bates. Synergistic mechanisms of airways hyperresponsiveness; dependence on mouse strain. Am J Respir Crit Care Med. 175: A156, 2007

A.T. Lovering, **H.C. Haverkamp**, L.M. Romer, J.S. Hokanson, J.A. Bianco and M.W. Eldridge. Quantification of Intrapulmonary Anatomic Shunt Induced by Exercise in Healthy Humans. FASEB J. 20(4): A394, 2006.

H.C. Haverkamp, M.W. Eldridge, J.D. Miller, J.M. Romer, J.A. Dempsey. Treatment of airway inflammation improves arterial blood gas status during exercise in habitually active asthmatics. Am J Respir Crit Care Med. 2:A304, 2005.

H.C. Haverkamp, M.W. Eldridge, J.D. Miller, L.M. Romer, D.F. Pegelow, J.A. Dempsey. Gas exchange during exercise in habitually active asthmatic subjects. Med Sci Sports Exerc. 37:5, S450, 2005.

L.M. Romer, A.T. Lovering, **H.C. Haverkamp**, D.F. Pegelow, J.A. Dempsey. Effect of severe hypoxia on endurance capacity and quadriceps muscle fatigue in healthy humans. Med Sci Sports Exerc. 37:5, S296, 2005.

L.M. Romer, **H.C. Haverkamp**, A.T. Lovering, D.F. Pegelow, J.A. Dempsey. Endurance exercise-induced arterial hypoxemia exacerbates quadriceps muscle fatigue in cyclists. The Physiologist. 47:4, 2004.

H.C. Haverkamp, J.A. Dempsey, J.S. Hokanson, D.F. Pegelow, J. Beebe, M.W. Eldridge. Exercise recruits dormant intrapulmonary arteriovenous shunts in healthy subjects. Med Sci Sports Exerc. 36:5, S0857, 2004.

H.C. Haverkamp, M.W. Eldridge, J.D. Miller, L.M. Romer, M. Santana, J.A. Dempsey. Acute Exercise Improves Gas Exchange Efficiency in Asthmatic Subjects with Airway Obstruction. Am J Resp Crit Care Med. 169: A692, 2004.

L. Romer, J. Miller, **H. Haverkamp**, D. Pegelow, J. Dempsey. Inspiratory Muscle Work Does Not Limit Maximal Incremental Exercise Performance. The FASEB Journal. 18: A1294, 2004.

T. Rice, H. Nakayama, **H.C. Haverkamp**, M. Satoh, J. Skatrud, and J.A. Dempsey. Non-Chemical Elimination of Inspiratory Motor Output in Mechanically Ventilated Sleeping Humans. Am J Resp Crit. Care Med. 163: A484, 2001.

H.C. Haverkamp, T.J. Wetter, D.F. Pegelow, and J.A. Dempsey. Ventilatory Responses to High Intensity Constant Load Exercise in Women Runners. Med Sci Sports Exerc. 33: S59, 2001.

R.P. Morrison, **H.C. Haverkamp**, I.S. Ho, and J.R. Coast. Pulmonary Function After Exercise in Competitive Female Mountain Bikers. Med Sci Sports Exerc. 32(5): S155, 2000.

H.C. Haverkamp, C.M. Finkbone, K.L. Anderson, S.O. George, R. Coffey, R.A. Herb, and J.R. Coast. Respiratory Muscle and Pulmonary Function Following Actual and Simulated Exercise: Effect of Hyperpnea Training. Med Sci Sports Exerc. 31(5): S168, 1999.

J.R. Coast, **H.C. Haverkamp**, C.M. Finkbone, and R.A. Herb. Pulmonary Function After Actual and Simulated Exercise. FASEB J. 12:A1042, 1998.

INVITED PROFESSIONAL PRESENTATIONS and SYMPOSIA

Meeting: New England American College of Sports Medicine Annual Fall Meeting, October, 2016

Session: Invited presentation for meeting clinical track

Presentation Title: Airway Function During and After Exercise in Health and Asthma

Meeting: American College of Sports Medicine Annual Meeting, June, 2015

Session: Graduate and Early Career Day Pre-Conference Event

Invited panelist: R1 vs. R2 vs. R3 schools – what’s the difference and what are the expectations of assistant professors at each?

Meeting: New England American College of Sports Medicine Annual Fall Meeting, November, 2014

Session: Invited presentation for meeting clinical track

Presentation Title: Exercise-induced bronchospasm: causes, consequences, management

Meeting: American College of Sports Medicine Annual Meeting, June, 2013

Symposium Title: “Control of airway function during and after exercise in the asthmatic”

Presentation Title: Lung mechanical influences on airway function during and after exercise in the asthmatic

Meeting: American College of Sports Medicine Annual Meeting, June, 2011

Symposium Title: “New insights into airway function during and after exercise in the asthmatic athlete”

Presentation Title: Airway function during exercise in asthmatic humans

OTHER PROFESSIONAL PRESENTATIONS

A. Klansky, S. Ahlstrand, D. Labrie, A. Morrison-Taylor, **H.C. Haverkamp**. Effects of persistently elevated lung volume and minute ventilation on exercise-induced bronchoconstriction. Poster presentation at Northeast Regional IDeA Conference. Burlington, VT, August, 2017.

Healthy Learning (www.healthylearning.com), Monterey, CA

Delivered four DVD lectures on pulmonary system, asthma, and exercise-induced asthma, July, 2014

H.C. Haverkamp. Control of Airway Function During and After Exercise in the Asthmatic Adult. Vermont Genetics Network Annual Retreat. Burlington, VT, August 7, 2013

H.C. Haverkamp. Airway Function During Exercise in Asthmatic Humans. Vermont Genetics Network 9th Annual Retreat. Burlington, VT, August 10, 2010.

H.C. Haverkamp. Exercise in the Asthmatic. John Rankin Laboratory of Pulmonary Medicine Reunion. University of Wisconsin-Madison, Madison, WI, May 26, 2007.

A.T. Lovering, **H.C. Haverkamp**, J.S. Hokanson, D.F. Pegelow, L.M. Romer, and M.W. Eldridge. Exercise-Induced Intrapulmonary Shunt. Rankin Memorial Symposium on Blood Flow Regulation and Endothelial Function. Madison, WI, 2004.

H.C. Haverkamp. Altitude Training: Does it Enhance Sea-Level Endurance Performance? Oral Presentation at the 2nd Annual Symposium of Sports Science, High Altitude Sports Training Complex, Northern Arizona University, February 1999

H.C. Haverkamp. Physiologic Adaptations to Altitude Training. Oral Presentation at the National Collegiate Athletic Association Annual Swimming Conference, Prescott AZ, June, 1998.

RESEARCH GRANTS

Completed Grant Support

Vermont Genetics Network Pilot Award (Competitive renewal)

Title: Control of airway mechanical function during exercise in asthma

Role: Principal investigator

Purpose: Provided funds to support research, including summer salary for the PI and research related expenses including equipment, supplies, subject remuneration, etc.

Period of Support: June 2013 – May 2014

Vermont Genetics Network Project Award (Competitive renewal)

Title: Control of airway mechanical function during exercise in asthma

Role: Principal investigator

Hans Haverkamp, Ph.D.

Curriculum Vitae, June 2018

Purpose: Provided one year of summer salary for the PI, and one year of research related expenses including equipment, supplies, subject remuneration, etc.

Period of Support: June 2012 – May 2013

Vermont Genetics Network Project Award (Competitive renewal)

Title: Baseline airway mechanical function and airway function during exercise in asthma

Role: Principal investigator

Purpose: Provided one year of summer salary for the PI, and one year of research related expenses including payment of lab technician, equipment and supplies, subject remuneration, etc.

Period of Support: June 2011 – May 2012

Vermont Genetics Network Project Award (Competitive renewal)

Title: The effects of improved and worsened pre-exercise airway function on breathing during exercise in asthmatic humans

Role: Principal investigator

Purpose: Provided two years of summer salary for the PI, and two years of research related expenses including equipment, supplies, subject remuneration, etc.

Period of Support: June 2009 – May 2011

Vermont Genetics Network Project Award

Title: Effects of altered pre-exercise airway function on breathing during exercise in asthma

Role: Principal investigator

Purpose: Provided one year of summer salary for the PI, and one year of research related expenses including payment of lab technician, equipment and supplies, subject remuneration, etc.

Period of Support: June 2008 – May 2009

National Institutes of Health Loan Repayment Program

Title: Airway function after chronic allergic airways disease and asthma exacerbations

Principal Investigator: Hans Christian Haverkamp, Ph.D.

Purpose: Funding for repayment of college loans

Period of Support: August 2007 – August 2009

Hooper Research Award

Title: Effects of expiratory muscle fatigue on pulmonary function in healthy humans

Principal Investigator: Hans C. Haverkamp

Period of Support: Fall 1998 – Summer 1999

Location: Northern Arizona University

Purpose: This award offered financial awards to full-time undergraduate students for research undertaken in partnership with a faculty mentor. I prepared the application and served as a mentor for three undergraduate students majoring in exercise science.

SEMINARS and INVITED LECTURES

- Vermont Lung Center seminar series, University of Vermont, August, 2013
- Johnson State College, Current topics in science seminar series, November, 2011

- Norwich University, Science lecture series, October 25, 2011
- University of New Hampshire, Department of Kinesiology, Seminar, February 5, 2009
- Johnson State College, Department of Environmental and Health Sciences, Seminar, May 2007
- Northeastern University, Department of Health Sciences, Seminar, February 27, 2007
- University of Vermont, Vermont Lung Center Seminar Series, October 2006
- University of Vermont, Vermont Lung Center Seminar Series, April 2006
- University of Vermont, Vermont Lung Center Seminar Series, April 2004
- Presbyterian Hospital of Dallas, Institute for Exercise and Environmental Medicine, April 2004
- University of California at San Diego, Division of Physiology, March 2004
- University of Wisconsin, Respiratory Neurobiology Seminar Series, 3 seminars, 2002-2004
- Northern Arizona University, Department of Health Promotion and Exercise Science Seminar Series, February 1999
- Northern Arizona University, Department of Biology Seminar Series, May 1997

REFeree ACTIVITIES

Journal Review

- American Journal of Physiology
- American Journal of Respiratory and Critical Care Medicine
- American Journal of Respiratory Cell and Molecular Biology
- Applied Physiology, Nutrition and Metabolism
- Chest
- Exercise and Sports Sciences Reviews
- International Journal of Sports Medicine
- Journal of Applied Physiology
- Journal of Athletic Training
- Medicine and Science in Sports and Exercise
- Obesity

PROFESSIONAL ORGANIZATIONS

- American College of Sports Medicine, National Chapter
- American College of Sports Medicine, New England Regional Chapter
- American Physiological Society
- American Thoracic Society

PROFESSIONAL ORGANIZATION APPOINTMENTS

- Vermont State Representative, New England American College of Sports Medicine: November 2012 – February 2014; November 2016 – present
- Member At-Large, Chair of Marketing and Public Relations (elected position), New England American College of Sports Medicine: February 2014 – November 2016
- Invited abstract reviewer, American College of Sports Medicine Annual Meeting: June 2014 meeting, Orlando, FL

- New England American College of Sports Medicine Fall conference free communications committee: Fall, 2013
- Invited abstract reviewer, American College of Sports Medicine Annual Meeting: June 2013 meeting, Indianapolis, IN

COLLEGE SERVICE and COMMITTEE APPOINTMENTS

Faculty Advisory Council for the Vermont State Colleges: August 2016-present
 Invited position from Chancellor of Vermont State Colleges
 Johnson State College

Faculty Council President (elected position): May 2016-present
 Johnson State College

Curriculum Committee: Fall/Spring 2015-16
 Johnson State College

Faculty Council Vice-President (elected position): Fall/Spring 2013-14
 Johnson State College

Departmental Co-Chair: Fall/Spring 2012-13
 Department of Environmental & Health Sciences
 Johnson State College

College Committee for new General Education Program: Summer 2011 – Summer 2012
 Johnson State College

Chair, Health Science Faculty Search Committee: Fall/Spring, 2010(11')
 Johnson State College

Advising: Faculty advisor for 30 undergraduate students
 Johnson State College

Institutional Review Board for Research Involving Human Subjects: Fall 2007 – present
 Johnson State College

Faculty Council Ad-Hoc member (voted position): Fall 2008 – Fall 2013
 Johnson State College

Johnson State College Committee on the Vermont State Colleges Wellness Initiative: Fall 2008
 Johnson State College

Advisory Board for Academic Support Services: Fall 2007 – Spring 2008
 Johnson State College

Exercise Health with Hans. Regularly appearing column for the Johnson State College newspaper. An educational column that addresses a variety of questions related to exercise, health, and wellness.

Faculty search committee: 1998-1999
Northern Arizona University

REFERENCES

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John Robert Sutton Professor Emeritus of Population Health Sciences
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