



Graduate School
103 Fairchild Hall
Manhattan, KS 66506-1103
785-532-6191
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**GRADUATE COUNCIL AGENDA
FOR MEETING OF October 2, 2007**

DATE: September 25, 2007

TO: Graduate Council Members

FROM: Carol Shanklin, Acting Dean of the Graduate School

The Graduate Council will meet at 3:30 p.m. Tuesday, October 2, 2007, Room 213, Student Union.

Agenda items are as follows:

- 1) **Opening remarks**
- 2) **Minutes of the September 4, 2007 (4)**
- 3) **Graduate School Actions and Announcements**

Appointments for Graduate Faculty Membership

Name	Position	Department/Program	Date approved by Graduate School
Emma Betz	Assistant Professor	Modern Languages	8/30/07
Xuanjuan Chen	Assistant Professor	Finance	9/05/07
John Eck	Assistant Professor	Architecture	9/07/07
Peter Magyar	Professor	Architecture	9/07/07
Michael McGlynn	Assistant Professor	Architecture	9/07/07
Teresa Slough	Assistant Professor	Animal Sciences and Industry	9/11/07
Esther Swilley	Assistant Professor	Marketing	9/11/07
Gerry Craig	Associate Professor	Art	9/12/07
Douglas Dow	Assistant Professor	Art	9/12/07
Mervi Pakaste	Assistant Professor	Art	9/12/07
Jeff Smith	Assistant Professor	Art	9/12/07

Non-Graduate Faculty to teach Graduate Courses (Emergency Approval)

Name	Position	Department/Program	Date approved by Graduate School
Abigail Jager	Visiting Assistant Professor	Statistics	8/23/07
Adam Scott	Graduate Teaching Assistant	Art	9/07/07
Casey Westbrook	Graduate Teaching Assistant	Art	9/07/07

4) Academic Affair Committee

Graduate Faculty Nominations: Approved by the Academic Affairs Committee on 9/18/07.

Non-Graduate Faculty to teach Graduate Courses (*One-Year Approval*)

Abigail Jager	Visiting Assistant Professor	Statistics (11)
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Faculty - Membership

David Ashford	Adjunct Faculty	Diagnostic Medicine/Pathobiology (12)
Cathleen Hanlon	Adjunct Faculty	Diagnostic Medicine/Pathobiology (13)
*Paul Holmquist	Assistant Professor	Architecture (14)
Tandalayo Kidd	Assistant Professor	Human Nutrition (15)
Dan Matthews	Assistant Professor	Speech, Communication, Theatre and Dance (16)
*Miriam Neet	Assistant Professor	Architecture (17)
Richard Gnat	Assistant Professor	Architecture (18)

*If approved for graduate faculty membership, these faculty will be recognized as adjunct status since they are on temporary appointments and not tenure track appointments.

Faculty - Membership and Certification

Eduard Akhunov	Assistant Professor	Plant Pathology (19)
Jianhan Chen	Assistant Professor	Biochemistry (20)
Erick De Wolf	Assistant Professor	Plant Pathology (21)
Jana Hawley	Professor	Apparel, Textiles, and Interior Design (22)
Christopher Little	Assistant Professor	Plant Pathology (23)
Kendra McLauchlan	Assistant Professor	Geography (24)
Sandra Stith	Professor	Family Studies and Human Services (25)
Victor Turchin	Assistant Professor	Mathematics (26)
Dan Volok	Assistant Professor	Mathematics (27)

Faculty – Certification Only

Jianfa Bai	Assistant Professor	Diagnostic Medicine/Pathobiology (28)
Joel DeRouchey	Associate Professor	Animal Sciences and Industry (29)

Course and curriculum issues

New

Graduate Certificate in Stem Cell Biotechnology (30)

5) Graduate Student Affairs Committee

6) Graduate School Committee on Planning

First reading. Changes to the Graduate Handbook, Chapter 2, The Master's Degree, Section A - Admission and General Requirements (43)

First reading. Changes to the Graduate Handbook, Chapter 3, The Doctoral Degree, Section L – Final Examination (45)

First reading. Changes to the Graduate Handbook, Chapter 4, Graduate Certificate Programs, C.3 Criteria for Approval (47)

First reading. Chapter 6, Graduate Council Constitution, By-Laws, Procedures, E.1 New Graduate Programs (48)

First reading. Changes to the Graduate Handbook, Appendix B (49)

7) Graduate School Committee on Assessment and Review

8) Graduate Student Council Information

9) University Research and Scholarship

10) Other business

cc: Academic Deans and Directors
Departments (please post)



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Minutes of the Graduate Council
 September 4, 2007

As approved by the Graduate Council, October 2, 2007

Members present: K. Adhikari, B. DePaola, M. Donnelly, T. Easton, B. Fees, J. Fliter, S. Garimella, D. Goodin, C. Griffin, D. Gruenbacher, S. Haar, M. Hancock, S. Hutchinson, M. Kaff, J. Katz (named S. Hutchinson as proxy), K. Kershner, A. Knackendoffel, S. Kovar, J. Neill, K. Taylor, F. White, M. Zolkiewski

Members absent: S. Bossmann, J. Fallin, J. Faubion, M. Herman, M. Hossain, J. Keller, V. Krstic, J. Reese, B. Roland, R. Schaeffer, B. Schultz, J.S. Smith

Graduate School staff present: S. Fox, J. Guikema, S. Schlender, C. Shanklin

Guests: E. Minton (chair, Assessment and Review Committee), R.W. Trewyn, D. Youngman (library liaison)

1) Opening remarks

Ron Trewyn announced that the Graduate School has been separated from the Vice Provost for Research. With this separation, Carol Shanklin has been named Acting Dean of the Graduate School.

2) Minutes of the May 1, 2007 meeting were approved as presented.

3) Graduate School Actions and Announcements

Appointments for Graduate Faculty Membership

Name	Position	Department/Program	Date approved by Graduate School
*Richard Farnan	Adjunct Professor	College of Architecture, Planning and Design	4/16/07
Lorraine Cutler	Professor	Interior Architecture & Product Design	8/13/07
Timothy Behrens	Assistant Professor	Kinesiology	8/23/07
Brett Wong	Assistant Professor	Kinesiology	8/23/07
Chairat Chuwongnant	Associate Professor	Finance	8/27/07

*Graduate faculty member of Kansas University.

Non-Graduate Faculty to teach Graduate Courses (Emergency Approval)

Name	Position	Department/Program	Date approved by Graduate School
Petra Barnes	Instructor	Apparel, Textiles and Interior Design	6/15/07
Jared Anderson	Assistant Professor	Family Studies and Human Services	7/18/07

4) Academic Affair Committee

A motion was made and seconded to approve the following faculty members for Graduate Faculty Membership Only, Membership and Certification, and Certification Only. The motion passed.

Graduate Faculty Nominations: Approved by the Academic Affairs Committee on 8/21/07.

Non-Graduate Faculty to teach Graduate Courses (One-Year Approval)

Petra Barnes	Instructor	Apparel, Textiles and Interior Design
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Faculty - Membership

Gail Hansen	Adjunct Instructor	Diagnostic Medicine/Pathobiology & Public Health
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Faculty - Membership and Certification

Christine Aikens	Assistant Professor	Chemistry
Jun Li	Associate Professor	Chemistry

Faculty – Certification Only

Terry Beck	Professor	Mechanical & Nuclear Engineering
Aaron Carlstrom	Assistant Professor	Special Education, Counseling & Student Affairs
Warren White	Professor	Mechanical & Nuclear Engineering

Course and curriculum issues

Course and curriculum issues: A motion was made and seconded to approve the following course and curriculum changes and additions. The motion passed.

Changes

Current Course Description	Proposed Course Description
HN 701. Sensory Analysis. (3) I. Sensory analysis of appearance, texture, aroma, flavor; physiology of sensory receptors; laboratory and consumer panels; and interpretation of data. Two hour rec. and three to six hours lab a week. Pr.: STAT 320 or 330 or 340.	HN 701. Sensory Analysis. (3) I, <u>odd years</u> . Sensory analysis of appearance, texture, aroma, flavor; physiology of sensory receptors; laboratory and consumer panels; and interpretation of data. Two hour rec. and three to six hours lab a week. Pr.: STAT 320 or 330 or 340.

NEW:

HN 726. Nutrition and Wellness. (3) II. Epidemiology and pathophysiology of chronic disease related to nutrition (e.g., obesity, cardiovascular disease, osteoporosis, hypertension, diabetes, cancer). Nutritional risk and protective factors will be examined as they relate to public health and individual nutrition. Pr.: Course in basic nutrition and statistics at the undergraduate level.

HN 838. Advanced Clinical Dietetics. (3) II. An in-depth study of the pathophysiology of nutritional disease. Those functional disorders which result in nutritional disease or those nutritional diseases which affect physiological function will be explored. The emphasis will be in the following areas: nutritional assessment, endocrinology, metabolism, gastroenterology, and organ failure. Pr.: HN 630 or equivalent.

HN 840. Advanced Nutrition: Nutrigenomics, Nutrigenetics, and Advanced Lipid Metabolism. (3) I, II. Fundamentals as how the macronutrients; fat, carbohydrates and protein act to regulate gene expression(nutrigenetics) and how an individuals genotype may alter an individuals macronutrient requirements (nutrigenetics) and influence phenotype with respect to chronic disease and human health. Pr.: HN 620 or consent of instructor.

HN 859. Nutrition: A Focus on Life Stages. (3) S. Nutritional needs throughout the life span including pregnancy, lactation, growth and aging. Approaches to nutrition education for different ages. Pr.: 3 hours undergraduate nutrition and 6 hours undergraduate natural sciences.

HN 862. Maternal and Child Nutrition. (3) S. A critical examination of behavioral, physiological, and public health issues impacting dietary and nutritional factors that support normal growth and development. The course content focuses on the early stages of the life cycle: gestation, lactation, infancy, preschool, school age and adolescence. Topics include the fetal programming hypothesis, growth and nutritional requirements, breast and formula feeding of infants, infant weaning, and eating behaviors that lead to normal growth, growth faltering, and pediatric obesity. Pr.: HN 510 or equivalent.

HN 875. Pediatric Clinical Nutrition. (3) I. The physiological, biochemical and nutritional aspects of disease processes relevant to infants and children up to 18 years of age. Medical nutrition therapy for a variety of medical conditions found in this Population will be discussed including inborn errors of metabolism, food hypersensitivity, obesity, and diseases of the major organ systems. Pr.: HN 630 Clinical Nutrition or equivalent.

CS 769. Advanced Feedlot Production Management. (3) I. Feedlot/stocker production training: effects of nutrition, preventative medicine, environment, personnel training and other management issues on the health of growing/finishing cattle. Field trips and problem-solving exercises applying concepts of production analysis, disease prevention and feedlot management. Pr. 4th-year standing in College of Veterinary Medicine.

CS 770. Advanced Cow-Calf Production Management. (3) II. A learner-centered, hands-on elective covering a variety cow-calf production medicine topics including replacement heifer development, breeding and synchronization programs, spreadsheet analysis, genetic selection procedures, nutrition, preconditioning protocols, production economics, bull breeding soundness, and beef practice management. Pr. 4th-year standing in the College of Veterinary Medicine.

5) Graduate Student Affairs Committee

On behalf of the Student Affairs Committee, Carol Shanklin reported that the Graduate Student Affairs Committee is working with the Attorneys Office to address the concern for a GTA/GRA/GA employee grievance procedure.

6) Graduate School Committee on Planning

No report.

7) Graduate School Committee on Assessment and Review

On behalf of the Committee on Planning, Ernie Minton, chair, proposed a motion to modify the mid-cycle assessment review process to include certificate programs. The motion passed. The mid-cycle review process will align the submission of assessment reports with the Board of Regent reviews and allow programs a better opportunity to effectively complete reports as well as give the reviewers a chance to more thoroughly evaluate the reports and offer feedback. The revised mid-cycle review process is noted below:

	2007	2008	2009	2010	2011	2012	2013	2014
Review	(No Mid-Cycle reviews this year pending approval and implementation of the policy).	Economics (Economics, General) M, D Geography M, D <i>Graduate Certificate in Geographic Information Science</i> History, General M, D Security Studies M, D Journalism, Other M Political Science & Government, General M <i>Graduate Certificate in International Service</i> <i>Graduate Certificate in Public Administration</i> Public Administration M Psychology M, D <i>Graduate Certificate in Occupational Health Psychology</i> Sociology M, D <i>Graduate Certificate in Women's Studies</i>	Transition Year To Sync Mid-Cycle Review With Full BOR Schedule	Accounting M Business Administration (Business Administration & Mgmt, General) M <i>Graduate Certificate in Business Administration</i> <i>Graduate Certificate in Organizational Leadership</i> Animal Sciences, M, D <i>Graduate Certificate in Stem Cell Biotechnology</i>	Chemistry M, D Geology M Physics M, D Math M, D Statistics M, D <i>Graduate Certificate in Applied Statistics</i> Plant Pathology M, D Architecture M City/Urban, Comm. & Reg. Planning M Environmental Planning and Management, M <i>Graduate Certificate in Community Planning and Development</i> Landscape Arch M	Agronomy M, D Entomology, M.D <i>Graduate Certificate in Entomology</i> Food Science M, D <i>Graduate Certificate in Food Safety and Defense</i> <i>Graduate Certificate in Food Science</i> Genetics M, D Grain Science, M, D Pathology/Experimental Pathology D Veterinary Physiology D Veterinary Medicine - Biomedical Science M <i>Graduate Certificate in Feedlot Production Management</i>	Biological & Agricultural Engineering and Bioengineering M, D Architectural Engineering M Chemical Engineering M, D <i>Graduate Certificate in Air Quality</i> Civil Engineering M, D <i>Geoenvironmental</i> Electrical Engineering (Electrical, Electronics, & Comm. Engineering) M, D Industrial Engineering M, D Engineering/Industrial Management (Masters of) M Mechanical Engineering M, D <i>Graduate Certificate in Complex Fluid Flows</i> Nuclear Engineering M, D Operations Research M Computer Information Sciences, General M, D <i>Graduate Certificate in Real-Time Embedded System Design</i> Software Engineering (Computer Programming) M	Horticulture Science M, D Biochemistry M, D Biology/Biological Sciences, General M, D Microbiology, General D Fine/Studio Arts, General M English (English Language & Literature, General) M <i>Graduate Certificate in Technical Writing</i> Kinesiology M Foreign Languages/Modern Languages, General M Music/Music and Performing Arts Studies, General M Communications Studies/Speech Communications and Rhetoric M

8) Graduate Student Council Information

Kellan Kershner, president, summarized the following Graduate Student Council (GSC) activities:

- On August 23, 2007, GSC hosted a pizza luncheon. The luncheon introduced graduate students to the Graduate Student Council. Over 30 graduate students attended.
- On August 31, 2007, GSC co-hosted a Graduate Student Mixer with the Friends of McCain. The mixer offered graduate students an opportunity to interact and learn about the McCain performance series. Over 100 graduate students attended the event.
- Twenty-eight student organizations are currently registered with GSC. A list of the current student groups registered with the GSC can be found on the GSC website at: <http://www.k-state.edu/grad/gspeopleorg/gsc/groups2005.htm>.
- The winter travel grant deadline is September 15, 2007 at 5:00 pm.
- GSC will host an Ice Cream Social on September 13, 2007 at 12:30 on the east side of Fairchild Hall.
- The next GSC meeting will be held October 8, 2007 at 12:00 pm in room 213 of the K-State Student Union.

9) University Research and Scholarship

The Graduate Calendar found on the Graduate School website at: <http://www.k-state.edu/grad/gshome/calendar.pdf> was presented for informational purposes to Council members.

10) Other business

No report.

11) Caucus meetings

A short meeting was held for each caucus to decide on representation from the caucus on each of the four policy committees. (Each committee must have at least one member from each caucus.) The tables below identify the committee assignments for the 2007-2008 academic year:

APPLIED NATURAL SCIENCE ACADEMIC AREA CAUCUS

Name	Department	Academic Affairs	Student Affairs	Committee on Planning	Assessment and Review
Koushik Adhikari	Human Nutrition				
Jon Faubion	Grain Science and Industry				
John Reese	Entomology				
J. Scott Smith	Animal Sciences and Industry				
Frank White	Plant Pathology				

ARTS AND HUMANITIES ACADEMIC AREA CAUCUS

Name	Department	Academic Affairs	Student Affairs	Committee on Planning	Assessment and Review
Michael Donnelly	English				
Jana Fallin	Music				
Charles Griffin	Speech Communication, Theatre & Dance				
John Keller	Landscape Architecture				
Vladimir Krstic	Architecture				

BASIC NATURAL SCIENCE ACADEMIC AREA CAUCUS

Name	Department	Academic Affairs	Student Affairs	Committee on Planning	Assessment and Review
Stefan Bossmann	Chemistry				
Brett DePaola	Physics				
Michael Herman	Biology				
Bob Rowland	Diagnostic Medicine/ Pathobiology				
Bruce Schultz	Anatomy & Physiology				
Michal Zolkiewski	Biochemisty				

BUSINESS AND EDUCATION ACADEMIC AREA CAUCUS

Name	Department	Academic Affairs	Student Affairs	Committee on Planning	Assessment and Review
Marjorie Hancock	Elementary Education				
Marilyn Kaff	Special Education				
Jeff Katz	Management				
Ann Knackendoffel	Special Education, Counseling, and Student Affairs				
Stacy Kovar	Accounting				
Kay Ann Taylor	Secondary Education				

MATHEMATICS AND ENGINEERING SCIENCES ACADEMIC AREA CAUCUS

Name	Department	Academic Affairs	Student Affairs	Committee on Planning	Assessment and Review
Todd Easton	Industrial and Manufacturing Systems Engineering				
Don Gruenbacher	Electrical and Computer Engineering				
Mustaque Hossain	Civil Engineering				
Stacy Hutchinson	Biological and Agricultural Engineering				
James Neill	Statistics				

SOCIAL SCIENCES ACADEMIC AREA CAUCUS

Name	Department	Academic Affairs	Student Affairs	Committee on Planning	Assessment and Review
Bronwyn Fees	Family Studies and Human Services				
John Fliter	Political Science				
Doug Goodin	Geography				
Sherry Haar	Apparel, Textiles and Interior Design				
Robert Schaeffer	Sociology, Anthropology and Social Work				

Council was adjourned at 4:05 p.m.

ABIGAIL L. JAGER
Department of Statistics

Education:

B.S.	1998	Calvin College, Mathematics and Chemistry
Ph.D.	2006	University of Chicago, Statistics

Professional experience:

Current:	2006 - present	Visiting Assistant Professor, Department of Statistics, Kansas State University
Previous:	2001 - 2006	Research Assistant, Department of Health Studies, University of Chicago
	1998 - 2006	Research Assistant, Department of Statistics, University of Chicago
	1998 - 2005	Course Assistant, Department of Statistics, University of Chicago

Selected Refereed Journal Articles/Publications/Significant Works of Scholarly Activity:

Jager, A., Rathouz, P. "Likelihood Methods for Counterfactual Inference with Confounding Variables." Submitted to ENAR Spring Meeting 2003.

Dr. David Ashford
Adjunct Faculty
Department of Diagnostic Medicine/Pathobiology

EDUCATION:

B.S. 1982 Cornell University – Biology
DVM 1986 Cornell University – Veterinary Medicine
MPH 1989 Harvard University – Epidemiology
D.Sc. 1996 Harvard University – Tropical Public Health/Infectious Diseases

PROFESSIONAL EXPERIENCE:

Current: 2005- present Assistant Area (Brazil) /Regional (South America) Director, USDA, APHIS, International Services Liaison to PAHO/PANAFTOSA, and Coordinator of Foot and Mouth Disease and Zoonoses Activities

Previous: 2003 -2005 Lead, Research and Special Projects, Public Health Emergency Preparedness Branch, CDC

1997-2003 Chief, Zoonoses Unit, Meningitis and Special Pathogens Branch, Centers for Disease Control and Prevention, Atlanta, GA

1997-2003 Director, WHO Collaborating Center for Leptospirosis, CDC, Atlanta

PUBLICATIONS:

McEwen SA, Wilson TM, Ashford DA, Heegaard ED, Kuiken T, Kournikakis T. Microbial forensics for natural and intentional incidents of infectious disease involving animals. In *Biological Diseases of Animal Origin. OIE Scientific Publications 25: 98-102.* 2006.

Bruce MG, Sanders EJ, Leake JAD, Saidel O, Bragg SL, Aye T, Shutt KA, Deseda CC, Rigau-Perez JG, Tappero JW, Perkins BA, Spiegel RA, Ashford DA. Leptospirosis among patients presenting with dengue-like illness in Puerto Rico. *Acta Tropica 96: 36-46.*

Ashford DA, Duckett L, Burger R. Livestock Carcasses following Natural or Manmade Disasters: Public Health Issues and Recommendations. *MMWR. Report and Recommendations.* In press.

Ashford DA and the Public Health Emergency Working Group. Power Failures: Public Health Emergency Preparedness Issues and Recommendations. *MMWR. Report and Recommendations.* In press.

Ashford DA, Duckett L, Steele JR. Bovine Tuberculosis: Public Health Preparedness Considerations for the Future. *OIE.* In press.

Cathleen Alma Hanlon
Adjunct Faculty
Department of Diagnostic Medicine/Pathobiology

Education:

B.S. 1980 Animal Sciences, Rutgers University, Cook College, New Brunswick, NJ.
V.M.D. 1987 University of Pennsylvania, School of Veterinary Medicine, Philadelphia, PA.
Ph.D. 1994 Comparative Medicine, Biomedical Group, University of Pennsylvania,
Philadelphia, PA.

Professional experience:

Current: 1997 - present Associate Professor, Department of Diagnostic
Medicine/Pathobiology, Kansas State University, Manhattan,
KS.
2000 – present Veterinary Medical Officer, CDC, Rabies Section, Atlanta, GA
(40 hrs/wk).
Supervisor: Dr. Charles E. Rupprecht 404-639-1050.
Short-term Detail: CDC Liaison assigned to the World
Organizational for Animal Health (Organization International
des Epizooties, OIE), Paris, France, Sep – Dec 2006.
Previous: 1998 – 2000 Senior Staff Fellow, CDC, Rabies Section, Atlanta, GA (40
hrs/week).
Supervisor: Dr. Charles E. Rupprecht 404-639-1050.
1996 – 1998 Visiting Researcher (ORISE), CDC, Rabies Section, Atlanta, GA
(40 hrs/wk).
Supervisor: Dr. Charles E. Rupprecht 404-639-1050.

Selected Refereed Journal Articles:

Blanton JD, Krebs JW, Hanlon CA, Rupprecht CE. Rabies surveillance in the United States during 2005. *J Am Vet Med Assoc.* 2006 Dec 15;229(12):1897-911.

Blanton JD, Meadows A, Murphy SM, Manangan J, Hanlon, CA, Faber ML, Dietzschold B, Rupprecht CE. Vaccination of small Asian mongoose (*Herpestes javanicus*) against rabies. *J. Wildl Dis.* 2006 Jul;42(3):663-6.

Blanton JD, Manangan A, Manangan J, Hanlon CA, Slate D, Rupprecht CE. Development of a GIS-based, real-time Internet mapping tool for rabies surveillance. *Int. J Health Geogr.* 2006 Nov 1;5:47.

Goudsmit J, Marissen WE, Weldon WC, Niezgodna M, Hanlon CA, Rice AB, Kruif J, Dietzschold B, Bakker AB, Rupprecht CE. Comparison of an anti-rabies human monoclonal antibody combination with human polyclonal anti-rabies immune globulin. *J Infect Dis.* 2006 Mar 15;193(6):796-801. Epub 2006 Feb. 6.

Paul F. Holmquist

Department of Architecture

Education:

B.A. 1990 University of California, Los Angeles, Art

M.Arch. 1999 Southern California Institute of Architecture

Professional experience:

Current: 2007 - present Assistant Professor, Department of Architecture, Kansas State University, Manhattan

Previous:

2005 - 2007 Assistant Professor (and Architectural Technology

Curriculum Coordinator 2006–2007), Department of Computer Imaging and

Architectural Engineering Technology, State University of New York College of Technology, Alfred

2004 - 2005 Lecturer, Department of Computer Imaging and Architectural Engineering Technology, State University of New York College of Technology, Alfred

Spring 2004 Adjunct Instructor, Department of Computer Imaging and Architectural Engineering Technology, State University of New York College of Technology, Alfred

Selected Refereed Journal Articles/Publications/Significant Works of Scholarly Activity:

"Community-Based Service Learning as Part of an Architectural Technology Curriculum" presentation with Prof. Bill Dean, AIA, Prof. Rex Simpson, AIA, Prof. Terry Palmiter at Faculty-Student Partnerships: Current Trends of Technology in Teaching and Learning, sponsored by SUNY Geneseo, May 18, 2007.

"Community-Based Service Learning as Part of an Architectural Technology Curriculum", presentation with Prof. Bill Dean, AIA, Prof. Rex Simpson, AIA, Prof. Terry Palmiter at Multi-disciplinary Community-Based Inquiry: Uniting Participatory Research with Professional Practice, sponsored by SUNY Binghamton, October 11, 2006. Presentation received Universal Educational Foundation Excellence Award for Best Presentation.

As Project Manager, Nicholas Budd Dutton, Architects, Los Angeles
California Residence, California, 2006
Graves Residence, Los Angeles, 2002
Company 3, Santa Monica, 2001-2002

Tandalayo Kidd
Department of Human Nutrition

Education

- B.S. 1997 Kansas State University – Foods and Nutrition
M.S. 2002 Kansas State University – Hotel, Restaurant, Institutional Management
and Dietetics
Ph.D. 2005 Kansas State University – Human Nutrition

Professional experience:

- Current: 2005 – present Assistant Professor/Extension Specialist,
Department of Human Nutrition, Kansas State
University, Manhattan
- Previous: 2004 – 2005 Extension Associate, Department of Human
Nutrition, Kansas State University, Manhattan
- 2002 – 2003 Graduate Teaching Assistant, Department of
Human Nutrition, Kansas State University,
Manhattan
- 1999 – 2000 Graduate Teaching Assistant, Department of Hotel,
Restaurant, Institutional Management and Dietetics,
Kansas State University, Manhattan

Professional Certifications:

- Registered Dietitian, American Dietetic Association
Licensed Practical Nurse, State of Kansas

Selected Refereed Journal Articles:

Kidd, T., Johannes, E., Simonson, L., and Medeiros, D. (in press). KNACK Online: An Evidence-based Website Developed to Address Adolescent Obesity. *Journal of Nutrition Education and Behavior*.

Kidd, T., Peters, P., and Holcomb, C. (in press). Exploring Factors that Influence the Food Behaviors of Junior Enlisted Army Family. *Journal of Hunger and Environmental Nutrition*.

Kidd, T. and Snyder, C. (July 2007). Kansans Move into Health: Leader's Guide. Family and Consumer Sciences Lesson Series, MF-2782.

Kidd, T. and Snyder, C. (July 2007). Kansans Move into Health: Fact Sheet. Family and Consumer Sciences Lesson Series, MF-2783.

Kidd, T. (2007, April/June). It's Party Time, Bring on the Snacks. *Young Families Newsletter*.

Kidd, T. (2007, January/March). Food Mixes Make Great Holiday Gifts. *Young Families Newsletter*.

Daniel R. Matthews
Speech Communication, Theatre, and Dance

Education:

MFA The Ohio State University, Columbus, OH, 2006

BA University of Northern Colorado, Greeley, CO, 2003

Teaching Experience:

Aug 2006-Present Assistant Professor, Kansas State University

Sept 2003-June 2006 Graduate Teaching Associate, The Ohio State University

Jan 2003-May 2003 Teaching Assistant, University of Northern Colorado

Awards:

2006 Honored by The Ohio State University Department of Theatre with “Excellence in Graduate Studies for Creative Activity”

2006 Central Ohio Theatre Roundtable Award of Excellence for Outstanding Production to *The Rocky Horror Show*, The Ohio State University Theatre

2006 Central Ohio Theatre Roundtable Award of Excellence in Technical Production to *Two Planks and a Passion*, The Ohio State University Theatre

MIRIAM NEET
KANSAS STATE UNIVERSITY
COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN

EDUCATION

Bachelor of Arts 1982
University of Wisconsin–Madison, Wisconsin

Master of Architecture 1988
Columbia University- Graduate School of Architecture Planning and Preservation
New York, New York

PROFESSIONAL REGISTRATION

State of Illinois Registered Architect - Licensed since 1994
City of Chicago – Registered Energy Professional

PROFESSIONAL EXPERIENCE

2004-7/2007
Senior Project Architect/Designer- Studio Gang Architects, Chicago Illinois.

2002 - 2004
Project Architect/Designer– Grunsfeld Shafer Architects, Chicago Illinois.

2001-2002
Project Architect/Designer– Meissner + Wurst U.S. Operations, Chicago Illinois.

HONORS & ACTIVITIES

Burnham Prize Competition Finalist, 1996 - The Arts Club of Chicago.
Exhibition of 1997 Work Surface Competition entry – Chicago Architecture Foundation - 1997
Exhibition of 1996 Burnham Prize Competition entry – I Space Gallery, Chicago IL- 1996.

Guest Architecture Critic:

Columbia College, Chicago, 2005; Harvard University, Graduate School of Design, Cambridge, 2004; Illinois Institute of Technology, School of Architecture, Chicago, 2004; Andrews University, School of Architecture, Berrien Springs, Michigan, 1996, 1997; University of Illinois, Chicago, School of Architecture, 1994.

SIGNIFICANT WORKS OF PROFESSIONAL ACTIVITY

Bluhm-Helfand Residence – Chicago, Illinois. 2006-2207.

Senior Project Architect and Designer.

Major, high-end renovation of a 7,500 SF duplex condominium apartment unit for a couple in the Gold Coast neighborhood of Chicago. Currently under construction (8/2007).

SOS Children’s Village Community Center– Chicago, Illinois. 2004-2007.

Senior Project Architect and Designer. A 16,000 SF not-for-profit community and day care center serving foster children in the South Side area of Chicago. Currently under construction (8/2007)

Hernandez-Surratt Residence – Chicago, Illinois. 2005-2007.

Senior Project Architect and Designer. Renovation and re-building of a 3,800 SF single family residence for a couple in the Ukrainian Village neighborhood of Chicago. Currently under construction (8/2007).

Bellows-Brilliant Residence – Long Branch, New Jersey. 2005-2007.

Senior Project Architect and Designer. 5,000 SF summer residence near the ocean for a New York City couple. Currently under construction (8/2007).

Maxim Pool and Casino Design Competition – Las Vegas, Nevada, 2006.

Senior Project Designer. Invited design competition proposal for a multi-use complex of hotel, casino, pool and restaurants/clubs in Las Vegas.

RICHARD RAYMOND GNAT, LEED AP

Department of Architecture

EDUCATION:

Bachelor of Science	1986	BALL STATE UNIVERSITY - Muncie, Indiana, Environmental Design
Bachelor of Architecture	1986	BALL STATE UNIVERSITY - Muncie, Indiana, Architecture
Master of Architecture	1997	CORNELL UNIVERSITY - Ithaca, New York, Architecture

PROFESSIONAL REGISTRATION:

Licensed Architect	1989	State of Illinois
LEED Accredited Professional	2004	

PROFESSIONAL EXPERIENCE: (TEACHING)

Current:	2007 –	Assistant Professor, Department of Architecture, Kansas State University , Manhattan, Kansas
Previous:	1996 – 1998	Assistant Professor, Division of Architecture, Andrews University , Berrien Springs, Michigan
	1993 – 1994	Visiting Professor, College of Architecture, Illinois Institute of Technology , Chicago, Illinois
	1989 – 1990	Teaching Assistant, College of Architecture, Cornell University , Ithaca, New York

PROFESSIONAL EXPERIENCE: (PRACTICE)

Previous:	2006 – 2007	Senior Project Architect, Pappageorge / Haymes Ltd. , Chicago, Illinois
	2001 – 2006	Associate, OWP/P Architects , Chicago, Illinois
	2000 – 2001	Senior Project Architect, Krueck & Sexton , Chicago, Illinois
	1998 – 2001	Associate, Perkins & Will , Chicago, Illinois

SELECTED CREATIVE WORK:

Adlai E. Stevenson High School – AIA Chicago 2006 Winner – Distinguished Building Award
OWP/P Architects - This project won an award for two phases of a multi-phase renovation of Stevenson High School. I was the project architect and project designer for the second phase orchestra room addition with design principal Trung Le.

Garfield Middle School – (2005-2006)
OWP/P Architects – A new 450 student middle school for the Cleveland Public School District. I was the project designer with design principal Trung Le. OWP/P was responsible for the schematic design and a local firm was responsible for the construction documents.

West Side Relief High School - (2004-2006)
OWP/P Architects – A new 1,500 student High School for the Cleveland Public School District. I was the project designer with design principal Trung Le. OWP/P was responsible for the schematic design and a local firm was responsible for the construction documents.

Argonne National Labs – Rare Isotope Accelerator - Science Center – (2001-2003)
OWP/P Architects – The RIA Science Center was to be the first of several research labs in support of the one billion dollar Rare Isotope Accelerator proposed for Argonne National Labs. The project is waiting for funding from the Department of Energy. I was the project architect and project designer with design principal Bjorn Hallsson.

Eduard D. Akhunov
Department of Plant Pathology

Professional preparation

Institute of Genetics, Russia	Mol. Biology	1999, Ph. D.
Novosibirsk State University, Russia	Biochemistry	1992, M. S.
Bashkirian State University, Russia	Biochemistry	1990, B. S.

Appointments

05/2007 – present	Assistant Professor	Kansas State University, Manhattan, KS
05/2004 – 05/2007	Project Scientist	University of California, Davis, CA
02/2000 – 05/2004	Visiting Scientist	University of California, Davis, CA
04/1994 – 02/2000	Senior Res. Sci.	Institute of Biochem. and Genetics, Russia
04/1993 – 03/1994	Junior Res. Sci.	Institute of Biochem. and Genetics, Russia
07/1992 – 03/1993	Research Scientist	Bashbiotech Company, Ufa, Russia

Research experience

2004 – 2007 Project: Haplotype Polymorphism in the Polyploid Wheats and their Diploid Ancestors (NSF, Scientific Manager of the Project).

2004 – 2005 Project: Development of genomics resources for diploid ancestors of wheat: Bacterial Artificial Chromosome (BAC) libraries (USDA, co-PI).

2000 – 2004 Project: Structure and Function of the Expressed Portion of the Wheat Genomes (NSF, visiting scientist).

Memberships

Member of the Genetics Society of America

Member of American Association for Advancement of Science

Reviewer:

Theoretical and Applied Genetics

Functional and Integrative Genomics

Genome Research

Plant Cell Reports

Genome

Nucleic Acids Research

Selected Publications

- 2003 Akhunov E.D., et al., *Proc. Natl. Acad. Sci.* 100, 10836-10841.
- 2003 Akhunov E.D., et al., *Genome Res.* 13, 753-763.
- 2004 Caldwell, K.S., et al., *Genetics*, 167, 941-947.
- 2005 J. Dvorak and E. D. Akhunov *Genetics* 2005, 171, 323-332.
- 2005 Akhunov E.D., et al., *Theor. Appl. Genet.*, 2005, 111, 1617-1622
- 2006 Dvorak J., et al., *Mol. Biol. Evol.*, 2006, 23, 1386-96.
- 2006 Akhunov E.D., et al., *Mol. Biol. Evol.*, 2006 Nov 29, (Epub ahead of print).

Jianhan Chen
Department of Biochemistry

Education:

B.S.	1998	University of Science and Technology of China, Chemistry
M.S.	2000	University of California at Irvine, Chemistry
Ph.D.	2002	University of California at Irvine, Chemical and Material Physics

Professional experience: (List current and three most recent positions)

Current:	2007 - present	Assistant Professor, Department of Biochemistry, Kansas State University, Manhattan
Previous:	2002 - 2007	Research Associate, The Scripps Research Institute, La Jolla, California
	1999 - 2002	Graduate Research Assistant, University of California at Irvine, California
	1997 - 1998	Undergraduate Research Assistant, University of Science and Technology of China

Selected Refereed Journal Articles/Publications/Significant Works of Scholarly Activity: (List no more than 5 peer reviewed articles/works completed within the past 5 years that demonstrate your credentials to teach graduate level courses and guide graduate student research.)

1. J. Chen and C. L. Brooks III. Critical importance of length scale dependence in implicit modeling of hydrophobic interactions, *J. Am. Chem. Soc.* **129**, 2444-2445 (2007).
2. J. Khandogin, J. Chen and C. L. Brooks III. Exploring atomistic details of pH-dependent peptide folding. *Proc. Natl. Acad. Sci. U. S. A.* **103**, 18546-18550 (2006).
3. J. Chen, W. Im and C. L. Brooks III. Balancing solvation and intramolecular interactions: Toward a consistent generalized Born force field. *J. Am. Chem. Soc.* **128**, 3728-36 (2006).
4. J. Chen, W. Im and C. L. Brooks III, Application of torsion angle molecular dynamics for efficient sampling of protein conformation. *J. Comput. Chem.* **26**, 1565-78 (2005).
5. J. Chen, W. Im and C. L. Brooks III. Refinement of NMR structures using implicit solvent and advanced sampling techniques. *J. Am. Chem. Soc.* **126**, 16038-16047 (2004).

Erick D. De Wolf
Department of Plant Pathology

Education:

Degree	Year	Institution	Major
B.A.	1994	Hope College	Biology
Ph.D.	2000	North Dakota State University	Plant Pathology

Professional Experience:

2007 – Present	Assistant Professor, Department of Plant Pathology, Kansas State University
2001- 2007	Assistant Professor, Department of Plant Pathology, The Pennsylvania State University
1999-2000	Postdoctoral Researcher, Department of Plant Pathology, The Ohio State University, Ohio Agricultural Research and Development Center

Articles Published in Refereed Journals

1. De Wolf, E.D. and Isard, S.A. 2007. Disease cycle approach to plant disease prediction. *Annual Review of Phytopathology* 45:9.1-9.18.
2. Dufault, N. S., De Wolf, E. D., Lipps, P. E., Madden, L. V. 2006. Role of temperature and moisture in the production and maturation of *Gibberella zeae* perithecia. *Plant Disease* 90:637-644.
3. Isard, S. A., Dufault, N. S., Miles, M. R., Hartman, G. L., Russo, J. M., De Wolf, E. D. and Morel, W. 2006. The effect of solar irradiance on the mortality of *Phakopsora pachyrhizi* urediniospores. *Plant Disease* 90:941-945.
4. Mansfield, M. A., De Wolf, E. D., and Kuldau, G. A. 2005. Relationships between weather conditions, agronomic practices, and fermentation characteristics with Deoxynivalenol content in fresh and ensiled maize. *Plant Disease* 89:1151-1157.
5. De Wolf, E. D., Madden, L.V. and Lipps, P. E. 2003. Risk assessment models for wheat Fusarium head blight epidemics based on within-season weather data. *Phytopathology* 93:428-435.

Jana M. Hawley, Ph.D.

Department of Apparel, Textiles, and Interior Design

Education:

B.S.	1975	Fort Hays State University, Vocational Home Economics
M.S.	1988	Oklahoma State University, Clothing and Textiles
Ph.D.	1988	University of Missouri, Human Environmental Sciences

Professional experience: (List current and three most recent positions)

Current:	2007 - present	Professor and Dept. Head, Department of Apparel, Textiles and Interior Design, Kansas State University, Manhattan
Previous:	2001-2007	Associate Professor, Department of Textile and Apparel Management, University of Missouri-Columbia
	1998-2000	Assistant Professor, School of Merchandising and Hospitality Management, University of North Texas, Denton
	1993-1997	Assistant Professor, Department of Apparel Merchandising and Interior Design, Indiana University, Bloomington

**Selected Refereed Journal Articles/Publications/Significant Works of Scholarly Activity:
(List no more than 5 peer reviewed articles/works completed within the past 5 years that demonstrate your credentials to teach graduate level courses and guide graduate student research.)**

McIntire, J. and **Hawley, J. M.** (In revision). Distance Computation Method for Co-event Bibliometrics. *Journal of the American Society for Information Science and Technology*. **(major advisor, Master's, 2006).**

Jang, N., Dickerson, K. G. and **Hawley, J. M.** (2005, May). Apparel product development: Measures of apparel product success and failure. *Journal of Fashion Marketing and Management*, 9(2).® **(major co-advisor, Ph.D., 2002)**

Boorady, Lynn. (2005). *Using digital animation to teach patternmaking*. Unpublished doctoral dissertation, University of Missouri, Columbia. **(Major co-Advisor, Ph.D.)**

Shen, L. (2003). *E-commerce adoption for supply chain management in U.S. apparel manufacturers*. Co-Advised with Dr. Kitty Dickerson. Unpublished doctoral dissertation, University of Missouri, Columbia. **(Major co-advisor, Ph.D.)**

Tong, X. and **Hawley, J. M.** (2006, November). The effect of marketing activities on brand equity in Chinese clothing market. ITAA. Annual Meeting, Washington, D.C. ® (Major advisor, Ph.D.)

Christopher R. Little, Ph.D.
Department of Plant Pathology

EDUCATION

- Ph.D. Plant Pathology (May 2002), Texas A&M University, College Station, Texas
- B.Sc. Microbiology (May 1996), University of Kentucky, Lexington, Kentucky

PROFESSIONAL EXPERIENCE

- Assistant Professor – Dept. of Plant Pathology, Kansas State University, Manhattan, Kansas (June 2007 – present)
- Assistant Professor – Dept. of Biology, University of Texas – Pan American, Edinburg, Texas (Sept. 2002 – May 2007)
- Teaching/Research Assistant – Dept. of Plant Pathology & Microbiology, Texas A&M University, College Station, Texas (Aug. 1996 – Aug. 2002)

RECENT PUBLICATIONS (see full CV for a complete list)

- Everitt, J.H., Lonard, R.I., and **Little, C.R.** 2007. A Guide to Identification of Weeds in South Texas and Northern Mexico. Texas Tech Press, Lubbock, Texas. *In Press*. (book)
- Martinez Blanco, E., **Little, C.R.**, and Davelos Baines, A.L. 2007. Variation in antibiotic inhibitory abilities among streptomycetes from south Texas agricultural soils. *Soil Biology & Biochemistry* 39: 268-275.
- Chintapalli, R., Wilson, J.P., and **Little, C.R.** 2006. Using fungal isolation rates from pearl millet caryopses to assess grain mold and weathering resistance. *International Sorghum and Millets Newsletter* 47: 146-148.
- **Little, C.R.** 2006. Occurrence of *Leveillula taurica* cleistothecia on honey mesquite in southern Texas. *Plant Disease* 90: 1358.
- Summy, K.R., **Little, C.R.**, Mazariegos, R.A., Valdez, R., Hinojosa-Kettelkamp, D.L., Carter, J., and Yousef, S. 2004. Evaluation of artificial lighting sources for the acquisition of color infrared imagery under glasshouse conditions. *Subtropical Plant Science* 56: 44-51.
- **Little, C.R.**, and Magill, C.W. 2004. Colonization of sorghum peduncles by *Fusarium thapsinum* and *Curvularia lunata*: subsequent pigment accumulation. *International Sorghum and Millets Newsletter* 45: 28-30.
- **Little, C.R.**, and Magill, C.W. 2003. Elicitation of defense response genes in sorghum floral tissues infected by *Fusarium thapsinum* and *Curvularia lunata* at anthesis. *Physiological and Molecular Plant Pathology* 63: 271-279.

RECENT FUNDING (see full CV for a complete list)

- INTSORMIL USAID (May 2007) (Submitted) "Ecologically-based management of sorghum and pearl millet diseases" (*Senior Personnel w/ Dr. John F. Leslie*)
- KSU Targeted Excellence Program (April 2007) (Submitted) "The Sorghum Translational Genomics Program: Mining Genomic Diversity for Sorghum Improvement" (*Senior Personnel w/ Drs. F. White, M. Tuinstra, J. Nelson, and J. Yu*)
- National Science Foundation (December 2006) (funded, \$301,870) "Long term research in biology at a Hispanic gateway institution" (*Senior Personnel w/ Dr. Z. Faulkes*)
- National Science Foundation (June 2006) (funded, \$101,240) "Acquisition of a Genetic Analysis System for Biology, The University of Texas - Pan American" (*Supporting Personnel w/ Dr. A.L. Davelos Baines*)

Kendra Kay McLauchlan

Department of Geography
Kansas State University
118 Seaton Hall
Manhattan, KS 66506
mclauch@ksu.edu
(785) 532-6155

Education

- 2004 Ph.D. in Ecology, University of Minnesota
"Consequences of land use change from conventional agriculture to perennial grassland for soil carbon and nitrogen dynamics" advisor: Dr. Sarah E. Hobbie
- 2000 M.S. in Ecology, minor in Quaternary Paleoecology, University of Minnesota
"Forest clearance and plant cultivation by prehistoric people in southwestern Ohio" advisor: Dr. Margaret B. Davis
- 1995 B.A. in Biology, Carleton College, magna cum laude, Phi Beta Kappa

Positions Held

- 2007- Assistant Professor, Department of Geography, Kansas State University
- 2004-2007 Postdoctoral fellow funded by the Luce Foundation, Environmental Studies Program, Dartmouth College.
- 1996-2004 Research assistant, teaching assistant, Department of Ecology, Evolution, and Behavior, University of Minnesota.

Publications

- McLauchlan, K. K.**, A. J. Elmore, W. W. Oswald, and S. Sugita. *In press*. Detecting open vegetation in a forested landscape: pollen and remote sensing data from New England, USA. *The Holocene*.
- McLauchlan, K. K.**, J. M. Craine, W. W. Oswald, P. R. Leavitt, and G. E. Likens. 2007. Changes in nitrogen cycling during the past century in a northern hardwood forest. *Proceedings of the National Academy of Sciences USA* 104: 7466- 7470.
- McLauchlan, K. K.** 2006. The nature and longevity of agricultural impacts on soil carbon and nutrients: a review. *Ecosystems* 9: 1364- 1382.
- McLauchlan, K. K.** 2006. Effects of soil texture on soil carbon and nitrogen dynamics after cessation of agriculture. *Geoderma* 136: 289- 299.
- McLauchlan, K. K.**, S. E. Hobbie, and W. M. Post III. 2006. Conversion from agriculture to grassland builds soil organic matter on decadal timescales. *Ecological Applications* 16: 143- 153.
- McLauchlan, K. K.**, and S. E. Hobbie. 2004. Comparison of labile soil organic matter fractionation techniques. *Soil Science Society of America Journal* 68: 1616- 1625.
- McLauchlan, K. K.** 2003. Plant cultivation and forest clearance by prehistoric North Americans: pollen evidence from Fort Ancient, Ohio, USA. *The Holocene* 13: 557- 566.

Sandra Stith
Family Studies and Human Services

Education

Ph.D., 1986, Kansas State University	Major Area: Marriage and Family Therapy.
M.S., 1982, Kansas State University	Major Area: Life Span Human Development.
B.S., 1970, Oklahoma State University	Major Area: Elementary Education

Professional Experience

July 2007 - **Professor**, Marriage and Family Therapy Program, School of Family Studies and Human Services, Kansas State University, Manhattan, KS

July 1999 **Professor**, Marriage and Family Therapy Program, Department of Human Development, Virginia Tech, Falls Church, VA

July 1992 **Associate Professor**, Family and Child Development, Virginia Tech, Falls Church, Virginia.

August 1986- **Assistant Professor**, Family and Child Development, Virginia Tech, Falls Church, Virginia.

Selected Publications

Selected Journal Articles

Stith, S. M., Green, N., Smith, D. B., & Ward, D. (in press). Marital satisfaction and discord as risk markers for intimate partner violence: A meta-analytical review. *Journal of Family Violence*.

Stith, S.M., Liu, T. L., Davies, C., Boykin, E.L., Alder, M.C., Harris, J.M., Som, A., McPherson, M. & Dees, J. (In press). Risk factors in child maltreatment: A meta-analytic review of the literature, *Journal of Aggression and Maltreatment*.

Stith, S. M., Pruitt, I., Dees, J., Fronce, M., Green, A., Som, A. & Linkh, D. (2006). Implementing community-based prevention programming: A review of the literature. *Journal of Primary Prevention*, 27, 599-617.

Rosen, K. H., Stith, S.M., Few, A.L., Daly, K.L., & Tritt, D.R. (2005). A qualitative investigation of Johnson's typology. *Violence and Victims*, 20, 3, 319-334.

Stith, S. M., Rosen, K. H., McCollum, E. E., & Thomsen, C. J. (2004). Treating intimate partner violence within intact couple relationships: Outcomes of multi-couple versus individual couple therapy. *Journal of Marital and Family Therapy*, 30, 3, 305-318.

Rosen, K. H., Matheson, J., Stith, S. M., & McCollum, E. E. (2003). Negotiated time-out: A de-escalation tool for couples. *Journal of Marital and Family Therapy*, 29, 3, 291-298.

Stith, S. M., Rosen, K. H., & McCollum, E. E. (2003). Effectiveness of couples treatment for spouse abuse *Journal of Marital and Family Therapy*, 29, 407-426.

Stith, S.M., Rosen, K.H., Middleton, K., Lundeberg, K., & Carlton, R. (2000). The intergenerational transmission of spouse abuse: A meta-analysis. *Journal of Marriage and the Family*, 62, 640-654.

Selected Book Chapters

Stith, S. M. & McCollum, E. (in press) Couples treatment for physical and psychological aggression. In D.K. O'Leary & Woodin, E. M. *Understanding Psychological and Physical Aggression in Couples: Existing Evidence and Clinical Implications*, APA.

Stith, S. M. & McMonigle, C. (in press). Risk markers for intimate partner violence. In D. Whitaker & J. Lutzker, *Preventing Partner Violence: Foundations, Interventions, Issues*. APA.

Stith, S.M., McCollum, E.E., Rosen, K.H., Locke, L. & Goldberg, P. (2005). Domestic violence focused couples treatment, pp. 406-430. In J. Lebow (Ed.). *Handbook of Clinical Family Therapy*. New York: John Wiley & Sons

Selected Edited Books

Stith, S.M. (Ed.) (2006). *Prevention of Intimate Partner Violence*. Haworth Publications.

Stith, S.M., & Straus, M. (Eds.) (1995). *Understanding Partner Violence: Prevalence, Causes, Consequences and Solutions*, National Council on Family Relations. Milwaukee, MN.

Victor Turchin
Department of Mathematics

EDUCATION

PhD University of Paris VII, May 2002.
Bachelor Degree Moscou State University, department of mathematics, 1996.

MAIN APPOINTMENTS

August 2007-present Assistant Professor, Kansas State University, USA.
February-June 2007 Teaching Assistant, Université Catholique de Louvain, Belgium.
September-December 2006 Visitor, Institut des Hautes Etudes Scientifiques, France.
January-June 2006 Visiting Assistant Professor, University of Oregon, USA.
September 2004-December 2005 Postdoctoral fellow, Université Catholique de Louvain, Belgium.
January 2003-August 2004 Assistant Professor, Moscow State Technical University of Civil Aviation, Russia.

SELECTED PAPERS

“Homology of Complexes of 2-Connected Graphs”, *Uspekhi Mat. Nauk* 52 (1997), no.2, 189-190; English transl. in *Russian Math. Surveys* 52 (1997), no.2, 426-427.

“Spaces of Jets without Complicated Singularities”, *Journal of Mathematical Science*, Vol. 128 (4) 2005, pp. 3069-3087.

“On the Homology of the Spaces of Long Knots”, in “Advances in Topological Quantum Field Theory”. NATO Sciences series by Kluwer 2005, pp 23-52.

“Dyer-Lashof-Cohen operations in Hochschild cohomology”, *Algebraic and Geometric Topology*, Vol. 6, 2006, pp 875-894.

“On the other side of the bialgebra of chord diagrams”, *Journal of Knot Theory and Its Ramifications*, Vol. 16 (5), May 2007, pages 575-629.

SELECTED PREPRINTS

P. Lambrechts, (Turchin) “Homotopy graph-complex for configuration and knot spaces”, preprint IHES M/06/58, 14 pages, math.AT/0611766. submitted.

P. Lambrechts, (Turchin), I. Volic “The rational homology of the space of long knots in codimension >2 ”, preprint math/0703649.

Dan VoloK
Department of Mathematics

Education:

- Ph.D. The Weizmann Institute of Science, Rehovot, Israel, 2002.
 Thesis: "The Schlesinger System and the Riemann-Hilbert Problem."
 Advisor: Prof. V.E. Katsnelson.
- M.Sc. The Weizmann Institute of Science, Rehovot, Israel, 1996.
- B.Sc. Ben Gurion University of the Negev, Beer Sheva, Israel, 1994.

Appointments:

- 08/12/07 - present Assistant Professor, Department of Mathematics,
 Kansas State University, Manhattan, Kansas.
- 08/16/06 - 05/15/07 Visiting Assistant Professor, Department of Mathematics,
 The College of William & Mary, Williamsburg, Virginia.
- 02/01/05 - 08/15/06 Post Doctoral Fellow, Department of Mathematics,
 The Weizmann Institute of Science, Rehovot, Israel.
- 08/01/04 - 01/31/05 Visiting Post Doctoral Fellow, Circuits and Systems Group,
 Delft University of Technology, Delft, The Netherlands.
- 10/01/02 - 07/31/04 Post Doctoral Fellow, Department of Mathematics,
 Ben Gurion University of the Negev, Beer Sheva, Israel.

Selected papers:

H. Dym and D. VoloK, Zero distribution of matrix polynomials. *Linear Algebra and its Applications*, vol. 425 (2007): 714-738.

V. Katsnelson and D. VoloK, Deformations of Fuchsian systems of linear differential equations and the Schlesinger system. *Mathematical Physics, Analysis and Geometry*, vol. 9 (2006), no. 2: 135-186.

D. Alpay, M. Shapiro and D. VoloK, Rational hyperholomorphic functions in R^4 , *Journal of Functional Analysis*, vol. 221 (2005): 122-149.

D. Alpay and D. VoloK, Point evaluation and Hardy space on a homogeneous tree, *Integral Equations and Operator Theory*, vol. 53 (2005): 1-22.

Jianfa Bai, Ph.D.
Assistant Professor
Department of Diagnostic Medicine/Pathobiology

Education:

B.S. 1982 Plant Protection, Agricultural University, P. R. China University...
M.S. 1990 Plant Pathology, University of the Philippines at Los Baños, Philippine
Ph.D. 2000 Plant Pathology, Kansas State University

Professional experience:

August 2007-present: Assistant Professor, Veterinary Diagnostic Laboratory, Department of Diagnostic Medicine/Pathobiology, College of Veterinary Medicine, Kansas State University. Molecular Diagnostics.

August 2003-July 2007: Research Assistant Professor of Plant Pathology, and Director of Gene Expression Facility, Kansas State University.

May 2000-July 2003: Postdoctoral Research Associate with Dr. S. H. Hulbert, Department of Plant Pathology, Kansas State University.

Aug. 94-May 00: Ph.D. Graduate Research Assistant with Dr. Jan Leach, Department of Plant Pathology, Kansas State University.

Selected Refereed Journal Articles:

1. Leach, J.E., K. Webb, G. Ponciano, I. Oña, M. Madamba, J. Bai, H. Leung, and C. Vera Cruz. 2002. Pathogen fitness penalty as a predictor of durability of disease resistance genes. Pages 222-231 in *Biology of Plant-Microbe Interactions*, S. Miller, A. Bent, eds. ISMPMI Press, Minneapolis, MN.
2. J. E. Leach, C. M. Vera Cruz, J. F. Bai, H. Leung, 2001. Pathogen fitness penalty as a predictor of durability of disease resistance genes. *Annual Review of Phytopathology* 39: 187-224.
3. Steven E. Travers, Melinda D. Smith, Jianfa Bai, Scot H. Hulbert, Jan E. Leach, Pat S. Schnable, Alan K. Knapp, George A. Milliken, Philip Fay, and Karen A. Garrett. 2007. Genomic responses to simulated climate change in native populations of the grass *Andropogon gerardii*. *Front Ecol Environ*; 5 (1): 19–24.
4. Maddur, A. A., Xuming Liu, Yu Cheng Zhu, John P. Fellers, Brenda Oppert, Yoonseong Park, Jianfa Bai, Gerald E. Wilde, and Ming-Shun Chen. 2006. Cloning and Characterization of Protease Inhibitor-Like cDNAs from the Hessian Fly *Mayetiola destructor* (Say). *Insect Molecular Biology*, 15 (4), 485–496
5. Mahroof, R., K. Y. Zhu, L. Neven, B. Subramanyam and J. Bai. 2005. Expression patterns of three heat shock protein 70 genes among developmental stages of the red flour beetle, *Tribolium castaneum* (Coleoptera: Tenebrionidae). *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology* 141 (2), 247-256.

Joel M. DeRouchey
Department of Animal Sciences and Industry

Education:

B.S.	1984	South Dakota State University, Animal Science
M.S.	1999	Kansas State University, Animal Science (Swine Nutrition)
Ph.D.	2001	Kansas State University, Animal Science (Swine Nutrition)

Professional experience:

Current:	2004 - present	Associate Professor, Department of Animal Sciences and Industry, Kansas State University, Manhattan
Previous:	2001 - 2004	Assistant Professor, Department of Animal Sciences and Industry, Kansas State University, Manhattan
	1998 - 2000	Graduate Research Assistant, Department of Animal Sciences and Industry, Kansas State University, Manhattan

Selected Refereed Journal Articles/Publications/Significant Works of Scholarly Activity:

- Hanni, S. M., **J. M. DeRouchey**, M. D. Tokach, R. D. Goodband, J. L. Nelssen, and S. S. Dritz. 2007. The effects of dietary chicory and reduced nutrient diets on composition and odor of stored swine manure. *Prof. Anim. Sci.* 23:438-447.
- Gottlob, R. O., **J. M. DeRouchey**, M. D. Tokach, J. L. Nelssen, R. D. Goodband, and S. S. Dritz. 2007. Comparison of Whey Protein Concentrate and Spray-dried Plasma Protein in Diets for Weanling Pigs. *Prof. Anim. Sci.* 23:116-122.
- Linneen, S. K., S. S. Dritz, R. D. Goodband, M. D. Tokach, **J. M. DeRouchey**, and J. L. Nelssen. 2007. Effects of frequent out-of-feed events on growth performance of nursery and grow-finish pigs. *J. Anim Sci.* 2007;85 2043-2047.
- Gottlob, R. O., S. S. Dritz, M. D. Tokach, **J. M. DeRouchey**, R. D. Goodband, J. L. Nelssen, C. W. Hastad, C. N. Groesbeck, and C. R. Neill. 2007. Effects of water-based antimicrobials on growth performance of weanling pigs. *J. Swine Health Prod.* 15(4):198-205.
- Neill, C. R., M. D. Tokach, J. L. Nelssen, R.D. Goodband, **J.M. DeRouchey**, S.S. Dritz, C.N. Groesbeck, and K.R. Brown. 2007. Effects of afternoon or morning weaning protocols on pig growth performance. *J. Swine Health Prod.* 15(1):19-21.

Graduate Certificate in Stem Cell Biotechnology Request for Approval

Introduction

The Midwest Institute for Comparative Stem Cell Biotechnology (the Institute) was created in 2005 based upon emerging research and intellectual property development resulting from the discovery by Kansas State University personnel of a stem cell population in the matrix of the umbilical cord of humans and also domestic and laboratory animals. A website has been created for the institute: <http://www.vet.ksu.edu/research/stemcell/index.htm>

As is apparent from the website, stem cell research, development of related intellectual property and education in stem cell-related biotechnology are the primary goals. Significant progress has been made in research. All components of the pending patent have been licensed. Fees paid, while confidential under the licensing agreement, are the largest licensing fees ever received by the KSU research foundation by a large margin. The third element of the Institute's aims, education, is the subject of the present proposal.

Learning objectives

The overarching purpose of the proposed certificate program is to add value to other degrees in the biological and life sciences, specifically including animal sciences, veterinary medicine, biology and biochemistry.

Specific learning objectives are enumerated in the assessment plan.

Courses

The core courses in the certificate are:

AP 711. Stem Cells and Comparative Biomedicine. (2) II, S. Characteristics of major categories of stem cells. Applicable or potential clinical uses, including their utilization in tissue engineering or targeted delivery of therapeutics.

AP 850 Stem Cell Techniques. (2) I, S. Cellular and molecular techniques and techniques on tissue culture. Lecture and laboratory hours to be determined.

ASI 802. Gametes, Embryos, and Stem Cells in Farm Animals. (2) I, in odd years. A study of gametes, embryos, pregnancy, and stem cells in farm species including supporting information from laboratory species and humans. Emphasis will be on the regulation of stem cells, gametes, and embryos and on the conceptus-maternal interactions to establish and maintain pregnancy and program conceptus and postnatal development. Two hours lec. a week. Pr.: BIOCH 521.

ASI 902 Topics in Stem Cell Biotechnology. (1) A journal club course in stem cell biotechnology in fall semesters. One semester is required. It can be repeated twice for a total of three credits in the stem cell certificate. Students will evaluate the contribution of scientific papers to the field of stem cell biology, present scientific data, lead discussions of scientific literature, and become familiar with current concepts in the field of stem cell biology and biotechnology.

Elective courses for emphasis in research or entrepreneurship are:

AP 710 Microanatomy. Origin, development and microscopic structure of the cells and tissues for the animal body. Three hours lecture and six hours lab/week. Pr: First year standing in college of veterinary medicine. Fall semester.

AP 995. Problems in Physiology. (Var.) I, II, S. Special problem-involving techniques utilized in studying the function of various organ systems of the body. Pr.: Consent of instructor.

ASI 600. Applied Animal Biotechnology. (2) II. Emphasis will be placed on the current and future of animals in biotechnology related to food production as well as human medicine applications. Rec. Pr.: Senior standing, BIOCH 521 and ASI 500.

ASI 961. Graduate Problem in Animal Sciences and Industry. (1-3) I, II, S. In-depth study of a topic supervised by a member of the graduate faculty. Pr.: Permission of supervising faculty member.

BIOL 510. Developmental Biology. (3) II. Introduction to the stages and mechanisms of embryonic animal development. Integrated approach that includes classic experimental embryology and the genetic and molecular regulation of invertebrate and vertebrate animal development. Three hours lec. per week. Pr.: BIOL 450.

BIOL 670. Immunology. (4) II. Chemical, genetic, and biological properties of the immune response, acquired immunity, and antibody production. Pr.: Two courses in biology; and a course in biochemistry or equiv.

BIOL 671. Immunology Lab. (2) II. Laboratory exercises in immunology. Pr.: BIOL 670 or conc. enrollment. Three-hour lab a week plus one hour rec.

BIOL 705. Eukaryotic Genetics. (3) I. An integrated exploration of transmission genetics and molecular genetics of eukaryotic organisms. The focus will be on genetic model organisms and their contributions to our understanding of mechanisms of genetic transmission and exchange, mutagenesis, gene expression, and regulation of cell division and development. Modern approaches to genomic analysis will be discussed. Pr.: BIOL 450 and BIOCH 521.

BIOL 707. Advanced Cell Biology. (3) I. Selected current topics in cell biology which reflect recent advances in the field. Major topics include membranes and transport, protein sorting, signal transduction, cell adhesion and motility, cell cycle, apoptosis, and specialized cell functions. Pr.: BIOL 541.

BIOL 886. Confocal, Fluorescence and Light Microscopy. (3) I, in odd years. An introduction to theories, functions and applications of confocal, fluorescence and light microscopy, and fluorescent molecules. Lab emphasis on students working on independent research projects requiring microscopy. Two hours of lecture and three hours of lab per week.

DMP 705. Principles of Veterinary Immunology. (2) II. Innate and adaptive defense mechanisms in domestic animals. Topics include vaccinology, immunopathology, autoimmunity, immunodeficiency, and immunomodulation. Pr.: BIOCH 521 and BIOL 455

DMP 850. Immunology of Domestic Animals. (3) I. This course is designed to introduce graduate students to immune responses of domestic animals to pathogens and parasites. Pr.: BIOL 541.

DMP 878. Applications of Flow Cytometry. (1-3) I, II, S. Theory and practical experience in the use of flow cytometry in diagnosis and research. Pr.: Graduate standing.

MANGT 845 Technology Entrepreneurship and Strategies. (3)

No pre-requisites other than enrollment in graduate school. This is an evening course taught by Professor Katz and two practitioners in the technology entrepreneurship field.

GRAD 820. Leadership Practicum. (3) I, II. Develops the connections between leadership theory and practice. By conducting a practicum project, students demonstrate the ability to apply concepts and ideas from the study of leadership to a practical leadership problem within an organization. Pr.: GRAD 801 and MANGT 845. The practicum will be developed for stem cell certificate students with the theme "Leading an innovation to market".

PLPTH 610. Biotechnology. (3) I. The use of biotechnology and molecular genetic approaches in plant and animal sciences. Emphasis is on the use of molecular techniques for plant and animal improvement. Three hours lec. per week. Pr.: ASI 500. Same as AGRON 610.

Requirements

Students with graduate standing and a 3.0 GPA in a field in the biological sciences or with a cumulative GPA of 3.0 or higher in the DVM curriculum are eligible to enroll. Exceptions are possible upon approval by the coordinator in consultation with the faculty.

Fifteen hours are required:

AP850, ASI802, ASI902 and AP711 are required. ASI 902 may be taken either two or three times.

Any three of the remaining courses qualify for the remaining credit hour requirements. If BIOL707 is taken, BIOL541 may be required as a pre-requisite.

Meeting learning objectives

The core courses (AP711, AP850, ASI802, ASI902) are designed to ensure a benchmark level of knowledge about stem cell biotechnology. Elective courses are intended to allow for: (1) specific

advancement toward research competence in the field or (2) commercialization of stem cell and related technology.

Courses in the certificate may be included in graduate programs upon approval of the student's major professor and advisory committee. Inclusion of courses from other institutions and programs may be substituted for credit in the certificate in stem cell biotechnology with the approval of the program director in consultation with associated faculty.

Need for the proposed program

Stem cell biotechnology and regenerative medicine are emerging as central to the future of human and animal medicine and animal production. A supply of new scientists in basic disciplines with orientation to, or specific training in, stem cell biotechnology will be a necessary part of advancing this area of science, especially as political and social issues are untangled. The research and entrepreneurship tracks provided in the program will allow career flexibility that is becoming an ever-greater necessity for students.

It seems evident that, at this stage of the Institute's development, a graduate level certificate is best suited to capitalize upon the on-going research and intellectual property development. Once a certificate program is successfully established and a significant track record has accrued, consideration will be given to proposal of an interdisciplinary degree. However that would be premature at this juncture and in the near future.

The target audience for the proposed certificate includes graduate students in all the biological sciences, specifically including animal science, veterinary medicine, biology and biochemistry. Also some residents in clinical medicine and surgery may find it advantageous to gain increased expertise in the rising field of regenerative medicine. In addition students in the DVM curriculum that have aspirations toward research or corporate careers would find the certificate in stem cell biotechnology valuable.

Organization and Administration

The governing faculty for the certificate in stem cell biotechnology is comprised of the Kansas State University Founding Fellows of the Midwest Institute for Comparative Stem Cell Biology (see website <http://www.vet.ksu.edu/research/stemcell/index.htm>). The program director will be Duane L. Davis.

The administrative home of the certificate program will be the Institute. The governance of the Institute is explained on the website. Briefly, the Institute is situated administratively in the Office of the Vice President for Research. Oversight is provided by a liaison committee comprised of the Vice President for Research, the Dean of the College of Veterinary Medicine, the Dean of the College of Agriculture and the Vice Chancellor for Research of the University of Kansas Medical Center and an Executive Committee described in the website.

An extensive list of scientists and other faculty members are affiliated with the institute and are listed in the website. These individuals provide a ready source of highly qualified advisors to students in the certificate program.

Budget

The budget is anticipated to be nominal in that all of these courses in the program will be taught for other purposes also.

Faculty

The Founding Fellows of the institute at Kansas State University are Dr. Duane Davis, ASI; Dr. Deryl Troyer, AP; Dr. Mark Weiss, AP. These individuals, along with the program director, will supervise the program.

Program Director

The program director will be Dr. Duane L. Davis, Professor of Animal Sciences and Industry.

Learning outcomes and assessment

Learning outcomes and an assessment plan is attached.

Cover Sheet for Student Learning Outcomes

Directions: For each program (e.g., degree, certificate, minor, secondary major, etc.) and level (undergraduate and graduate), please complete separate cover sheets. Feel free to make copies of this sheet if needed. Those graduate programs with an integrated master's and doctoral program may provide one set of cover sheets.

Department / Unit: Midwest Institute for Comparative Stem Cell Biology

Title of Academic Program: Graduate Certificate in Stem Cell Biotechnology

Faculty contact(s) for the list of student learning outcomes for this academic program:

Duane Davis _____

Type of Degree (check one):

- Bachelor's Master's Ph.D. Ed.D.
 U. Certificate Minor Secondary major Associate
 G. Certificate
 Joint Degree (list the degree types): _____
 Other: _____

List of Student Learning Outcomes for this Degree Program

Please provide an attached list of learning outcomes or copy and insert them below.

1. Students completing the Graduate Certificate in Stem Cell Biotechnology will know cellular and molecular qualities that define stem cells; where stem cells may be found; and how stem cells can be isolated.
2. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.
3. Students completing the Graduate Certificate in Stem Cell Biotechnology will understand the emerging areas of application of stem cells in regenerative medicine and food animal health and production.

4. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess skills in culture of mammalian stem cells.

5. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess the knowledge, skills and social understanding to critically evaluate and articulate the range of ethical issues associated with stem cell biology.

Please check the description(s) that best reflect the information being submitted.

<input type="checkbox"/>	Faculty for The Midwest Institute for Comparative Stem Cell Biology have reviewed and endorse the list of student learning outcomes being submitted.	Date of Endorsement: _____
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Director, Midwest for Comparative Stem Cell Biology
Signature

Date

Dean of the Graduate School's Signature
(Required for Graduate Degree Programs)

Date

Template
Degree Program
Assessment of Student Learning Plan
Kansas State University

- X Check the box if your program's student learning outcomes have been modified since November 2003. If so, please email (apr@ksu.edu) or attach a hard copy to this document.

College, Department, and Date

Colleges: Veterinary Medicine and Agriculture
Department: Anatomy and Physiology; Animal Sciences and Industry
Date: February 23, 2007

Contact Person(s) for the Assessment Plans

Dr. Duane Davis

Degree Program

Graduate Certificate in Stem Cell Biotechnology

**Assessment of Student Learning Three-Year Plan
Student learning outcomes:**

- 1. Students completing the Graduate Certificate in Stem Cell Biotechnology will know cellular and molecular qualities that define stem cells; where stem cells may be found; and how stem cells can be isolated.*
- 2. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.*
- 5. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess the knowledge, skills and social understanding to critically evaluate and articulate the range of ethical issues associated with stem cell biotechnology.*

Relationship to K-State Student Learning Outcomes (insert the program SLOs and check all that apply):

Program SLOs	University-wide SLOs (Graduate Programs)			Program SLO is conceptually different from university SLOs
	Knowledge	Skills	Attitudes and Professional Conduct	
1. Know cellular and molecular qualities that define stem cells; where stem cells may be found; and how stem cells can be isolated.	X			Program SLO is consistent with University SLO.
2. Posses the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.	X	X		Program SLO is consistent with University SLO.
5. Posses the knowledge, skills and social understanding to critically evaluate and articulate the range of ethical issues associated with stem cell biology.			X	Program SLO is consistent with University SLO.

How will the learning outcomes be assessed? What groups will be included in the assessment?

Program SLOs	University-wide SLOs (Graduate Programs)			Program SLO is conceptually different from university SLOs
	Knowledge	Skills	Attitudes and Professional Conduct	
1. Know cellular and molecular qualities that define stem cells; where stem cells may be found; and how stem cells can be isolated.	1. Direct measure— Capstone exam. 2. Indirect measure— Career placement of certificate graduates.			Program SLO is consistent with University SLO.
2. Posses the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.	1. Direct measure— Paper presentations and participation in paper discussions in ASI 902 Topic/Stem Cell Biotechnology.	1. Direct measure—Oral paper presentations and participation in paper discussions in ASI 902 Topic/Stem Cell Biotechnology.		Program SLO is consistent with University SLO.
5. Posses the knowledge, skills and social understanding to critically evaluate and articulate the range of ethical issues associated with stem cell Biotechnology.			1. Direct measure— Attitude survey administered in ASI 902 Topics/Stem Cell Biotechnology	Program SLO is consistent with University SLO.

When will these outcomes be assessed? When and in what format will the results of the assessment be discussed?

1. Students completing the Graduate Certificate in Stem Cell Biotechnology will know cellular and molecular qualities that define stem cells; where stem cells may be found; and how stem cells can be isolated.

a. Upon completion of the coursework requirements for the Graduate Certificate in Stem Cell Biotechnology, all certificate seeking students will be expected to take a web-based comprehensive capstone exam covering fundamental aspects of stem cell biology (exam will be updated annually to reflect new developments in the field). Results of the exam will be shared with individual students upon completion. It is expected that students completing the Certificate will score 80 % or greater on the capstone exam. It is recommended that Ph.D. students take the exam prior to, or as a part of, their preliminary examinations and, at the discretion of their graduate committee, it could serve as a part of the determination of their readiness to enter candidacy for the Ph. D. degree.

b. Core scientists in teaching courses and conducting research through the Midwest Institute for Comparative Stem Cell Biology will be heavily engaged in training students that ultimately are awarded the Graduate Certificate in Stem Cell Biotechnology. It is expected that these students will secure employment in academia or allied industries in biomedical sciences. Therefore, placement of all graduate and DVM students after completion of their degrees will be tracked to gain indirect evidence that the Certificate may be adding value to master, doctoral and DVM degrees. Data will be gathered via a web-based survey of graduates administered within 12 months of graduation.

2. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess the knowledge and skills that allow them to critically evaluate the peer-reviewed literature in stem cell biology.

a. All students completing the Graduate Certificate will be required to enroll in ASI 902 Topics/Stem Cell Biotechnology. A rubric has been developed (attached) to assess student's working knowledge of stem cell biology as well as their oral communication skills in discussing stem cell biology.

3. Students completing the Graduate Certificate in Stem Cell Biotechnology will understand and have the skills to articulate the emerging areas of application of stem cells in regenerative medicine and food animal health and production.

4. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess skills in culture of mammalian stem cells.

5. Students completing the Graduate Certificate in Stem Cell Biotechnology will possess the knowledge, skills and social understanding to critically evaluate and articulate the range of ethical issues associated with stem cell biology.

a. All students will complete a survey that evaluates attitudes toward the diversity of ethical views surrounding the use of stems cells in animal research and therapeutics. The ability of students to be tolerant and understanding of diverse views will make them more effective professionals once in the workplace. This web-based survey will be updated annually to include developing concerns and views and will be administered to all students in their first semester of enrollment in ASI 802 and again in their final semester in ASI 902 (coincident with completion of the coursework requirements for the Certificate). Completion of both surveys will be a requirement for successful completion of the Certificate.

What is the unit's process for using assessment results to improve student learning?

The faculty coordinator for ASI 902 in each fall semester offering of the course will be responsible for summarizing assessment data for Certificate graduates from the previous academic year, as well as comprehensive data accumulated from all Certificate graduates (at least three years may be required to accumulate sufficient numbers of Certificate graduates to obtain some measure of reliability of the data). The data will be presented to both core faculty and graduate students sometime during the first four meetings of ASI 902. The data will be discussed (among faculty and students) and where results of assessment point to failure to attain the expected outcome, a corrective course of action will be recommended. This course of action may point to appropriate changes in curriculum and(or) fine tuning of assessment tools.

First reading. Changes to the Graduate Handbook, Chapter 2, The Master's Degree, Section A - Admission and General Requirements

To gain admission to a Master's program, the student must be approved for admission both by the graduate faculty of the department or interdepartmental program and by the Graduate School.

A minimum of thirty semester hours of graduate credit is required for a master's degree, but some academic units may require more.

The Graduate School recognizes three different plans for a master's degree, and the graduate faculty in each academic unit may accept one or more of them. The three possibilities are:

1. *Thesis option:* As a part of the degree program the student will complete a thesis for 6 to 8 hours credit.
2. *Report option:* As a part of the degree program the student will complete a written report for 2 hours credit on research or on a problem in the major field.
3. *Course work option:* The student's degree program will consist of course work only, but it will include evidence of advanced work, such as term papers, objects of art, music, or designs, as determined by the committee.

Not all master's programs offer all three options, and a student may not select a plan that has not been approved by the graduate faculty of the program in which he or she is enrolled.

~~All master's candidates must pass a final oral examination, a comprehensive written examination or both as determined by the academic program.~~

A culminating experience is required to earn a master's degree. The culminating experience should verify the student's competence to synthesize information across the student's program of study. The culminating experience will occur after the student has completed the program of study and other requirements or during the term in which the candidate intends to complete them. The Supervisory Committee is responsible for administering the culminating experience and must include at least 3 graduate faculty members. The majority of the Supervisory Committee must vote in favor for the student to pass his/her defense (a tie vote is a failure). The major professor is responsible for returning the signed ballot to the Graduate School.

For students pursuing a thesis or report option, the culminating experience shall be a defense of the thesis or report.

For students pursuing a coursework only degree, the experience may be an interpretation of scholarly work, a test of the student's understanding of the field or other culminating

experiences. It is the responsibility of the academic unit to provide culminating experience guidelines for each coursework-only master's degree that the department offers. Examples could include concerts, portfolios, final written or oral examinations, case studies, or whatever the program deems appropriate.

To be awarded a master's degree, the student (a) must have a bachelor's degree or equivalent, (b) must not be on probation, (c) must have a cumulative grade point average (GPA) of 3.0 or higher, (d) must meet all the requirements of the Graduate School, the student's academic program area, and the student's supervisory committee, and (e) must be enrolled during the semester in which the degree requirements are completed.

First reading. Changes to the Graduate Handbook, Chapter 3, The Doctoral Degree, Section L – Final Examination

When the student is admitted to candidacy, the Dean of the Graduate School appoints an examining committee. This committee consists of the supervisory committee and a member of the graduate faculty not on the supervisory committee. For Ed.D. candidates the outside chair will be a graduate faculty within the College of Education. The additional member serves as chairperson for the final oral examination.

The outside chairperson, as the representative of the Graduate School, is responsible for conducting the final examination in an orderly manner, evaluating it as a test of the candidate's expertise, submitting the final examination ballot, and making other reports as appropriate or required. As a member of the examining committee, the chairperson also has the right and the responsibility to evaluate the candidate's performance and to cast a vote.

The major professor is responsible for submitting the ETDR ~~ballot Approval Form~~ to the Graduate School. By submitting the signed ETDR ~~ballot Approval Form~~, the major professor indicates that he/she has reviewed and approved the final PDF file for electronic submission.

The responsibilities of the examining committee are:

1. To examine the doctoral dissertation and to report on the Approval To Schedule Final Examination Form whether the dissertation is acceptable for review. At least three-fourths of the committee must agree that it is in acceptable form before the final examination may be scheduled. All members must sign their approval or disapproval. By signing, a faculty member indicates only that the form of the dissertation is acceptable for review and that a final examination may be scheduled. Signing does not imply that the content of the dissertation is satisfactory.
2. To hold a public oral examination, after the dissertation is deemed acceptable in form, at which the candidate presents and defends the dissertation; and to report the result of this examination to the Dean of the Graduate School. All members of the examining committee (or substitutes appointed by the Dean of the Graduate School) are expected to be present throughout the examination. At least three-fourths of the examining committee including substitutes appointed by the Dean of the Graduate School must approve the candidate's performance before he or she is deemed to have passed. A refusal to vote by the chairperson or any other member of the examining committee shall be recorded as a negative vote. With the permission of at least three-fourths of the committee, a failed oral examination may be retaken but no sooner than three months from the date of the failure.

Normally the oral examination will be open to the public. All or part of the exam may be closed at the request of the major professor with only the committee,

candidate and others approved by the major professor, attending the exam. Such a request with a justification for the examination not to be open, such as presentation of data on a pending patent or confidential materials based on existing contract, must be received by the Graduate School before the exam is scheduled and must be approved by the Dean of the Graduate School.

The final oral examination may be taken when the student has completed the program of study and satisfied all other program requirements. All final examinations must be given on the Manhattan campus and scheduled at least two weeks in advance.

When the dissertation has been approved, the oral final examination has been passed, and all other requirements have been met, the candidate is recommended by the Dean of the Graduate School to the Faculty Senate for approval to award the degree.

First reading. Changes to the Graduate Handbook, Chapter 4, Graduate Certificate Programs, C.3 Criteria for Approval

The overarching principles applied to the assessment of the academic quality of proposals for new graduate certificate programs include:

- a. The proposed sequence of coursework must offer a clear and appropriate educational objective at the post-baccalaureate level.
- b. The proposed program must achieve its educational objective in an efficient and well-defined manner.
- c. A demonstrated need or demand for such a program must exist. This provision may be defined in terms of either external markets (e.g., external demand for the skills associated with such a certificate) or internal academic needs (e.g., the need for a critical mass of students in a given discipline).
- d. The certificate program must include an appropriate number of credit hours, normally between 12 and 20.
- e. The Assessment of Student Learning Plan must be approved by the Graduate Council Assessment and Review Committee.

**First reading. Chapter 6, Graduate Council Constitution, By-Laws, Procedures, E.1
New Graduate Programs**

All requests to offer new graduate degree programs and graduate certificate programs must be approved by the Graduate Council.

- a. The following approvals are mandatory, in the order given: the department or program Graduate Faculty, the department head or program chairperson, other departments or colleges offering similar material, college course and curriculum committee, college faculty (unless the course and curriculum committee is the official representative of the college faculty), and college dean. The Assessment of Student Learning Plan must be approved by the Graduate Council Assessment and Review Committee prior to submission of the proposal to the Graduate Council Academic Affairs Committee.
- b. The request is forwarded to the Dean of the Graduate School, who sends it to the appropriate Academic Area Caucus for their information and review, and to the Graduate Academic Affairs Committee for their review. The Academic Affairs Committee may request clarification, additional information, or consultation.
- c. The Graduate Academic Affairs Committee returns the request with its recommendation to the Graduate School. If the advanced degree is approved by the Committee, it is sent to the Graduate Council for action. If it is not approved, the submitting department head or program chairperson is notified in writing by the Dean of the Graduate School of the reasons for rejection.
- d. If the department or program does not agree, the department head or program chairperson has the right to appeal by supplying written notice to the Dean of the Graduate School and requesting that the recommendation be placed on the agenda of the next regularly scheduled Graduate Academic Affairs Committee meeting and that the department head or program chairperson be allowed to discuss the decision.

First reading. Changes to the Graduate Handbook, Appendix B

The faculty of individual graduate programs should establish policies regarding an appropriate style and general format of dissertations, theses and reports for their students. In the absence of detailed program requirements, the supervisory committee is responsible for specifying the style and general format to be used. Specific format requirements may be found in the current Student Guide for Master's and Doctoral Candidates, available on the Graduate School website.

Regardless of the style and format used, a thesis or dissertation must be sufficiently complete to allow an independent investigator to repeat or verify all of the work leading to the author's results and conclusions. In certain cases, when a manuscript prepared for publication is to be used, the terseness or page restrictions required by professional journals may prevent an author from meeting this condition with the publishable manuscript alone. In such cases, the thesis or dissertation must include additional materials that ensure independent reproducibility tables, descriptions of unproductive or unsuccessful explorations, derivations, and so forth.

An abstract, not exceeding 350 words, must accompany each copy of the dissertation, thesis or report. A thesis or dissertation must also include a title page that carries the signature block listing the major professor(s).

~~All theses and reports are to be bound in accordance with specifications for Class A binding of the Library Binding Institute. To cover the cost of binding, the student must deposit a money order made out to an approved bindery. Specific information is available in the Graduate School. The university library will forward manuscripts to the bindery.~~

All dissertations, theses and reports are submitted electronically. Details regarding specific requirements are available on the Graduate School website at: <http://www.k-state.edu/grad/etdr>. Dissertations, theses and reports are submitted to K-State Research Exchange (KREx). Access to all Electronic Theses, Dissertations and Reports (ETDR) are available at KREx. KREx is located at: <http://krex.k-state.edu/dspace>.

Dissertations theses, and reports may be bound for personal use through Heckman Bindery and Houchen Bindery. Heckman Bindery information is available on the Graduate School ETDR website at: <http://www.k-state.edu/grad/etdr/bound.htm>.

B. PUBLICATION

A dissertation is an original contribution to knowledge, and it should be available to interested scholars outside of Kansas State University. After completing their doctorate, authors may publish their dissertation in any form they see fit, but the University participates in a program intended to make these works accessible to the widest possible audience.

Dissertations are microfilmed by UMI/ProQuest, and the abstracts submitted with them are published in Dissertation Abstracts. Works so listed are available from UMI/ProQuest as on-demand publications. A publication form from UMI/ProQuest must be completed online and submitted with the electronic dissertation.

~~Access to all ETDR's (electronic theses, dissertations, reports) is available through K-State Research Exchange (K-REx). The full text is available in PDF format, supplemental files are available in their native format.~~

C. SEQUESTRATION

The purpose of sequestration is to delay for a limited time public dissemination of patentable or otherwise proprietary or sensitive materials. Prior to the final defense, the student and his/her major professor may request that the University act to protect the student's rights concerning the dissertation, thesis, or report by temporarily sequestering the work. Approval must be obtained from the Dean of the Graduate School at least 30 days prior to graduation.

If the dissertation, thesis, or report does not contain material believed to be patentable, the student's major professor should send a request of sequestration directly to the Dean of the Graduate School. If the dissertation, thesis, or report does contain material believed to be patentable, the student's major professor notifies the University Patent Advisory Committee. The chairperson of the University Patent Advisory Committee notifies the major professor of the committee's decision. The major professor sends a letter to the Graduate School requesting sequestration.

If approved by the Dean of the Graduate School, the Graduate School defers electronic submission of the dissertation, thesis, or report. In place of electronic submission, a disk or CD of the PDF file(s) is submitted to the Graduate School. The disk or CD is stored in a secure location in the Graduate School during the period of sequestration. However, this procedure involves no delay in the conferral of the degree. The student whose dissertation, thesis, or report has been approved for sequestration still deposits with the Graduate School the normal fees for graduation. These fees cover the ETDR submission fee and cost of microfilming by UMI/ProQuest, if applicable, at the time of degree completion.

Sequestration is normally limited to four years. Nevertheless, under compelling circumstances that require continued protection, the Dean of the Graduate School may approve further sequestration at the student's or major professor's request on a year-by-year basis for an additional three years.

If the request for sequestration is approved, the Graduate School provides the student a preliminary receipt for the required disk or CD after it is submitted. After the sequestering period, Graduate School provides the student and major professor a receipt indicating the ETDR file(s) have been made available through K-State Research Exchange and submitted to UMI/ProQuest.

As long as the disks or CD remain in the secure location within the Graduate School, access to them may be obtained only with the student's and major professor's written permission authorizing the type of access. On each occasion when the document is reviewed, it will not leave the Graduate School and the user must sign a form on the same day on which he or she uses them indicating he/she had access to the document.

At the end of the sequestration period, the University has the right to disseminate information from the dissertation, thesis, or report as an original contribution to knowledge. For the dissertation, publication normally will be accomplished by electronically submitting the work to UMI/ProQuest for microfilming.