

KU's LBA hosts the
1st International
Conference on
Human Migration.

New graduate
students and visit-
ing scholars join
KU's LBA.

Recent graduates
receive fellowships,
honors, and train-
ing.

Current projects at
the LBA span four
continents and
include collabora-
tors from four
institutions.

INSIDE THIS ISSUE:

About the Newsletter	1
LBA Affiliates in Action	1
LBA Director News	2
Recent Graduate Accomplishments	2,6
2009-2010 Graduation	3
Spotlight on Past Graduate	3
ICOHM	4-5
What's Happening Now	6-7
Alumni News	7
Publications and Presentations	8-9
LBA Makeover	10
Potluck Recipe	10
What to Expect	11
About the LBA	11



About the Newsletter

By Stephen Johnson

The LBA is excited to announce the first edition of the bi-annual LBA newsletter. This newsletter will highlight recent research, projects and publications by our outstanding members, as well as the exciting events and projects on the LBA's horizon. We also wish to introduce our alumni and affiliates, as a way of getting to know new and past members and keeping

in touch with all of the LBA family.

We would like to thank the various LBA staff and alumni who have contributed to this newsletter and extend our appreciation to those who volunteered as editors: Anne Justice, Kristine Beaty, and Jennifer Vang. A special thanks also goes out to Dr. Crawford for all of his support and hard work.



Winter on the Hill.

We look forward to hearing from our past graduates and affiliates and encourage them to contribute to upcoming issues. If you wish to contact us regarding future submissions, our contact information is located on the last page.

LBA Affiliates in Action

By Michael Crawford

The LBA joined Northwestern University and the University of Oregon in signing an agreement with the FGS Institute of Health, Yakutsk for the study of cardiovascular risk factors and the role of the thyroid in cold metabolism and adaptation. The first research team, consisting of Josh Snodgrass (Oregon), Bill Leonard (Northwestern) and Larisa Tarskaia (Kansas) are scheduled to commence

investigations after January in Yakutia (Saha) Russia.

James Timbuak arrived on October 12, 2010, from the Department of Anatomy, Faculty of Medicine, Ahmadu Bello University, Zaria, Nigeria on a one-year fellowship from the Nigerian Government. He is here to receive training in molecular and population genetics and to analyze DNA from four Nigeri-

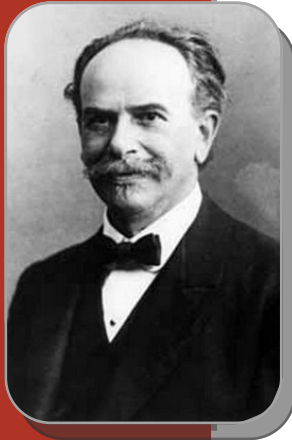
an populations who belong to the Benue-Congo linguistic groups: Atyap, Bajju, Gworok, and Chawai.



James Timbuak, visiting scholar from Nigeria.

LBA Director News

By Michael Crawford



Franz Boas (1858-1942)

“Purpose of the Franz Boas Distinguished Achievement Award is to honor a member of the Association for exemplary contributions to human biology in science, scholarship and other professional service.”

Professor M.H. Crawford, Director of the Laboratory of Biological Anthropology will be receiving the Franz Boas Distinguished Achievement Award, April 14, 2011, at the luncheon of the Human Biology Association meeting in Minneapolis, Minnesota. According to the HBA website, the “purpose of the Franz Boas Dis-

tinguished Achievement Award is to honor a member of the Association for exemplary contributions to human biology in science, scholarship and other professional service.” The criteria include: “the recipient shall be identified as a leading figure in our profession, either in the United States or

from abroad” (HBA website). Seven of the past recipients were from countries other than the United States.

Michael Crawford was appointed to the Wenner-Gren Foundation grant review panel for Biological Anthropology for a two-year term, 2010-2012.

Recent Graduate Accomplishments

By Anne Justice

Phil Melton (PhD 2008) currently holds a post-doc position at Texas Biomedical Research Institute (f.k.a. SFBR), department of Genetics. He received a Cowles fellowship to work under the direction of Laura Almasy. His research currently focuses on identifying loci linked to cardiovascular disease in minority populations within the United States. He has

received additional training in statistical methods outside of his post-doc including a short course, Genetics of Complex Diseases Course

this past summer at the Cold Springs Harbor Laboratory in New York. In the past year, Dr. Melton published 3 new articles (Genetic Influences on Serum Bilirubin in American Indians: The Strong Heart Family Study. *American Journal of Human Biology*; Bivariate genetic association of *KIAA1797* with heart rate in American Indians: The Strong Heart Family Study. *Human Mol. Genet*; and Mitochondrial DNA diversity in Menonites from the Midwestern United States. *Human Biology*). Dr. Melton has also presented his research at six different meetings and workshops (ASHG, GAWs, IGES, AAPA, HBA,

and the Migration Conference).

Geetha Chittoor (PhD 2009) also holds a post-doc position with the Texas Biomedical Research Institute. She works under the direction of Dr. Ravi Duggirala (also a former LBA graduate). Their research focuses on the localization and identification of genes influencing common complex diseases such as type 2 diabetes mellitus, obesity, metabolic syndrome, and gallbladder disease. They apply statistical genetic methods including variance component techniques and extensions to understand the genetic basis of complex disease phenotypes. She is cur-

(Continued on page 6)

Dr. Phil Melton relaxing at the AAPA 2010 with his former LBA lab-mates.



2009-2010 Graduation

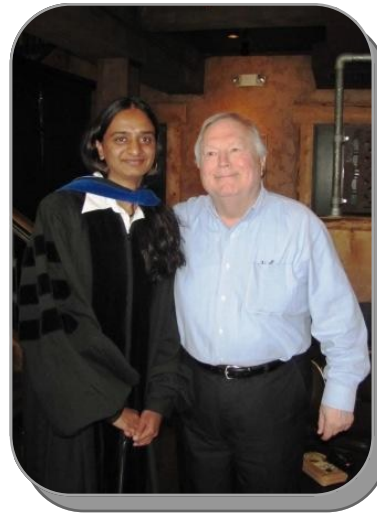


Top Left: Geetha Chittoor, Kristie Beaty, and Kris Young outside of Lippincott. Top Right: Geetha Chittoor hooded by Dr. Crawford. Bottom: Kristie Beaty, Orion Graf, Dr. Crawford, and Jasem Theyab.

Saturday, May 15, 2010, was particularly eventful with Michael Crawford hooding three doctoral and three MA graduates. Doctoral candidates included: Geethavani Chittoor (Genetic Epidemiological Investigation of Blood Pressure and its Metabolic Correlates in Mexican American Children), Jay Sarthy (Mechanisms of Telomeric Protection and Deprotection in Human Cells), and

Kristin Young (The Basques in the Genetic Landscape of Europe).

Michael Crawford hooded three Master's candidates: Kristine G. Beaty (Finding the 'Scot' in the Scottish-American), Orion Graf (Surname Distributions, Origins, and Their Associa-



tions With Y-Chromosome Markers in the Aleutian Archipelago) and Jasem Theyab (The Genetic Structure of the Kuwaiti Population: DNA Markers). All three were accepted into the Ph.D. program in Biological Anthropology at KU.

A special ceremony was held at Stonecreek to hood Geetha Chittoor, due to a much delayed flight.

Spotlight on Past Graduates of the LBA

By Anne Justice

MJ Mosher was appointed Assistant Professor on a tenure track position in the Department of Anthropology, Western Washington University in Bellingham, Washington. She is currently finishing a chapter based on her presentation at KU's ICOHM regarding the role of diet and epigenetics in migration. She also has begun collaborating with the Texas Biomedical Research Institute (Tony

Commuzie and Saroja Voruganti) to replicate the sex-by-APOE by leptin effects on serum lipid variation which she found in the Mennonite Data (results presented at the AAPA 2010). This study will be on Hispanic Family Data.

Her lab at WWU functions in affiliation with Critical Junctures Institute in Bellingham. She hopes it will pro-

vide the solid base for developing a project to examine the research regarding epigenetic effects on immigrant families.

When asked about her recent accomplishments, she had this to say, "Got the job, got the lab, got more work to do than ever before."



MJ Mosher received her PhD from KU in 2002.

KU Hosts 1st International Conference on Human Migration

By Michael Crawford

"The afternoon session featured a presentation by Dr. Eske Willerslev, the director of the Centre of Excellence in GeoGenetics at the University of Copenhagen, Denmark."

For a complete list of presentations and full abstracts, please visit the Conference Website at <http://www2.ku.edu/~lba/Human%20Migration/index.shtml>

The Laboratory of Biological Anthropology organized and sponsored the first International Conference on Human Migration held March 1-3, 2010. This meeting, held at the Commons facilities in Spooner hall, was funded by: the Commons Interdisciplinary Research Initiative in Nature and Culture of KUCR, Center for Global and International Studies, Evogen (genomic development and research company), KU's College of Liberal Arts and Sciences, Latin American Studies and the Department of Anthropology. Additionally, the Spencer Museum of Art held a special exhibition, "Echoes of Human Migration," in honor of this international meeting.

More than 100 faculty and students registered for the open portion of the program. Participants represented ten different countries and were affiliated worldwide with 25 institutions. The participants of the Migration conference were first welcomed by KU chancellor Bernadette Gray-Little. This welcome was followed by Pro-

fessor Michael Crawford, who challenged the participants with a list of planned tasks to be accomplished during this conference.

The morning session was initiated with two one-hour keynote addresses, one by Mark Stoneking (Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany) and the other by Jonathan Wells and Jay T. Stock (Childhood Nutrition Research Centre, London, and Cambridge University). Dr. Stoneking spoke about the "Genetic evidence concerning the origins and dispersals of modern humans," providing unequivocal evidence for the human migration out of Africa. His talk was followed by Dr. Wells' presentation on "The biology of the colonizing ape," providing evidence on the nature of human expansion and adaptation in the global diaspora. Dr. Benjamin Campbell (University of Wisconsin-Milwaukee) next provided a thought-provoking lecture on "Migration: risk-taking or decision making—what the evolutionary approach can tell us." This presentation integrated knowledge about dopamine receptor variation, novelty seeking and risk taking as contributing factors to human migration. Professor Crawford summarized the "Evolutionary consequences of migration" using examples from his research on the Garifuna of Central America and the settlement of the Aleutian archipelago. The morning ended with "An anthropological genetics perspective of the peopling of the Americas," by Dr. Ripan Malhi (University of Illinois, Urbana-Champaign). He provided the most current interpretations of the mi-

(Continued on page 5)

Poster Session held in the Commons, Tuesday evening.





Participants enjoying dinner on their last night together.

gration and peopling based on molecular evidence.

The afternoon session featured a presentation by Dr. Eske Willerslev, the director of the Centre of Excellence in GeoGenetics at the University of Copenhagen, Denmark. He reviewed the current evidence from “Ancient DNA and early peopling of the New World Arctic,” and discussed the first whole genomic sequencing of a 4000 year old Paleo-Eskimo from Greenland. This Paleo-Eskimo, nick-named “Inuk”, did not cluster genetically with contemporary Inuits of Greenland and Alaska, or with the Siberian Yupik Eskimos, instead the Paleo-Eskimo had closest genetic affinities to Chukchi and Koryaks of Siberia. This relationship was interpreted as indicative of a late (5000 years bp) migration out of Siberia-- well after the Bering landbridge was inundated. A complete discussion of Inuk and his phylogenetic relationship to the people of Beringia can be found in the Feb. 12th issue of *Nature*.

This conference featured a number of distinguished national and international speakers, including six from Mexico (the National Autonomous University and the Polytechnical University of Mexico); a Brazilian group from Rio Grande do Sul and Brazilia); a group from Colombia, who discussed forced migration in indigenous populations of Northwestern Amazon. Due to health problems, Philippe Lefevre-Witier (CNRS, Toulouse, France), was unable to attend, however, his contribution “Tuareg Iwellemeden: A migra-

tion for pastoral survival,” was most notably presented by Anne Justice.

The Department of Anthropology was well represented with presentations by six faculty members: Majid Hannoum, Bartholomew Dean, John Janzen, Felix Moos, Bruce Rothschild, and Ivana Radovanovic. A total of 13 posters were presented during a Poster Session on the evening of March 1st by graduate students and faculty from Canada, Mexico and KU. The LBA was well represented by posters from Norberto Baldi-Salas, Kristine G. Beaty, Kristin Young, Anne Justice, Christine Phillips-Krawczak, Orion Graf. This session was chaired by Professor William Woods (Department of Geography, KU).

“Participants represented ten different countries and were affiliated worldwide with 25 institutions.”

Additionally, a “brain-storming” session was held during the morning of March 3rd. During this session it was decided that a subset of these proceedings should be published as a volume “Causes and Consequences of Human Migration.” This volume is currently under contract with Cambridge University Press. After peer review, a few additional chapters are being added to cover regions of the world that were not included in the conference. Alan Fix (UC-Irvine) is contributing a chapter on Kin Structured Migration in Malaysia, Igor Mokrousev (Pasteur Institute, St. Petersburg) the spread of the Beijing strain of *Mycobacterium* into Europe through the conquest of Genghis Khan, and Lisa Matisoo-Smith (Otago University in New Zealand) on the peopling of Oceania. This volume is scheduled for release in early 2012.



Participants of the 1st International Conference on Human Migration. Photo by LBA member Kristine G. Beaty.

What's Happening Now

By Jennifer Vang and Anne Justice



Chris Krawczak and Rebecca Crosthwait stand in front of their poster's at the International Migration Conference.

The current grad students of the LBA are busy in the wet lab, the classroom, and at their desks.

Since the completion of her Master's in Fall 2009, Kristine G. Beaty began 2010 as a PhD student, finishing her last semester as GTA for the Introduction to Physical Anthropology course. During the spring, Kristine presented two posters on her research examining Scottish identity through molecular markers at the International Conference on

Human Migration and the University of Kansas Graduate Research Competition. During the summer and fall semesters, she worked with Dr. Devon Mihesuah from KU's Global Indigenous Nations Studies researching resource use in the historic environment of Indian Territory and completed her course and FLORS requirements. This spring, Kristie is a GTA for the Biology Department, teaching Human Physiology Labs, as well as

Safety Coordinator for the LBA.

Orion Graf completed his Master's in 2010, as well as published his first article and presented research at the Human Migration Conference and the AAPA meetings. He is currently a graduate teaching assistant for the department of Ecology and Evolutionary Biology, teaching Human Anatomy Dissection Laboratory. Orion and Derek Jackson are the current LBA Webmaster's.

(Continued on page 7)

Recent Graduate Accomplishments

By Anne Justice

(Continued from page 2)

rently performing a genome-wide linkage scan to localize genes that influence variation in prematurity, using data from Mexican American families with extended pedigrees who are part of the San Antonio Family Birth Weight Study (SAFBWS). The team utilized a variance-components approach, using a liability model for discrete traits to map susceptibility loci for preterm births.

Geetha is working on two other projects with the Texas team, and expects findings to be published this coming year (Linkage of the metabolic syndrome to a genetic location on chromosome 7q in Mexican Americans: Preliminary search for genetic variants in the positional candidate genes CD36 and GNAT3 and Common

genetic influences on birth weight and its adult disease correlates in Mexican Americans: The San Antonio Family Birth Weight Study.)

Kris Young (PhD 2009) recently received a faculty position at the KU Medical School where she has held a post-doc position under the direction of K. Allen Greiner, MD, MPH and Kim Kimminau, PhD. She has presented at three conferences (International Migration Conference, HBA, and Sunflower Scholars). Kris has received several awards and fellowships to assist her in career development (K30 Clinical Research Fellowship, NRSA Postdoctoral Fellowship, Phi-Beta-Kappa). Dr. Young attended the NIH Summer Institute for Transdisciplinary Research: Integrating Genetic and Social Work Research and four workshops related to Healthcare, grant writing, professional development and health disparities. This year she is also serving on the election committee for AAAG.

(Continued from page 6)

Stephen Johnson came to the LBA from Pennsylvania. Stephen is currently pursuing a Masters degree in Biological Anthropology with a focus in anthropological genetics. He has been selected as a GTA for the Fundamentals of Physical Anthropology this semester. In 2010, Stephen presented a paper at the Society for Applied Anthropology meetings in Merida, Mexico. He

has been training in the LBA with Anne Justice and is looking forward to starting his own work.

“...students of the LBA are busy... finishing... presenting... completing... training... teaching...” Anne Justice completed fieldwork for her dissertation work looking at the genetic structure of Maya population in Guatemala. In 2010, Anne was instructor for Controversies of the Living and Dead with the Anthropology Department and GTA

for Global Environment I for the Environmental Studies Program. She continues to teach the on-line Fundamentals of Physical Anthropology course through Continuing Education and currently teaches Global Environment II for the Environmental Studies Program. She will continue on as Lab Manager for the LBA for her third year. In 2010, Anne published her first article, presented research findings at four conferences (Human Migration, AAPA, ASHG, and KU’s Graduate Student Research Competition). She was nominated for the Outstanding Student Service Award, won third place in the Graduate Student Research Competition, received the Graduate Student Scholarly Presentation Travel Fund. She is currently collaborating with Evogen, a Kansas City genomics laboratory, to design probes for rapid detection of Y-chromosome SNPs. Preliminary results were presented at the ASHGs.

Chris Krawczak presented two posters in 2010 at the Migration



Kristie Beaty presenting her research at the International Human Migration Conference.

Conference and the ASHG. She is also part of the ongoing collaboration between Evogen and the LBA.

Delisa L. Phillips joined the lab as a PhD student in Fall 2009 from the University of New Mexico. In 2010, Delisa published her first article. She is currently a GTA for Fundamentals of Physical Anthropology.

Jennifer Vang joined the LBA from the University of Indiana. As an undergrad, she presented a poster at the International Human Migration Conference at KU, where she got to meet her future lab-mates. This winter she collected samples for the Hmong Mitochondrial DNA project while attending the 2010/2011 Hmong International New Year Festival in Fresno, CA.

Alumni News

By Michael Crawford

Rohina Rubicz (Ph.D. 2007) and post doc (Cowles Fellowship) at the Texas Institute for Biomedical Research published an article in *Human Biology*, which was selected by an international jury as winner of the 2010 Gabriel W. Lasker Award. An interview of Rohina by Franz Manni (executive editor of the journal) will be featured in an issue during 2011.

At the 2011 annual meetings, Dennis O’Rourke (Ph.D. 1980, currently Professor, University of Utah) steps down from the presidency of the American Association of Physical Anthropology (AAPA).

Lorena Madrigal (Ph.D. 1987, currently Professor, University of South Florida) was elected incoming president of AAPA. She served a two-year term as vice-president of the organization.

Ravindrannath Duggirala (Ph.D. 1995, Texas Biomedical Research Institute) received the 2010 Hind Rattan award from the NRI, Welfare Society of India. This award is given on a yearly basis to members of the worldwide Indian diaspora who make significant contributions to their respective fields. Ravi contributed to the scientific understanding of diabetes and obesity and trained Indian physicians and scientists through workshops.

"LBA contributors are listed in bold, with previous LBA grads in italics."

AJPA

Human Biology

Nature

Annals of Human Biology

ASHG

SfAA

Rohina Rubicz at the ASHG Conference in Washington D.C.



Recent Publications and Presentations by Current LBA Students and past Graduates in 2010

The following is a list of recent publications and presentations to come out of the LBA. LBA contributors are listed in bold, with previous LBA grads in italics.

Publications:

Crawford, MH (2010) History of Human Biology (1929-2009). *Human Biology* 82 (3): 331-42.

Crawford, MH (2010) Chapter Anthropological Genetics: Methods and Theories. In: *Molecular Biology: Methods and Fundamentals*. UNAM: Mexico City (In Spanish).

Crawford, MH (2010) Settlement of the Aleutian Islands and its genetic sequelae. *Estudios de Antropología Biología* 14: Proceedings from the Juan Comas Congress, Chiapas, Mexico, UNAM.

Crawford, MH, *R Rubicz* and *M Zlojutro* (2010) Origins of the Aleuts and the Genetic Structure of Populations of the Archipelago: Molecular and Archaeological Perspective. *Human Biology: Special Double Issue* (Oct. Dec.), 82 (5-6): 695-718.

Graf, O, *M Zlojutro*, *R Rubicz* and **MH Crawford** (2010) Surname distributions and their association with Y-chromosome markers in the Aleutian Islands *Human Biology* Oct-Dec. 82(5-6): 745-758.

Melton, PE, *MJ Mosher*, *R Rubicz*, *M Zlojutro* and **MH Crawford** (2010) Mitochondrial DNA diversity in Mennonite communities from Midwestern United States. *Human Biology* 82 (3): 267-289.

Justice, AE, *R Rubicz*, *G Chittoor*, *RL Jantz*, and **MH Crawford**. (2010) Anthropometric Variation Among Bering Sea Natives. *Human Biology*, 82 (5-6): 653-675.

Mosher, MJ and **MH Crawford** (2010) Chapter-- Human sexual dimorphism underlying gene-by-nutrient interaction, Nutrition and Diet Research Programs (ed. I.R. Laidy), Nova Scientific Publishers, Inc., pp. 91-118.

O'Rourke, DH, *DL West* and **MH Crawford** (2010) Unangan Past and Present: The Contrasts Between Observed and Inferred Histories. *Human Biology* Oct.-Dec. 82(5-6): 759-764.

Phillips, DL, *JC Rose*, and *WM van Haarlem* (2010) Bioarchaeology of Tell Ibrahim Awad. *Egypt and the Levant* 19: 157-210.

Predazzi, IM, *C Martinez-Labarga*, *L Vecchione*, *R Mango*, *C Ciccacci*, *F Amati*, *C Ottoni*, **MH Crawford**, *O Richards*, *F Romeo*, and *G Novelli* (2010) Population differences in allele frequencies. *Annals of Human Biology* 37(2): 136-48.

Rasmussen, M, *Y Li*, *S Lindgreen*, *JS Pedersen*, *A Albrechtsen*, *I Moltke*, *M Metspalu*, *E Metspalu*, *T Kivisild*, *R Gupta*, *M Bertalan*, *K Nielsen*, *MP Gilbert*, *Y Wang*, *M Raghavan*, *PF Campos*, *HM Kamp*, *AS Wilson*, *A Gledhill*, *S Tridico*, *M Bunce*, *ED Lorenzen*, *J Binladen*, *X Guo*, *J Zhao*, *X Zhang*, *H Zhang*, *Z Li*, *M Chen*, *L Orlando*, *K Kristiansen*, *M Bak*, *N Tommerup*, *C Bendixen*, *TL Pierre*, *B Gronnow*, *M Melgaard*, *C Andreasen*, *SA Fedorova*, *LP Osipova*, *TFG Higham*, *CB Ramsey*, *TvO Hansen*, *FC Nielsen*, **MH Crawford**, *S Brunal*, *T Sicheritz-Ponten*, *R Villems*, *R Nielsen*, *A Krogh*, *J Wang*, *E Willerslev* (2010) Ancient human genome sequence of an Extinct Paleo-Eskimo. *Nature* 11 February publication 463/11: 757-762.

Rey, D, *C Areces*, *C Parga-Lozano*, *P Gomez-Prieto*, **MH Crawford** and *A Arnaiz-Villena* (2010) HLA genes in populations of the Aleutian Islands. *Human Biology* 82(5-6): 737-744.

Rubicz R, *PE Melton*, *V Spitsyn*, *G Sun*, *R Deka*, and **MH Crawford** (2010) Genetic structure of Native Circumpolar populations based on autosomal, mitochondrial and Y-chromosome DNA markers. *American Journal of Physical Anthropology*. 143(1): 62-74.

*Rubicz, R**, *M Zlojutro*, *G Sun*, *V Spitsyn*, *R Deka*, *K Young* and **MH Crawford** (2010) Genetic Architecture of a Small, Recently Aggregated Aleut Population: Bering Island, Russia. *Human Biology* Oct-Dec. 82(5-6): 719-736.

West, D, *DH O'Rourke* and **MH Crawford** (2010) Introduction: Origins and Settlement of the Indigenous Populations of the Aleutian Archipelago. *Human Biology* Oct.-Dec. 82(5-6): 481-486.

*Won the 2010 Gabriel W. Lasker award for the best article published in *Human Biology*.

Presentations:

Baldi-Salas, N (2010) Understanding the genetic structure and migration of the Rama Indians from the Caribbean coast of Nicaragua. Presented at the International Conference on Human Migration (ICHM). Lawrence, KS

(Continued on page 9)

Beaty, KG (2010) Scottish identity in an American melting pot: Insights from mtDNA and Y-chromosome. Presented at the International Conference on Human Migration (ICHM). Lawrence, KS

Blangero J, Drigalenko E., Kent J, Zlojutro M, Melton PE, Diego VP, Dyer TD, Almasy LA, Göring HH. Detection of Rare Functional Variants in Extended Pedigrees. Genetic Analysis Workshop 17, Boston, MA.

Crawford MH, PE Melton, MJ Mosher, R. Rubicz, M. Zlojutro. (2010) Genetic Structure of Mennonite General Conference, Halderman and Old Colony Populations: Molecular Perspective. Presented at 79th annual meeting of the American Association of Physical Anthropologists, Albuquerque, New Mexico.

Crawford, MH. (2010) University of Tennessee-Knoxville lecture series, "Identity, Ancestry and Heritage: Multidisciplinary Perspectives, 37th Annual Visiting Lecture Series, September 27th and 28th, Michael Crawford gave two presentations: "Biological Aging in Mennonites of Kansas," and "Russian Contact and its Sequelae in the Aleutian Archipelago."

Crawford, MH. (2010) DNA, Genetics and History of Mankind, Banbury Center, Cold Springs Harbor November 28-30 "The sequelae of Russian Contact in the Aleutian Archipelago: Molecular Perspectives,"

Crawford, MH. (2010) Evolutionary Consequences of Migration". Presented at the International Conference on Human Migration (ICHM). Lawrence, KS.

Crawford, MH (2010) Introduction to Conference on Human Migration. Presented at the International Conference on Human Migration (ICHM). Lawrence, KS.

Crawford, MH, PE Melton, MJ Mosher and M Zlojutro (2010) Genetic Structure of Mennonite General Conference, Halderman and Old Colony Populations: Molecular Perspectives. Presented at 79th annual meeting of the American Association of Physical Anthropologists, Albuquerque, NM .

Graf, OM, J Mitchell, S Wilcox, G Livshits, MH Crawford (2010) Chuvash Origins: Evidence from mtDNA Markers. Presented at 79th annual meeting of the American Association of Physical Anthropologists, Albuquerque, NM

Graf, OM, Mark Zlojutro, Rohina Rubicz, and MH Crawford (2010) Surname origin and distribution in the Aleutian Archipelago: Evidence from Y-chromosome markers and historical accounts. Presented at the International Conference on Human Migration (ICHM). Lawrence, KS

Justice A, NF Baldi, C Phillips-Krawczak, J Gerst, P Williams, MH Crawford. (2010) Genotyping SNPs for Native American Y haplogroup assignment. Presented at the 60th annual American Society of Human Genetics meetings. Washington D.C.

Justice, A, B Dean, MH Crawford. (2010) Mestizo identity in the Lower Huallaga region of Peruvian Amazonia: molecular perspectives. Presented at 79th annual meeting of the American Association of Physical Anthropologists, Albuquerque, NM . Also presented as an invited presentation and recipient of the 3rd place award at the KU Graduate Research Competition.

Justice, A, B Dean, and MH Crawford. (2010) Molecular genetic consequences of colonization in the Peruvian Amazonia. Presented at the International Conference on Human Migration (ICHM). Lawrence, KS.

Melton PE, Curran JE, Carless M, Johnson MP, TD Dyer, JW MacCluer, Moses EK, Göring HH, J Blangero, L. Almasy. Genomic, transcriptomic, and pathway-based analysis of Carotid Intima-Media Thickness. International Genetic Epidemiology Society Boston, MA.

Melton, PE, **N Baldi-Salas, R Barrantes, MH Crawford** (2010) Microevolutionary Analysis of Y-Chromosome Variation in Five Native American Populations from Lower Central America. Presented at 79th annual meeting of the American Association of Physical Anthropologists, Albuquerque, New Mexico.

Melton PE, HHH Göring, TD Dyer, SA Cole, DL Rainwater, AG Comuzzie, MC Mahaney, JW MacCluer, J Blangero, L Almasy (2010) Genetic Effects on Longitudinal Changes in Risk Factors for Chronic Disease: the San Antonio Family Heart Study. Presented at the 35th annual meeting of the Human Biology Association, Albuquerque, NM.

Melton PE (2010) Mennonite Migrations: Demographic and Genetic Consequences. Presented at the International Conference on Human Migration (ICHM). Lawrence, KS

Melton PE, K. Haack, TD. Dyer, MC. Mahaney, JW. MacCluer, DR. Rainwater, J. Blangero, L. Almasy, SA. Cole. Bayesian analysis of hepatic lipase (*LIPC*) genetic variation suggests different variants influence HDL-C level and HDL particle size. American Society of Human Genetics, Washington, D.C.

Melton, PE, Kent Jr. JW, Dyer TD, Almasy LA, Blangero J. Genetic signal maximization using environmental regression. Genetic Analysis Workshop 17, Boston, MA.

Mosher, MJ, D Demarchi, R Rubicz, M Zlojutro, PE Melton, **MH Crawford.** (2010). Are sex-specific effects of dietary phyto-sterol intake on adiponectin levels an underlying factor explaining variation in TG/HDL ratio associated with APOE polymorphisms: The Kansas Nutrition Study. Presented at 79th annual meeting of the American Association of Physical Anthropologists, Albuquerque, NM.

Phillips-Krawczak, C, K Staiano and MH Crawford (2010) Migrations of Garifuna populations of St. Vincent, Belize and Dominica. Presented at the International Conference on Human Migration (ICHM). Lawrence, KS

Vang, J. (2010) Cultural Influences on the Migration of People: A Case Study of Two Hmong Populations in Asia. Presented at the International Conference on Human Migration (ICHM). Lawrence, KS

Young, K (2010) Secular trend in Post famine Ireland: Effects of emigration on those who remain. Presented at the International Conference on Human Migration (ICHM). Lawrence, KS

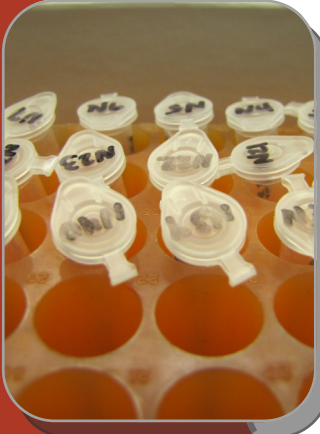
Young, K, AG Apraiz, R Devor, G Sun, R Deka, **MH Crawford.** The Basques in the genetic landscape of Europe. Presented at the 35th annual meeting of the Human Biology Association, NM.

Young, K, G Sullivan, C Hester, KA Greiner. Characteristics associated with comprehensive stool analysis findings in adult Integrative Medicine Patients [works in progress]. Presented at 2nd annual Sunflower Scholars Symposium, Kansas.

ICHM
AAPA
ASHG
SFAA
HBA

LBA Makeover

By Michael Crawford



A new laboratory is being built in Lippincott Hall with a projected completion date in February 2011. This will replace a small laboratory that is being converted into an elevator facility to make Lip-

pincott compliant with federal regulations. While we lose some space in this exchange, a customized laboratory is being constructed and the data storage files are being moved to another building on cam-

pus. Additionally, the offices will receive a makeover including built-in computer stations, designated desk space and a new break area for the LBA staff.

Look for research findings to be presented at the upcoming AAPA meetings in Minneapolis, MN.



LBA Potluck Recipe

Russian Borsch By Michael Crawford

Since the LBA began, it has included students and researchers from all over the world and of various backgrounds. Because of this, the LBA has had a long tradition of producing wonderful and memorable dishes at our annual potluck. We would like to share these recipes with you, and thought it only fitting that the first recipe be a Russian dish passed down from Dr. Crawford's mother.

Instructions:

Take 1 onion, 1 carrot & 1 parsnip, peel and char on an electric stove burner

In a large soup kettle, put meat and bone, charred vegetables, garlic and fill $\frac{3}{4}$ full with water. Add salt and pepper and bring to a boil. Reduce temperature and allow to simmer for 2 $\frac{1}{2}$ hours. Strain the broth. Remove any beef from the bones or the boiled stew meat and set aside.

Cut Julienne-style 4 large carrots, 3 large beets and chop one onion. Saute in a frying pan with 3-4 tablespoons of butter the chopped onion, add carrots and beets. Saute for about 10 minutes then sprinkle into the mixture 3 tablespoons of flour and mix well. Spoon the vegetable and flour mixture into the broth. Bring to a boil and then add the meat that had been set aside plus the cubed potatoes. Add the chopped cabbage and one small can of tomato sauce, salt, pepper and sugar to taste. Boil soup until the vegetables are tender. To enhance the red color of the borsch, chopped beet greens can be added. Serve borsch with a dollop of sour cream and chopped dill weed.

Optional: Invite a regimen of Russian Cossacks for dinner.

TAMARA NABOKOVA

Ingredients:

4 beef shanks or $\frac{1}{2}$ pound of beef stew meat
 1 beef bone
 2 yellow onions
 5 carrots
 1 parsnip
 1 celery stalk
 4 tablespoons of salted butter
 3 large beets (peeled & Julienned)
 2 potatoes (peeled and cut into small cubes)
 $\frac{1}{2}$ cabbage (chopped)
 1 small can of tomato sauce
 Sour cream
 Fresh chopped dill weed
 3 tablespoons of flour
 Water 5-6 cups (depending on size of pot available)
 Salt & pepper
 2 cloves of Garlic

Lab of Biological Anthropology

KU LBA Bi-Annual Newsletter

University of Kansas
 Department of Anthropology
 Fraser 622
 1415 Jayhawk Blvd.
 Lawrence, Kansas 66045.
 Phone: (785)864-4172
 Fax: (785)864-5224
 E-mail: lba_dl@mail.ku.edu

“No drones will be tolerated in this hive of industry.”

The LBA was founded in 1975 as a research center of the Graduate School and the Research Sector of the University of Kansas. Since its inception, the LBA has focused on supporting graduate students in Anthropology and Genetics. The LBA has hosted the Midwest Twin Register, the Editorial Office of the journal, *Human Biology*, and has resulted in more than 300 publications, 25 PhDs and 22 MAs. The LBA Newsletter was started as a means to inform its members, affiliates, and scientific community of its on-going research results and objectives.



What To Expect

By Anne Justice

There are several on-going projects in the LBA involving all of the current members and many recent members of the LBA. The LBA continues its focus on the genetic history and variation of the Americas looking at sex specific markers from the Maya of Guatemala, Island Caribs from Dominica, Garifuna from St. Vincent Island and Belize, Rama from Nicaragua, and Amazonian populations from lowland Peru. These samples are being used to understand the peopling events for Central and South America as well as

changes have had on the biology of the inhabitants of these areas. LBA staff working in the Americas include Anne Justice, Stephen Johnson, Chris Krawczak, Kristine Beaty, and Norberto Baldi-Salas.

Anne Justice, Chris Krawczak, and Norberto Baldi-Salas have also been working with Evogen to design probes for Y-SNP typing. Anne Jus-

to help understand the impact recent demographic

changes have had on the biology of the inhabitants of these areas. LBA staff working in the Americas include Anne Justice, Stephen Johnson, Chris Krawczak, Kristine Beaty, and Norberto Baldi-Salas. Anne Justice and James Timbuak are working with Evogen to test the validity of a novel DNA extraction method and optimize this method for human buccal and sputum samples. Results from investigations on the Maya will be presented at the upcoming AAPA meetings, and KU's Graduate Student Research Competition.

Orion M. Graf is investigating the origin of the Chuvash, a people living approximately 400 miles east of Moscow in the Russian Republic of Chuvashia, using mtDNA haplotyping.



Market day in Jocotan, Guatemala, where Anne conducted her recent fieldwork along with Emilia Barbose from the Spanish and Portuguese Department.