

understanding

developing

promoting

a healthy lifestyle

Department of Health and Human Performance  
2006 Annual Report



*HHP is going places . . .*

**UNIVERSITY OF HOUSTON**

Health & Human   
*Performance*  
*understanding, developing and promoting a healthy lifestyle*

University of Houston  
College of Education



COLLABORATION  
FOR LEARNING & LEADING

## The Department of Health and Human Performance College of Education–University of Houston

The 2005–2006 Academic year was another great one for the Department of Health and Human Performance (HHP). Building upon the successes of the previous years, the department continued to make significant forward strides in the areas of research, academics, and service. This progress was reflected in 17 peer reviewed research articles, 27 scientific presentations, curriculum revisions, personnel increases, and continued improvement in the quality of graduate students. The department also received \$1,231,070 in new funding to support research and other projects. This amount is in addition to the 5 million dollar funding base already in place.

### Academics

The most exciting academic news to report is that our doctoral program in Kinesiology was ranked 15<sup>th</sup> best in the nation by the American Academy of Kinesiology and Physical Education. Our program is currently ranked above programs from institutions such as the University of Wisconsin–Madison, Michigan State, the University of Michigan, and Ohio State; all traditional leaders in Kinesiology. Needless to say, we are proud of our doctoral degree and are continually seeking to improve the quality of education that our students receive. Our Graduate Research Degrees committee, which administers the doctoral degree, agreed to institute a *qualifying* examination that will be administered to new doctoral students following the completion of their first year in the program. This examination will consist of exercises ranging from a number of cross-disciplinary readings to students writing about their experience, and is designed to assess their ability to display critical thinking and writing skills. This educational exercise will provide the faculty with additional insights regarding our students' ability to transition from users of knowledge to generators of new knowledge— a standard we expect of all of our doctoral program graduates.

The most significant development in our undergraduate curriculum was the placing of our preparation for physical education teachers in moratorium. We will no longer be accepting new students into our *teacher preparation* program. That program has been replaced with a new curriculum option designed to prepare *wellness* educators. This new degree option takes full advantage of the unique blend of specialists on our faculty—experts in the areas of sports administration, obesity studies, health promotion, nutrition, and traditional kinesiology fields—and enables us to offer a course of study that addresses the needs of an ever growing population that continues to adopt sedentary behaviors. This degree option is directly in line with current societal needs and consistent with state guidelines for *wellness* programs for the youth of Texas. Our new degree option is the first of its kind in Texas and, to our knowledge, the first of its kind in the entire nation!

Our new KIN 1304: Public Health Issues in Physical Activity and Obesity was approved as a social science university core course and has 300 students enrolled in the Fall 2006 semester.

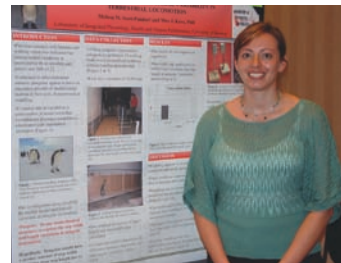
Our online Masters of Education degree benefited from an active internet advertising campaign and improved operating procedures. We expect to graduate our first fully *online* students this coming spring.

In June two groups of HHP faculty were awarded UH sponsored Faculty Development Initiative Program (FDIP) grants totaling \$49,000.00 to further integrate the use of educational technology into a variety of our courses.

## Research

This past year saw another increase of \$956,484.00 in funding for research. Combined with recent funding increases in previous years we now have research funding commitments over 6 million dollars. This funding was obtained from a variety of state, local and federal agencies, including the National Institutes of Health (NIH), Texas Department of State Health Services, Wyle Life Sciences, (a NASA Life Sciences contractor), Texas Learning and Computation Center, and the University of Houston. Our TIGER study, [<http://www.uh.edu/tigerstudy/>] focusing the relationship between obesity, genetics, and exercise is in its third year of operation. The NIH funded UNDO projects [<http://hhp.uh.edu/undo/>] designed to investigate the influence of the environment on obesity among minority women was in full swing this year with several interrelated projects being conducted in both Houston and Austin. The Health Network for Evaluation and Training Systems [<http://www.uh.edu/hnets/index.html>] that provides research, evaluation, training and technical assistance to schools, communities and healthcare settings to meet their health goals continues to be very active and received much positive publicity this past summer. Dr. Max Kurz) became known around the world for his investigations of locomotion patterns of the King Penguins who live at Moody Gardens in Galveston, Texas. [<http://www.hhp.uh.edu/faculty/Kurz/research/press.html>]

An **HHP Student Research Day** was held in October and was attended by over 350 undergraduate students. We are very proud of the research-related work our graduate students are involved in.



Possibly the most significant research-related event this past year was held on Monday, April 3<sup>rd</sup> when HHP hosted a symposium on the “**Obesity Epidemic**”. Internationally known professors Drs. John Foreyt and Rod Dishman were the keynote speakers and several HHP faculty members also presented during the day long symposium. The event was well attended by students, UH faculty

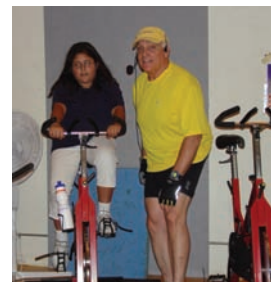


and staff, and several members of the Houston community. A buffet lunch of healthy food was served to those in attendance.

[<http://hhp.uh.edu/Cuevents/News%201%20-%20The%20Daily%20Cougar%20Online.htm>] and [<http://hhp.uh.edu/Cuevents/Sympimages.html>]



In April Dr. Norma Olvera’s BOUNCE-Behavior Opportunities Uniting Nutrition, Counseling and Exercise program was recognized by the Texas Public Health Association as a 2006 Nutrition and Physical Activity Best Practices program [<http://bounce.uh.edu/>]. The one-week summer program uses salsa dancing, kick boxing, counseling and nutritious food buffets, the program works with Latina middle school girls and their mothers to determine if there are cultural factors that contribute to obesity.



## Special Events

In June Dr. Rebecca Lee and her UNDO research team hosted a luncheon for its community partners. The guest of honor at this event was **United States representative Shelia Jackson-Lee** who gave a rousing speech concerning the need to investigate factors that contribute to our country's obesity epidemic.



In May, **Johnson Space Center's Director Mike Coats** and other NASA officials concerned with Education and Outreach visited the Laboratory of Integrated Physiology (The LIP). They were provided with a thorough briefing of the experiments and technology development that occurs in the LIP.

In May the **College of Education** hosted its upscale S.T.A.R.s fund raising banquet which was a rousing success.



### STARS:

#### ***Service Excellence***

appreciating faculty and alumni service to the college and community

#### ***Teaching Excellence***

highlighting student portfolios, outcomes and achievements

#### ***Assistance Excellence***

recognizing friends, supporters and funders

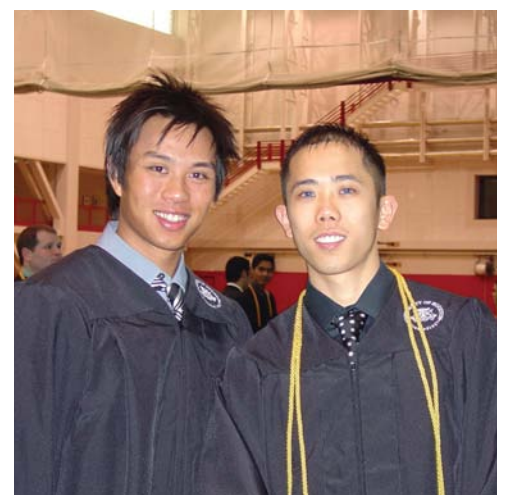
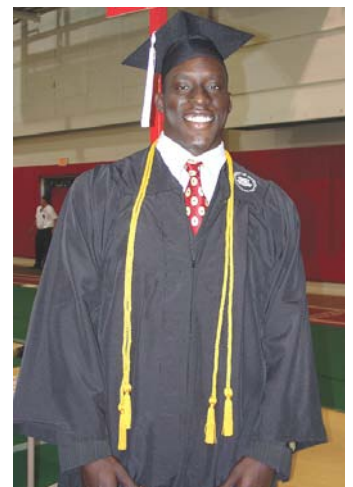
#### ***Research and Scholarship Excellence***



**Dr. Andrew Abercromby** received the HHP Distinguished Alumni Award in front of the pack house which included his mother and other relatives from Scotland.

## Graduation

The University of Houston now holds graduation events in both December and May. Once again, graduation was a well attended and happy affair for the graduates, their families, friends and faculty.





## Degrees Conferred

B.S. in Health: 55

2 Magna Cum Laude  
8 Cum Laude

B.S. in Human Nutrition and Foods: 39

2 Summa Cum Laude  
6 Magna Cum Laude  
5 Cum Laude

B.S. in Kinesiology: Exercise Science: 52

3 Summa Cum Laude  
3 Magna Cum Laude  
7 Cum Laude

B.S. in Kinesiology, Movement Sport Studies: 24

3 Summa Cum Laude  
9 Magna Cum Laude  
7 Cum Laude

B.S. in Kinesiology, Sport Administration: 26

1 Magna Cum Laude

Ed.D. in Allied Health Education and Administration: 1

M.Ed. in Allied Health Education and Administration: 2

M.Ed. in Physical Education: 13

M.Ed. in Health Education: 5

M.S. in Exercise Science: 3

Ph.D. in Kinesiology: 2

## Personnel



*Dr. Max Kurz*

This past year we welcomed our new motor control and biomechanics professor, **Dr. Max Kurz** from the University of Nebraska-Omaha and **Dr. Shreela Sharma** an epidemiologist from The University of Texas Health Science Center. Both professors hit the ground running and have had very successful first years as HHP faculty members.

During the summer **Drs. Paula Rhode**, a clinical psychologist with expertise in obesity studies and **Adam Thrasher**, a bioengineer with expertise in the rehabilitation of spinal cord injured individuals accepted assistant professor positions beginning in the Fall of 2006. Additionally, **Ms. Laura Moore** accepted a faculty position designed to teach a variety of our nutrition courses. Ms. Moore has over 25 years of experience in the food and hospitality industry. We look forward to working with all three of our new professors in the coming years.



*Dr. Shreela Sharma*

In January **Ms. Randi Weintraub** joined us as the department's first Department Business Administrator. Randi came to us with a wealth of knowledge, quickly learned the UH financial system and is a tremendous addition to our administrative team.



*Dr. Paula Rhode*

After 23 years of service to the University of Houston and HHP, **Professor Dale Pease** decided to retire beginning in Fall 2006. Dr. Pease, a former HHP department chair for 13 years was the most recent recipient of the College of Education's Distinguish Career (Service) award. The university and HHP will sorely miss Dr. Pease's many assets but we wish him the best of luck in the future.

**Andrew Rorschach**, nutrition specialist, left the faculty to take another position. **Andrew Rorschach**, nutrition specialist, left the faculty to take another position.



*Dr. Adam Thrasher*



*Laura Moore, RD*



*Randi Weintraub, MA*



*Dr. Dale Pease*



This past summer we added two babies to the faculty when **Dr. Shreela Sharma** gave birth to her son Suvir, and **Dr. Dan Martinez's** wife gave birth to their son Joaquin. A big congratulations to Drs. Sharma and Martinez.

We are looking forward to **Dr. Jill Bush's** baby arriving in October.

Unfortunately, several faculty and staff members lost loved ones this past year. Our thoughts and prayers continue to go out to them.

### Improvements to the Garrison/Melcher Complex

The improvements to the Garrison/Melcher complex continued throughout the year. The most significant change was that the Garrison *showers* were converted into first-class project space that is currently used by 16 employees. The new student lounge has been developed and a plaque commemorating the 700 students who signed a petition requesting a lounge has been mounted to the wall. The security of the Garrison/Melcher complex has been enhanced with the addition of several more security cameras. Motion activated doors have been installed in the Garrison building to improve access for our disabled population. Garrison room 204 has been completely refurbished to accommodate research activities and graduate teaching and research fellow offices.

*The following is a list of last year's productivity generated by the HHP faculty, students and alumni.*

*We are proud of our accomplishments in the past year!*

### Peer Reviewed Research Articles

**Kurz, M.J.**, Stergiou, N. Original investigation correlated joint fluctuations can influence the selection of steady state gait patterns in the elderly. *Gait and Posture*, January 13, 2006.

Miller, D.J., Stergiou, N, **Kurz M.J.** An improved surrogate method for detecting the presence of chaos in gait. *Journal of Biomechanics*, December 1, 2005.

Matalon, R., Surendran, S., McDonald, J.D., Okorodudu, A.O., Tying, S.K., **Michals-Matalon, K.**, Harris, P. Abnormal Expression of Genes Associated with Development and Inflammation in the Heart of Mouse Maternal Phenylketonuria Offspring. *Int. J. Immunopathol. Pharmacol.* 18:557-565, 2005.

**Olvera, N.,** Suminski, R., Power, T. G. (2005). Intergenerational perceptions of body size, body ideal, and attractiveness in Mexican Americans: Role of BMI, gender, and acculturation. *Obesity Research*, 13, 11, 1970-1979.

**Jackson, A.S.,** (2006) The evolution and validity of health-related fitness. *Quest* .58:160-175.

Jurca, R., **Jackson, A.S.,** LaMonte, M.J., Morrow, J.R., Blair, S.N., Wareham, N.J., Haskell, W.L., VanMechelen, W., Church, T.S., Jakicic, J.M., Laukkanen, R. (2005). Assessing cardiorespiratory fitness without performing exercise testing. *American Journal of Preventive Medicine*. 29(3): 185-193.

Batterham AM, **Jackson A.S.,** (2005) Allometric cascade model and metabolic rate - Response. *Respiratory Physiology and Neurobiology*. 146 (1): 3-4 .

**Lee R.E.,** Booth KM, **Reese-Smith J.** Obesogenic influences in public housing: A mixed method analysis. *Am J Health Prom* 2006;20:282-90.

**McFarlin B.K.,** Flynn MG, Campbell WG, Craig BC, Robinson JP, Stewart LK, Timmerman KL, & Coen PM. Physical Activity Status, but not Age, influences Inflammatory Biomarkers and Toll-like Receptor 4. *J Gerontol A Biol Sci Med Sci*. 2006; 61(4) 388-393.

Matalon, R., **Michals-Matalon, K.** Koch, R., Grady, J., Tying, S., Stevens, R.C. Response of Patients with Phenylketonuria in the US to tetrahydrobiopterin. *Molec. Gene. Metab.* 86:S17-21, 2005.

**Gingiss, P., Boerm, M.,** Roberts-Gray, C. (2006). Follow-up comparisons of intervention and comparison schools in a state tobacco prevention and control initiative. *Journal of School Health*. 76(3):1-6.

Matalon, R., **Michals-Matalon, K.** Treatment of phenylketonuria variants: US recommendations. In PKU and BH4: Advances in Phenylketonuria and Tetrahydrobiopterin. Ed. Blau, N. SPS Publications, Heilbronn, Germany. 2006; pp. 201-219

**Michals-Matalon, K.** Dietary recommendations in the USA. In PKU and BH4: Advances in Phenylketonuria and Tetrahydrobiopterin. Ed. Blau, N. SPS Publications, Heilbronn, Germany. 2006; pp. 220-231.

**Gingiss, P.M.,** Roberts-Gray, C., Boerm, M. (2006). Bridge-It: A System for Predicting Implementation Fidelity for School-Based Tobacco Prevention Programs. *Prevention Science*. 7(2), 197-207.

**Gingiss, P.,** Boerm, M., Roberts-Gray, C. (2006). Follow-up comparisons of intervention and comparison schools in a state tobacco prevention and control initiative. *Journal of School Health*. 76(3):1-6.

**Pease, D.G.,** Rhea, D., & Zhang, J.J. (2006). Coaches and athletes' assessment of leadership behaviors in high school female volleyball players. *International Journal of Sport Management*, 7(3), 1-17.

**McFarlin B.K.,** Flynn MG, Mahon AK, Stewart LK, Timmerman KL, Lyle RM, Campbell WW. Energy restriction with different protein quantities and source: implications for innate immunity. *Obesity* 2006 Jul;14(7):1211-8.

## Book Chapters

**Michals-Matalon, K.** and Matalon, R. Genetic Diseases and Errors of Metabolism. In Nutritional and Clinical Management of Chronic Conditions and Diseases. Ed. F. Bonner, CRC Press, Boca Raton, Fl. pp. 167-179, 2006.

**Jackson, A.S.** (2006). Chapter 16 Preemployment physical testing. In T.M. Wood & W. Zhu (Eds.). *Measurement Theory and Practice in Kinesiology*. pp. 315-345. Champaign, IL:Human Kinetics.

**Clarke, M.S.F.**, Feedback, D.L. and Vanderburg, C.R. (2006). Impact-mediated loading of large macromolecules into adherent mammalian cells *In. Cell Biology: A Laboratory Handbook*. ed. J.E. Celis (3rd Edition), Academic Press. pp5-11.

**Clarke, M. S. F.**, Jones, J.A. and Feedback, D.L. (2006) Syringe Loading: a method for assessing plasma membrane function as a reflection of the mechanically-induced membrane wound response. In. *Cell Biology: A Laboratory Handbook*. ed. J.E. Celis (3rd Edition), Academic Press. Pp 233-240.

## New Funding

**Layne, C.S.** Enhanced Development of the Office of Scientific Data Review and Dissemination, Phase III, Wyle Life Sciences: (Task Orders 6 and 7 – direct costs: \$534,223.00, indirect: \$259,583.00).

**Olvera, N.** (PI), Faye Hall Jackson (Co-PI). Hispanic mothers and Daughters: Developing healthy food and menu choices. Hilton Fellowship Research Grant (\$7,500, February 2006 – December 2006).

**Gingiss, P.M.** Conversion of the UH Cancer Courses to Web-Based Technologies including Pod-Casts. Faculty Development Initiative Program –A, (\$4,000), June, 2006.

**Layne, C.S.** Enhanced Development of the Office of Scientific Data Review and Dissemination, Task Order 8, Wyle Life Sciences, (3 years, direct costs : \$241,238, IDC: \$118,207), July, 2006.

**Layne, C.S.** Enhanced Development of the Office of Scientific Data Review and Dissemination, Task Order 9, Wyle Life Sciences, (3 years, direct: \$31,850, IDC: \$15,604), August, 2006.

**McFarlin B, Layne C, Kurz M, and Martinez D.** Transition of existing exercise sciences classes to hybrid format. Faculty Development Initiative Program-B, (\$23,250) – June, 2006.

**Pearson, D.** Co-I James Conyers (AAS). Technology Grant: Enhance and Augment African American Oral History Field Research Project – (\$24,865.00), June, 2006).

**Kurz, M.J.** Modeling Human Chaotic Gait Patterns. Granter: Texas Learning and Computation Center, (\$53,258) August 2006-August 2007.

**Rorschach, A., Bode, S., Sharman, S.** Human Nutrition and Foods Electronic Materials- Faculty Development Initiative Program-B, (\$25,000) – June, 2006.

**Kurz, M.J.** received funding to attend at the National Science Foundation's Office of Polar Programs *Antarctic New Investigators 2006 Workshop*, August, 2006.

**Olvera, N.** (Principal Investigator) BOUNCE Lite; A Summer Day Camp for Hispanic Girls. Episcopal Health Charities, Greater Houston Nutrition Coalition, Harris 4-H Fund, College of Education (\$6,500), Summer 2006.

**Olvera, N.** (Principal Investigator) BOUNCE Lite; A Summer Day Camp for Hispanic Girls. Episcopal Health Charities, Greater Houston Nutrition Coalition, College of Education, University of Houston (\$3,600), Summer 2005.

## Submitted Grant Proposals

**Kurz M.J.** Space Suit Locomotion and Load Carrying in a Micro-gravity Environment, Institute for Space Systems Operations, \$16,000 (submitted), October, 2005.

**Kurz, M.J.** Chaos in Gait. National Science Foundation Career Award program. (submitted: 5 years - direct : \$427,686, IDC: \$209,565), July 15<sup>th</sup> 2006.

**Sharma, S.,** CO-PI – Hoelscher, D. Testing the efficacy of an obesity prevention program in elementary school children. National Institutes of Health (NIH) R21 (submitted – direct: \$275,000), July 1, 2006.

**Martinez, D.A.** (PI) **McFarlin, B.K** (Co-I). The Impact of Low Level Laser Irradiation on Extracellular Matrix Regeneration and Immune Function in Ligament Fibroblasts During Wound Repair. NFL Charities Medical Research Grant Application (submitted: \$122,145.00, 1 year), May, 2006.

**McFarlin, B.K.** Senior Mentors: Jackson AS, Bray MS, Clarke MSF, Martinez DA. TLR4: a mechanism linking obesity and chronic inflammation. National Science Foundation Career Award program. (submitted: 5 years, direct: \$1,000,000, IDC: \$490,000), July 15<sup>th</sup> 2006.

**McFarlin, B.K. (PI), Jackson AS** (Co-I), Bray MS, **Clarke MSF, Martinez DA.** Determining a link between obesity, physical activity status, and chronic inflammation: a role of TLR4? National American Heart Association Scientist Development Award. (submitted: 2 years – direct: \$110,500, IDC: \$19,500), July 14<sup>th</sup> 2006.

**McFarlin B.K.** (PI), **Jackson AS** (Co-I), and Bray MS (Co-I). “Does Obesity and Weight Loss alter the Relationship between Chronic Inflammation and Cardiovascular Disease?” Texas Affiliate of the American Heart Association. – submitted: \$130,000 (10% IDC), March, 2006.

**McFarlin B.K.** (PI), **Jackson AS** (Co-I), **Clarke MSF** (Co-I), and Bray MS (Co-I). “TLR4 Signaling: A Link between Obesity and Chronic Inflammation.” NIA/NIH R03, submitted: \$150,000 (Full IDC), March, 2006.

**McFarlin B.K.** (PI). The Effect of Pomegranate Conjugated Linolenic Acid Supplementation During an Energy-Restricted Diet on Fat Loss and Chronic Inflammation in Previously Obese Mice. POM Wonderful, LLC – (submitted: 1 year - Direct: \$94,002, IDC: \$23,501-25%)

**McFarlin B.K.** (PI), **Martinez DA** (Co-I), **Clarke MSF** (Co-I), **Hutchison AT** (RA). Generation of 3D Adipose Tissue Constructs to Study the Effect of Adipocyte Conditioned Media on Monocyte TLR4 Signaling and Inflammatory Cytokine Production. Faculty Research Grant Award. COE: \$4,000.

Scheett TP (PI, College of Charleston), Volek J (Co-I, University of Connecticut, PI UConn Subcontract), and **McFarlin BK** (Co-I, PI UH Subcontract). “The Effect of High-Protein, Calorie-Restricted Diet on Whole Body Inflammation” Funded: \$85,000 (UH Subcontract \$13,510.00). Full IDC Award to UH. Funding Agency: Carb Solutions.

## Presentations

Matalon, R. **Michals-Matalon, K.** Knock-out Mouse for Canavan Disease. International Conference on N-AcetylAspartic Acid. NIH Bethesda, MD, 2005.

**Gingiss, P.M.** & Boerm, M. (2005). Health insurance coverage for tobacco dependence: Texas survey of managed care organizations. Proceedings and Presentation of the Annual Meeting of the American Public Health Association, Philadelphia, PA. December, 2005.

DeLellis B, **Gingiss P.** Statewide Assessment of Community Capacity and Infrastructure. Presentation to the Chronic Disease Division, Texas Department of State Health Services. Austin, TX. January 11, 2006.

**Olvera, N.** The Role of Gender, acculturation, and BMI in perceived body size in Mexican American Families. Symposium conducted at the biannual meeting of the Society of Research in Child Development, Atlanta, GA. 2005.

**Rorschach, A.** "Hypoalbuminemia in Stage 5 Kidney Disease. Nephrology Nurses Association annual meeting, Houston, TX. February 4, 2005.

Booth KM, **Lee RE**, Regan GR, Reese-Smith J, Howard HH, Hou Q, Haddock CK, Ahluwalia JS, Poston WSC. Is there a relationship between the built environment and obesity for low income, African American public housing residents? North American Association for the Study of Obesity (NAASO), Vancouver, Canada, November 2005.

**Jackson, A.S.**, Ellis, K., Sailors, M., **McFarlin, B.K.**, Turpin, I., & Bray, M. (2005). The generalizability of the Jackson-Pollock skinfold equations for Black and Hispanic men and women: The TIGER study. North American Association for the Study of Obesity (NAASO), Vancouver, Canada, November 2005.

Bray, M., Ellis, K., Sailors, M., **McFarlin, B.K.**, Turpin, I., & **Jackson, A.S.** (2005). Black, Hispanic and White differences in the relation between BMI and DXA percent fat of men and women: The TIGER study. North American Association for the Study of Obesity (NAASO), Vancouver, Canada, November 2005.

**McFarlin B.K.**, Flynn MG, Campbell WW, Craig BA, Robinson JP, Stewart LK, Timmerman KL, and Coen P. Physical Activity Status, but not Age, Influences Inflammatory Cytokine Production and Toll-like Receptor 4. American College of Sports Medicine (ACSM), Denver CO May 2006.

**McFarlin BK, Jackson AS**, Ellis KJ, and Bray MS. Cross-Validation of Lipometer Estimates of Body Composition: The Effect of Gender and Skin Color. North American Association for the Study of Obesity (NAASO), Boston, Massachusetts, October 2006.

**Sharma, S.**, Hoelscher, D., Kelder, S., Diamond, P. "Psychosocial and environmental predictors of calcium intake, physical activity and bone health in adolescent girls". American Public Health Association (APHA) conference, Philadelphia, December 2005.

Booth KM, **Lee RE**, Regan GR, Reese-Smith J, Howard HH, Hou Q, Haddock CK, Ahluwalia JS, Poston, WSC. Is there a relationship between the built environment and obesity for low income, African American public housing residents? Six International Congress on Coronary Artery Disease. Istanbul, Turkey. November, 2005.

**Lee RE**, Carroll SL, Li C, Strother ML & Huang TT-K. How much physical activity is enough to stem metabolic syndrome? *Annals of Behavioral Medicine*, 2006;31: S056. Annual Meeting of the Society of Behavioral Medicine, San Francisco, March, 2006.

**Lee RE, Baxter M, Regan G, Reese-Smith J, Booth KM, Howard HH.** Urban restaurants differ by neighborhood socioeconomic factors. *Annals of Behavioral Medicine*, 2006;31: S056. Annual Meeting of the Society of Behavioral Medicine, San Francisco, March, 2006.

**James, E. and Layne, C.S.** 'The Relationship between Structural Complexity, Variability and Focus of Attention in Rhythmic Bimanual Movements', UH Sigma Xi Student Research Day, Houston, TX, April, 2006.

**Alastuey, L.** "School health promotion." Houston's Teacher Institute, University of Houston. April, 2006.

**Alastuey, L.** "EC-4 generalist workshop: Health and physical education section." University of Houston, March, 2006.

Matalon, R., **Michals-Matalon, K.** Bhatia, G. Response of phenylketonuria to tetrahydrobiopterin. Trans-disciplinary International Conference on Aromatic Amino Acids and Related Substances: Chemistry, Biology, Medicine and Applications. July 19-21, Vancouver, Canada.

Roberts-Gray, C. & **Gingiss, P.M.** Predicting and measuring implementation success of school programs to promote health and prevent disease. Proceedings of the 14th Annual Meeting of the Society for Prevention Research, San Antonio, TX. May, 2006.

**Martinez, D.A.** Andrew Lust, Arthur C. Vailas, Richard E. Grindeland, and Ray Vanderby, Jr. Ligament healing during hindlimb unloading: Exogenous IGF-1 improves the biomechanical and biochemical properties of the rodent medial collateral ligament. Paper presented at the 2006 American College of Sports Medicine meeting, Denver, CO. Medicine & Science in Sports and Exercise. 38(5) 72, 2006.

Kwak, H.B., J.H. Kim, **D.A. Martinez**, and J.M. Lawler. Alterations in p-HSP25 and redox signaling in the rat soleus due to prolonged hindlimb unloading followed by reloading. Paper presented at the 2006 American College of Sports Medicine meeting, Denver, CO. Medicine & Science in Sports and Exercise. 38(5) S548, 2006.

**Lee, J., Smith, D.** and Colwell, B. Transactional states in adolescent smokers: A reanalysis of data. Reversal Theory conference. Shreveport, LA, July, 2006.

**Jevas, S. and Pease, D.G.** Burnout in division 4A and 5A high school athletic trainers from a RT perspective. Reversal Theory conference. Shreveport, LA, July, 2006.

**Culpepper, D. and Pease, D.G.** Mood state depression and RT investigated using EEG. Reversal Theory conference. Shreveport, LA, July, 2006.

**Sharma, S., Hoelscher, D. and Kelder, S.** Psychosocial and environmental predictors of calcium intake, physical activity and bone health in adolescent girls. International Society of Behavioral Nutrition and Physical Activity (ISBNPA) July, 2006.

**Sharma, S., Bush, J.A., Lorino, A.J.** Dietary habits and their relationship with risk factors for CVD in an urban university marching band. American College of Sports Medicine (ACSM) conference, April 2006.

**Bush, J.A., Lorino, A.J., Sharma, S., Banda, J., Knoblauch, M., Hallmark, J. Abuamer, D. and Blog, G.S.** Characteristics and Correlates of Cardiovascular Health in an Urban University Marching Band. American College of Sports Medicine (ACSM) conference, April 2006.

**Kurz, M.J.** Insights on the neural control of chaotic gait variability in the elderly, World Congress on Biomechanics, Munich, Germany, July-August, 2006.

**Kurz M.J.** and Stergiou, N. Do horizontal forces influence the structure of chaotic gait patterns? North American Society for the Psychology of Sport and Physical Activity, Denver, Colorado, June, 2006.

**Kurz, M.J.** Mass influences the cascade of bifurcations and chaotic structure of a passive dynamic walking model's gait. North American Society for the Psychology of Sport and Physical Activity, Denver, Colorado, June, 2006.

## **Achievements and Milestones**

**McFarlin, B.** was awarded the Outstanding Teacher of the Year for the 2005-2006 academic year by the College of Education.

**McFarlin, B.K.** recognized as a Health Disparity/Obesity Researcher in the National Institute of Health Student Loan Repayment Program (2006-2008).

**Sharma, S.** received first prize for best poster presentation - University of Texas, Research Day 2005. "Psychosocial and environmental predictors of calcium intake, physical activity and bone health in adolescent girls".

**Bode, S.** was elected as a Didactic Program Representative to the Commission on Accreditation in Dietetic Education (CADE), January, 2006.

**Martinez, D. Primary Scientific Reviewer** for Grants from the U.S. Civilian Research and Development Foundation (CRDF) and International Science and Technology Center (ISTC) and the companion organization, The Science and Technology Center in Ukraine (STCU) under the direction of the U.S. Department of State, November, 2005.

**Olvera, N.** elected Selection Committee Member for the prestigious 2006 Hispanic Heritage Youth Award, April 2006.

**Sharma S.** was the recipient of the Travel Award from the Committee of Status of Women from the University of Texas, School of Public Health, December, 2005.

**Lee, R.E.** Named 2006 National Center on Minority Health and Health Disparities *Health Disparities Scholar*.

**Lee, R.E.** City of Houston, Mayor's Wellness Council, Nominated to serve as Policy Subcommittee Co-Chair, January, 2006.

**Lee, R.E.** name University of Houston, College of Education, Research Excellence Award Recipient, December, 2005.

**Lee, R.E.** National Institutes of Health Community Level Health Promotion Study Section *Ad Hoc Reviewer* - February 9-10, 2006.

**Clarke, M.S.F.** New Invention: Method and apparatus for a three dimensional tissue culture model of bone - Provisional Patent filed 2/06, status pending).

**Bush, J.A.** Attended ACSM Exercise Specialist Workshop in Chicago, IL for certification as Exercise Specialist in October 2005.

**Martinez, D.** Inducted into Omicron Delta Kappa—ODK (national leadership honor fraternity for leadership), April 24, 2006.

**Korman, S.** was the recipient of the Outstanding Dance Educator award by the Texas Association of Health, Physical Education, Recreation and Dance (TAPHERD).

**Rorschach, A.** Inducted into Omicron Delta Kappa—ODK (national leadership honor fraternity for leadership), April 24, 2006.

**Bloom, J.** Elected as chair of the UH Undergraduate Studies Council, April 2006.

**Lee, R.E.** Nominated as charter member of the NIH Community Level Health Promotion Study Section.

**Lee, R.E.** Invited Lecture: HHP Majors Society Keynote Speaker - HHP Obesity Mini Symposium, *The Fat of the Land: Our Obesogenic Neighborhoods*, April, 2006.

**Lee, R.E.** Invited Lecture: University of Hawaii at Manoa - *The Fat of the Land: Our Obesogenic Environment*, May 2006.

**Sharma, S.** Invited Lecture: Student Nutrition Association Keynote Speaker HHP Obesity Mini Symposium - *Combating childhood obesity - Alternative strategies to sedentary behaviors in children and adolescents*, April, 2006.

**Gingiss, P.M.** Review Panel Member: National Institutes of Health: Small Business Innovation Research Grant Program. Risk Prevention and Health Behavior Study Section. Washington, D.C., March 3, 2006.

**Martinez, D. NIH Study Section Member:** Special Emphasis Panel/Scientific Review Group, Physiology and Pathophysiology of Organ Systems, 2006/01 Council ZRG1 F10-H 20, Washington, D.C. 3/12/06-3/14/06.

**Martinez, D.** Ad hoc Grant Review for **The Scientific Committee of the Association Française contre les Myopathies (AFM)**, entitled “Role of connective tissue growth factor “CTGF” in the development of fibrosis in dystrophic muscles.” AFM Institut de Myologie Bâtiment Babinski Groupe Hospitalier Pitié-Salpêtrière 47-83, bd de l’Hôpital 75013 Paris, France, May 1, 2006

**Martinez, D. A.** Chair, Featured Science Session entitled, “Adaptations of Ligament and Tendon During Overload, Injury and Repair”, at the 53rd Annual ACSM National Meeting, Denver, Colorado, May 31-June 3rd, 2006.

**Martinez, D.A.** *American Institute of Biological Sciences*, Scientific Peer Advisory and Review Panel for the US Army Medical Research and Material Command (USAMRMC) Grants, 6/16/2006.

**Alastuey, L.** Served on the Texas Education Agency’s Division of Educator Standards to review draft test items for the Texas Examinations of Educator Standards (TExES) Health EC-12 test.

**Bloom, J.** conducted Texas College SuperCyclist workshops at Houston-Tillotson University and Texas State. July 21, 2006.

**Kurz, M.J.** was elected as the Membership Chair for the Executive Board of the American Society of Biomechanics, July, 2006.



## Publicity

**Kurz, M.J.** Received significant publicity from multiple news, television, radio and internet sites: <http://www.hhp.uh.edu/faculty/Kurz/research/press.html>

**Lee, R.** and **Olvera, N** were both featured in the UH President's 2005 annual report.

**Layne, C.S.** Interviewed by Channel 13 TV in Houston concerning "foot bath technology" during a Consumer Alert segment, November, 2005.

**Lee, R.E.** Article in the Daily Cougar on "10 Tips to Avoid Weight Gain during the Holidays", December, 2005.

**Lee, R.E.** Televised interview on *The Black Voice* on Fox 26 on "10 Tips to Avoid Weight Gain during the Holidays", December, 2005.

**Pearson, D. W.** (January 23, 2006). "First we pray, then we ride" (Newspaper Interview). Sacramento News and Review, Sacramento, CA.

**Lee, R.E.** Radio interview with Ricardo Rivera on KPFT, December, 2005.

**Lee, R.E.** Radio interview on KUHF, February, 2006 - [http://www.kuhf.org/site/News2?page=NewsArticle&id=15358&news\\_iv\\_ctrl=-1](http://www.kuhf.org/site/News2?page=NewsArticle&id=15358&news_iv_ctrl=-1)

**Olvera, N.** Interview with El Dia newspaper. "BOUNCE: A Health Lifestyle Program for Mothers and Girls, March 21, 2006.

**McFarlin B.K.** Interview for New York Times, "Fitness: Upgrading the World to Nowhere" March 30, 2006.

**Bush, J.A.** Featured in UH 'HEART MONTH' TIP SHEET: UH RESEARCHERS PUT A LOT OF HEART INTO THEIR WORK – February, 2006. [http://www.uh.edu/admin/media/nr/2006/02feb/020906heart\\_tips.html](http://www.uh.edu/admin/media/nr/2006/02feb/020906heart_tips.html)

**Bush, J.A.** 'Band' study featured in Daily Cougar, March 2006.

**Gingiss, P.M.** Texas Department of State Health Services Database Provides Texas Information About Smoke-Free Ordinances. Released statewide. July 26, 2006. [http://www.uh.edu/admin/media/nr/2006/08aug/080906smoking\\_ordinances.html](http://www.uh.edu/admin/media/nr/2006/08aug/080906smoking_ordinances.html).

**Gingiss, P.M.** Eureka Alert - No butts about it: Unique UH database shows Texas is crushing out smoking.

[http://www.eurekaalert.org/pub\\_releases/2006-08/uoh-nba081106.php](http://www.eurekaalert.org/pub_releases/2006-08/uoh-nba081106.php)

<http://www.medicalnewstoday.com>

<http://www.medilexicon.com>

<http://www.hospitalsworldwide.com>

<http://www.emaxhealth.com/58/6982.html>

<http://www.statesman.com/news/content/news/stories/local/08/8texasdigest.html>

<http://www.tobacco.org/articles/edition/2875/>

<http://www.emaxhealth.com/58/6982.html>

<http://www.globalrph.com/news.php?category=84>

<http://diabetescaretips.info/free-diabetes-test.php>

**Lee, R.E.** Los Angeles Times – Go ahead, people, take it all off – 7/24/06.  
<http://www.latimes.com/features/health/la-he-striptease24jul24,1,1705416.story>

**Lee, R.E.** Houston Chronicle - Study focuses on obesity in black women - 7/6/06.  
[http://www.chron.com/CDA/archives/archive.mpl?id=2006\\_4146424](http://www.chron.com/CDA/archives/archive.mpl?id=2006_4146424)

**Lee, R.E.** Austin American Statesman – Does teamwork make us eat healthier, exercise more?  
5/22/06 <http://www.statesman.com/search/content/news/stories/local/05/22utstudy.html>

**Lee, R.E.** Houston Chronicle—Struggle against obesity often begins in the stroller – 6/11/06.

**Lee, R.E.** U.S. House Representative, Sheila Jackson-Lee visited with members of the UNDO and community advisors at luncheon hosted by UNDO – July, 2006.

**Olvera, N.** Houston Chronicle, Hispanic Mothers, Daughters are study targets... Healthy Eating, Exercise focus of UH program, July 13, 2006.

**Olvera, N.** Houston Chronicle - Study urges starting child obesity battle before birth - 6/6/06

**Olvera, N.** Noticiero 47, Telemundo. BOUNCE-Lite Summer Program for Girls (July 2006)

**Olvera, N.** Noticiero Univision, Childhood Obesity in Hispanic Children (July 2006).

## Student Kudos

**Student Nutrition Association** participated in the Children's Nutrition Expo sponsored by the Houston Area Dietetic Association, Children's Museum of Natural Science, February 25<sup>th</sup>, 2006.

**Scott-Pandorff, M.** Locomotion on Mars: Exploration using a microgravity locomotion simulator, \$23,000, submitted - NASA Graduate Space Research Program. (**Max Kurz**, faculty advisor).

**Arellano, C.** Force Treadmill to Measure the Effects of Gravity on Space Suit Locomotion, \$23,000, submitted - NASA Graduate Space Research Program. (**Max Kurz**, faculty advisor).

Higuera S, Hollier L, **Stevens P** and Stahl S. A Preliminary Investigation of Postoperative Molding to Improve the Result of Cranial Vault Remodeling. *J Prosthet Orthot.* 2005;17(4):125-131.

**Stevens, P.M.** The "Skull Molding Cap" and Post-operative Treatment of Metopic Craniosynostosis. *Academy Today.* 2005;1(3).

The **Student Nutrition Association** was awarded \$500.00 by the Houston Area Dietetic Association to support their efforts at Frontier Fiesta.

**Nisa Dadjoo** (undergraduate student) was awarded a PURS fellowship for Spring 2006 to study with **Dr. McFarlin**

**Russell Sollock** accepted to Physical Therapy Assistant Program Fall 2006 - T J.B. Coleman Health Science Center.

**Student Nutrition Association** hosted a tent at Frontier Fiesta—April, 2006 – raised \$1,200 for a SNA Student Scholarship.

**Mellisa Scott-Pandorff** was awarded National Space Biomedical Research Institute Student Summer Fellowship to work at NASA-Johnson Space Center – June-August, 2006, (Mentor: **Kurz, M.**)

**Mellisa Scott-Pandorff** was selected as a NASA/Texas Space Grant Consortium Fellow for the 2006-2007 academic year - \$5000.00 – (Mentor: **Kurz, M.**).

**Chris Arellano** was awarded National Space Biomedical Research Institute Student Summer Fellowship to work at NASA-Johnson Space Center – June-August, 2006, (Mentor: **Kurz, M.**).

**Eric James** presented at UH Sigma Xi Student Research Day ‘The Relationship between Structural Complexity, Variability and Focus of Attention in Rhythmic Bimanual Movements’, April, 2006, (**Layne, C.S.**, mentor).

**Michael Kueht** was awarded a SURF (Summer Undergraduate Research Fellowship) – ‘The effect of carbohydrate consumption on the regulatory interaction between T-lymphocytes and natural killer cells’, May, 2006, (Mentor: **McFarlin, B.K.**)

**Jorge Garza** was awarded a SURF (Summer Undergraduate Research Fellowship), May, 2006, (Mentor: **Kurz, M.**)

**Michelle McNerney** was awarded a SURF (Summer Undergraduate Research Fellowship), May, 2006, (Mentor: **Kurz, M.**),

**Alex Hutchison** was awarded UH AGEF (Alliances for Graduate Education and the Professoriate) Summer 2006 Research Program. Project: “The effect of diet-induced obesity on whole body and tissue specific inflammation” (Mentor: **McFarlin, B.K.**).

**Alex Hutchison** was awarded UH AGEF Fellowship – Fall 2006 (0.25 FTE). Project: “The effect of hypoxia on cultured adipocytes, role of TLR4?” (Mentor: **McFarlin BK.**)

**Heidi Perkins** defended her dissertation titled ‘Achievement goals and fear of failure as predictors of stage of change for physical activity’. – March, 2006, (Pease, D. advisor).

**Heidi Perkins** has accepted a research position at M.D. Anderson Cancer Center, June, 2006.

**Dean Culpepper** defended his dissertation titled “Cortical activity of mood state depressed individuals from a reversal theory perspective” May, 2006 (**Pease, D.**, advisor). Dean and will continue his faculty position next year at University of Wisconsin - River Falls.

**Nisa Dadjoo** was accepted to UT Dental School for Fall 2006 Class.

**Jessica Wheeler** defended her thesis titled ‘Changes in Muscle Co-Contraction after Practice of a Postural Task’, April, 2006, (**Layne, C.S.**, mentor).

**Eric James** defended his thesis titled ‘The Relationship between Structural Complexity, Variability and Focus of Attention in Rhythmic Bimanual Movements’, April, 2006, (**Layne, C.S.**, mentor).

**Jaime Garza** completed his NATA residency requirements with the Buffalo Bills of the NFL. Mr. Garza will begin a graduate assistantship in the Sports Medicine Department, Stephen F. Austin University, July, 2006.

***HHP student scholarship awardees:***

Irene Smith Buckner – **Amir Pourmoghaddam**

Mary Louise White – **Gabriela Maldonado**

***Outstanding Students:***

NUTR – **Dana McDonald**

KIN/ES – **Michael Kueht**

KIN/MS – **Tracy Davis**

KIN/SA – **Crystin A. Niscavits**

HEALTH – **Ann Mahoney**

**Phil Stevens**, Spring, 2006 graduate of the Masters Degree Program in Allied Health Education and Administration, received a College of Education Outstanding Graduate Student Research Award.

**Hutchison, A.** “Developing a diet-induced obesity model in mice to access TLR4 as a link between obesity, weight loss, and chronic inflammation”. Presented at the annual graduate student research day of the UH-Rice Alliances for Graduate Education and the Professoriate, August 11<sup>th</sup>, 2006.

**Alumni Kudos**

**Andrew Abercromby** – accepted a position as senior engineer in the Anthropometry and Biomechanics Facility at NASA-Johnson Space Center.

**Alton (T.J) Burns** passed the State of Texas Licensure for athletic training and can now add LAT to his credentials along with his B.S. in Kinesiology.

**Stephanie Broussard** was named Shell E&P Wellness Coordinator

**Lorraine Killion** has accepted an assistant professor position with Lamar University, August, 2006.

**Hughes, D.** Applying Reversal Theory to behavioral interventions for cancer survivors. Reversal Theory conference. Shreveport, LA, July 28-29, 2006.

**Culpepper, D. and Killion, L.** Body dissatisfaction in young adults: A RT perspective. Reversal Theory conference. Shreveport, LA, July 28-29, 2006.

**Lee, J. & Killion, L.** A pictorial scale of negativism in children. Reversal Theory conference. Shreveport, LA, July 28-29, 2006.

**Understanding and development made possible  
by a faculty of experts in the fields of:**

- Health and Physical Education
- Behavioral Medicine
- Developmental Psychology
- Biodynamics
- Biomechanics
- Exercise Physiology
- Motor Development
- Motor Control
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- Public Health
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- Community Health Practices
- Education Administration
- Epidemiology
- Human Environmental Sciences
- Nutritional Biochemistry
- Kinesiology
- Pediatric Nutrition
- Health Promotions
- Supervision, Curriculum and Instruction
- Biostatistics
- Community Psychology