

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

The 2003-2004 academic year was a time of acceleration. The groundwork that had been laid in the previous years provided the solid base that enabled our department to accelerate its rapid growth in academics, research and service. This acceleration is reflected in 34 peer-reviewed articles, 36 scientific presentations, personnel increases, curriculum revisions, and dramatically improved quality of graduate students.

Additionally, we received \$3,459,601.23 in funding to support research and other projects and applied for another \$5,415,462.26 in funding.

### **Space**

The Garrison-Melcher complex continued to undergo extensive renovations. The former Garrison Gymnasium was unveiled as the Math Emporium. The old Motor Control Lab (Garrison 105D) was remodeled and now serves as the HHP student computer laboratory. The old Garrison cage area and locker rooms were remodeled and currently house the Air Force ROTC program. Additional remodeling of the former Garrison locker rooms resulted in the development of three additional classrooms. An “assessment center” was also developed for use by HHP. Applause for this center was entered into the Congressional Record by Representative Shelia Jackson Lee. Garrison 201 and 203 were developed into a large classroom. The Melcher classrooms were refurbished and modernized. In January, the Laboratory of Integrated Physiology (LIP Lab) hosted a successful open house that was attended by UH, Texas Medical Center and Johnson Space Center personnel. The former Recreation offices were upgraded for their role as the Tiger study “den”. These offices house the project’s director and teaching fellows. HHP’s computer specialist, Mike Alf and his technology center occupies Garrison 102D.

### **Academics**

The undergraduate exercise science and American Dietetic Association (ADA) certified nutrition curriculum underwent reviews within the HHP undergraduate committee. Both of these programs were modified and subsequently approved by the university Undergraduate council. After attempting to have PEB 1101 restored to the university core as a mandatory course, a modified version of 1101 (PEB 1304) was accepted by the Undergraduate Council as a Social Science elective. The MED committee continued to adopt their operating procedures and finalized the MED in Physical Education. The faculty worked very hard to develop graduate courses that will constitute the on-line component of the MED. A website devoted to the on-line MED was launched that provides information about the program. Under the direction of the Graduate Research Degrees committee, the Allied Health and Administration Ed.D. degree underwent an internal review. Following the submission of a review document, Dr. Robert Wimpelberg made the decision not to recommend the program undergo an external review. The moratorium on student admissions to the Ed.D. program was extended indefinitely.

## **Research**

The TIGER (Training Interventions and Genetics of Exercise Response) study was initiated in the Fall 2003 semester with a number of modified PEB 11101 courses and pre-intervention assessment. This NIH funded project is designed to explore possible relationships between genetics, physical activity and genetics. The HNET and Tobacco Cessation projects continued, along with increased funding from NASA, the Institute of Space Systems Operations and Wyle Life Sciences. The Laboratory of Integrated Physiology completed its developmental stage and began to produce peer-reviewed articles and presentations. All most all of the faculty obtained some level of financial support for their research efforts during this past year. Additionally, the university awarded HHP with \$90,000.00 to purchase a DEXA scanning machine. A complete record of scientific articles, presentations and funded research projects can be found on the following pages.

## **Relationships**

In June, the College of Education signed a Space Act Agreement with Johnson Space Center. This reciprocal agreement will allow HHP faculty and students easy access to the facilities at JSC and vice versa. The department has been intimately involved in the developmental stages of the National Center of Human Performance. This center is being developed under the auspices of the Texas Medical Center. The Dietetic Internship expanded to include more community sites to accommodate its growth in the number of interns enrolled in the program. Dr. Whitney Boling began serving as the faculty advisor of the Collegiate Cancer Council (CCC). Q-FIT, our physical and quality of life assessment center maintained its relationship and space within the Campus Recreation and Wellness Center. As always, many of our professors held appointments and/or maintained solid relationships with UTMB, the Texas Medical Center universities and Johnson Space Center, along with many school districts and community organizations. Dr. Layne was one of 20 UH professors invited to present his research to a table of distinguished guests at a breakfast prior to UH Research and Scholarship Day. The Quality of Life, Physical Activity and Dietetics Assessment Center (QUAD) took its first tentative steps, including developing a relationship with the UH Band, Dance and Cheer organization to provide physical fitness assessment and programming. In August, Dr. Layne met with April Burke and Jake Haselswerdt, UH federal lobbyists based in Washington D.C. to discuss our emerging "obesity" agenda.

## **New Personnel**

Dr. Rebecca Lee (obesity specialist), and Dr. Brian McFarlin (exercise physiologist and nutrition) joined our faculty as assistant professors.

Dr. Daniel Martinez (physiology) joined our faculty as an Associate Professor.

Dr. Mary Anne Frey, Dr. Eric Brown, and Ms. Janice Davis-Street joined our research faculty through of new office of Data Analysis and Dissemination funded by Wyle Life Sciences.

Angie Vazquez joined us as a grants administrative assistant.

Alma Gonzalez was promoted to Academic Advisor I and advises Kinesiology majors.

Erin Prevett was hired as an Academic Assistant and advises Health and Nutrition students.

Claire Carpenter served as an Academic Advisor for the online MED and Discover U program.

Dr. Janice Wendt was named Professor Emeritus.

Dr. Chuck Layne was promoted to Professor.

Richard “Rookie” Dickenson, a long time HHP, Recreation and Athletics employee and the ultimate “Cougar” passed away suddenly in June, 2004. Not to see his infectious smile at future UH sporting events and around our department will be difficult.

Several faculty and staff lost loved ones this past year. Our prayers and sympathies have been with them.

## PUBLICATIONS

**Whisenant, W.A.**, Pederson, P.M. (2004). "Analyzing attitudes regarding quantity and quality of sports page coverage: Athletic director perceptions of newspaper coverage given to interscholastic sports." International Sports Journal 8(1): 54-64.

Suryawan, A., O'Conner, P.M.J., Kimball, S.R., **Bush, J.A.**, Nguyen, H.V., Jefferson, L.S., Davis, T.A. (2004). "Amino acids do not alter insulin-induced activation of the insulin signaling pathway in neonatal pigs." J. Nutr. 134(1): 24-30.

**Pearson, D.W.** (2004). Shadow riders of the subterranean circuit: A descriptive account of Black rodeo in the Texas Gulf Coast region. The Journal of American Culture, 27 (2), 190-198.

Matalon, R., Koch, R., **Michals Matalon, K.**, Moseley, K., Surendran, S., Tyring, S., Erlandsen, H., Gamez, A., Stevens, R.C., Romstad, A., Moller, L.B., Guttler, F. (2004). "Biopterin Responsive Phenylalanine Hydroxylase Deficiency." Genet Med 6: 27-32.

Navidi, M., Evans, J., **Wolinsky, I.**, Arnaud, S.B. (2004). "Calcium balance in mature rats with unloaded hindlimbs." Aviat. Space Environ. Med. 75: 483-488.

Pedersen, P.M. , **Whisenant, W.A.**, & Clement, A. (2003). "Methodology for examining stereotypical written and photographic reporting on the sports page." Women in Sport and Physical Activity Journal, 12(2): 147-149.

**Bush, J.A.** and T. Triplett-McBride (2004). The adrenal medulla preproenkephalins and exercise stress. The Encyclopedia of Sports Medicine, Blackwell Science.

Matalon, R., **K. Michals Matalon** (2003). Canavan Disease. The Molecular and Genetic Basis of Neurological and Psychological Disease. R. N. Rosenberg, S. B. Prusiner, S. DiMauro, R.L. Barchi and E.J. Nestler. Philadelphia, Butterworth and Heinemann: 383-388.

Soukup, G.J., **J.C. Wendt**, J.T. Kellow (2003). "Differences in Health and Fitness Knowledge in Secondary Physical Education and Substitute Physical Education Students." Texas Association HPERD Journal 72: 10-12.

**Jackson AS**, Kampert JB, Barlow CE, Morrow JR Jr, Church TS, Blair SN. Longitudinal changes in cardiorespiratory fitness: measurement error or true change? Med Sci Sports Exerc. 2004 Jul;36(7):1175-80.

Surendran, S., **K. Michals Matalon**, M.J. Quast, S.K. Tyring, J. Wei, E.L. Ezell, R. Matalon (2003). "Canavan disease: a monogenic trait with complex genomic interaction." Molecular Genetics and Metabolism 80: 74-80.

Stanforth PR, **Jackson AS**, Green JS, Gagnon J, Rankinen T, Despres JP, Bouchard C, Leon AS, Rao DC, Skinner JS, Wilmore JH. Generalized abdominal visceral fat prediction models for black and white adults aged 17-65 y: the HERITAGE Family Study. *Int J Obes Relat Metab Disord.* 2004 Jul;28(7):925-32.

**Clarke, M.S.F.** (2004). "The effects of exercise on skeletal muscle in the aged." *Journal of Musculoskeletal and Neuronal Interactions.* 4:75-78.

**Whisenant, W.** (2003). "How women have fared as interscholastic athletic administrators since the passage of Title IX." *Sex Roles,* 49(3/4): 179-184.

O'Conner, P.M.J., Kimball, S.R., Suryawan, A., **Bush, J.A.**, Nguyen, H.V., Jefferson, L.S., Davis, T.A. (2004). "Regulation of neonatal liver protein synthesis by insulin and amino acids in pigs." *Am J Physiol Endocrinol Metab.* 286(6):994-1003.

**Clarke, M.S.F.**, Vanderburg, C.R., Feedback, D.L. (2004). Impact Mediated Cytoplasmic Loading of Macromolecules into Adherent Cells. *Cell Biology: A Laboratory Handbook.* J.E. Celis, Academic Press.

Young, K., **Boling, W.** (2004). "Improving the Quality of Professional Life: Benefits of Health Education and Promotion Association Membership." *California Journal of Health Promotion* 2(1): 39-44.

Matalon, R., Surendran, S., **Michals Matalon, K.**, Trying, S., Quast, M., Jinga, W., Ezell, E., Szucs, S. (2003). "Future Role of Large Neutral Amino Acids in Transport of Phenylalanine into the Brain." *Pediatr.* 112: 1570-1574.

**Whisenant, W.A.**, Pederson, P.M. (2004). "The influence of managerial activities on the success of intercollegiate athletic directors." *American Business Review* 22(1): 21-26.

Surendran, S., P.L. Rady, **K. Michals Matalon, M.J.** Quast, D.K. Rassin, G.A. Campbell, E.L. Ezell, J. Wei, S.K. Tying, S. Szucs, R. Matalon (2003). "Expression of glutamate transporter, GABRA6, serine proteinase inhibitor 2 and low levels of glutamate and GABA in the brain of knock-out mouse for Canavan Disease." *Brain Research Bulletin* 61: 427-435.

Smucker, M., **W. Whisenant,** P. Pederson (2003). "An investigation of job satisfaction and female sport journalists." *Sex Roles* 49(7/8): 401-407.

Orellana, R.A., Kimball, S.R., Nguyen, H.V., **Bush, J.A.**, Suryawan, A., Thivierge, M.C., Jefferson, L.S., Davis, T.A. (2004). "Regulation of muscle protein synthesis in neonatal pigs during prolonged endotoxemia." *Pediatr. Res.* 55(3): 442-449.

Koch, R., Hanley, W., Levy, H., **Matalon, K.**, Matalon, R., Rouse, B., Trefz, F., Guttler, F., Azen, C., Platt, L., Waisbren, S., Widaman, K., Ning, J., Friedman, E., de la Cruz, F. (2003). "The Maternal Phenylketonuria International Study." *Pediatr.* 112: 1523-1529.

**Jackson AS**, Pollock ML. Generalized equations for predicting body density of men. 1978. *Br J Nutr.* 2004 Jan;91(1):161-8.

Ramsay, T.G., **Bush, J.A.**, McMurty, J.P., Thivierge, M.C., Davis, T.A. (2004). "Peripheral leptin administration alters homrone and metabolite levels in the young pig." *Comparative Biochemistry and Physiology* 138(1): 17-25.

Matalon, R., **K. Michals Matalon** (2003). The mucopolysaccharidoses and the mucolipidoses. *The Molecular and Genetic Basis of Neurological and Psychological Disease*. R.N. Rosenberg, S.B. Prusiner, S. DiMauro, R.L. Barchi and E.J. Nestler. Philadelphia, Butterworth and Heinemann: 263-278.

Pederson, P., **W. Whisenant**, R. Schneider (2003). "Using a content analysis to examine the gendering of sports newspaper personnel and their coverage." *Journal of Sport Management* 17: 376-397.

**Wolinsky, I.**, and Driskell, J.A. (2004). Summary and Implications - Nutritional Ergogenic Aids. *Nutritional Ergogenic Aids*. Boca Raton, FL: 507-518.

Kraemer, W.J., Mastro, A.M., Gordon, S.E., Koziris, L.P., **Bush, J.A.**, Volek, J.S., Staron, R.S., French, D.N., Sharman, M.J., Jemiolo, B., Deschenes, M.R., Hymer, W.C. (2004). "Responses of plasma Proenkephalin peptide F in rats following 14 days of spaceflight." *Aviat. Space Environ. Med.* 75(2): 114-117.

**Michals Matalon, K.**, Acosta, P.B., Azen, C. (2003). "Role of Nutrition in Pregnancy with Phenylketonuria and Birth Defects." *Pediatr.* 112: 1534-1536.

Suminski RR, Ryan ND, Poston CS, **Jackson AS**. Measuring aerobic fitness of Hispanic youth 10 to 12 years of age. *Int J Sports Med.* 2004 Jan;25(1):61-7.

**Whisenant, W.A.**, Pederson, P.M. (2004). "Traditional managerial activities and interscholastic athletic directors: Examining the differences, similarities, and connections between engagement, gender, and success of high school sports administrators." *Public Organizational Review: A Global Journal* 4: 75-84.

## ARTICLES IN PRESS

**Layne, C.S. Forth, K.E., Abercromby, A.F.** Does varying muscle spindle input modify neuromuscular responses to foot stimulation. *Acta Astronautica* (in press).

Smucker, M. & **Whisenant, W.** Providing a satisfaction foundation: Differences in men and women interscholastic coaches of girls' sports. *Applied Research in Coaching and Athletics Annual.* (in press)

Davis, T.A., **Bush, J.A.**, Vann, R.C., Suryawan, A., Kimball, S.R., Burrin, D.G. (2004). "Somatotropin regulation of protein metabolism in pigs." J. Anim. Sci. (in press)

**Layne, C.S.**, Mulavara, A., McDonald, P.V., Pruett, C.J., Kozlovskaya, I.B., Bloomberg, J.J. Alternations in Human Neuromuscular Activation during Overground Locomotion after Long-Duration Spaceflight. Journal of Gravitational Physiology (in press).

**Hughes, D.C.** Health Behaviors. In Naus, M.J., Bussell, V.A, Llewellyn, A., Baker, S.H. (Eds.) *Health psychology and behavioral medicine: A book of readings*. Pearson Prentice Hall: New Jersey. (in press)

### OTHER PUBLICATIONS

Klimis-Zacas, D., **Wolinsky, I.** (2004). Nutritional Concerns of Women. Boca Raton, FL, CRC Press.

**Boling, W.** (2004). "Caregiver Quality of Life for Cystic Fibrosis (CQOLCF) Scale." Compendium of Quality of Life Instruments. WSP Centre for Socioeconomic Research

Klimas-Zacas, D., Kalea, A.Z., **Wolinsky, I.** (2004). Nutritional Issues of Cardiovascular Disease in Women. Nutritional Concerns of Women. Boca Raton, FL, CRC Press.

**Gingiss, P.M., Boerm, M.C.**, Roberts-Gray, C., Hermer, L.D., Marshall, J. (2004). Changes in Ordinance Coverage of Second Hand Smoke Exposure Level of Restrictiveness in Texas Municipalities: 2002-2003. 1-8.

**Bloom, J.** book titled "Cyclistics for the Rider"- with Lee Wright of Exxon Mobile Corporate Fitness Center. October 2003, Crystal Press-Houston – September, 2003.

**Olvera, N.** (2003). Strategic Plan for the Prevention and Treatment of Overweight Children in Houston-Harris County, Harris County Youth Nutrition and Fitness Initiative.

**Layne, C.S., Clarke, M.S.F., Martinez, D.A.**, Feeback, D.L., **Kyparos, A.** Using Dynamic Foot Pressure as a Countermeasure to Muscle Atrophy. Institute for Space Systems Operations (ISSO), 2003, Annual Report.

**Wolinsky, I.**, and Driskell, J.A., Ed. (2004). Nutritional Ergogenic Aids. Boca Raton, FL, CRC Press.

## FUNDING

Genetic Factors in Physical Activity and Obesity, NIH RO1, Principal Investigators: Dr. Molly Bray, Human Genetics Center, University of Texas Health Science Center, Houston, Texas and **Dr. Andrew S. Jackson**, Department of Health and Human Performance, University of Houston. Total funding: \$3,300,000. University of Houston portion of the grant, \$882,404. **Dr. Jill Bush** and **Dr. Brian Sekula** are co-investigators.

Barbieri E., **Layne, C.S.** Pre/Post-Flight Neuromuscular Control with Variable Resistance/Assistance Exercise Machines. Institute for Space Systems Operations. (funded, 2004-2006, \$120,000 over 3 years for a post-doctoral fellow to work at UH and NASA).

**Olvera N.** Dr. Christine McCullum (Principal Investigator). *Determinants of Breast Cancer Risk in Latina Girls*. National Cancer Institute (\$200,000.00) (Role: Consultant) - submitted - September 2003.

**Pearson, D.W.** (Principal Investigator), Curtis, R., & Conyers, J. (Co-Investigators) "Black in the Saddle: Narratives of the First African American Cowboy Invited to the National Finals Rodeo." UH Small Grants Program - awarded, \$1,500.00, November, 2003.

**Bloom, J.** 2003 PEP Team Grant recipient as part of the Houston/Spring Branch ISD. \$499,099.00. Dr. Bloom will be doing the cycling safety curriculum for both districts. The cycles are underwritten by Marathon Fitness - Toronto Canada @ a total of \$12,000.00 - September, 2003.

**Bush, J.A., Boling, W., Sekula, B., Jackson, A.** Strategies to encourage physical activity among employees. NIH-NIDDK, RFA, CNRC-BCM Subcontract: Ellis, K. (submitted, March, \$1,373,059).

**Olvera N.** Drs. Russell Jago (Principal Investigator), Cheryl Anderson, and Issa Zakeri (Co-Investigators). *Soccer to Prevent Colon Cancer in Hispanic Boys*. National Cancer Institute (\$200,000.00) (Role: Consultant) - submitted - September 2003.

**Wolinsky, I.** Participant in grant proposal to Baylor College of Medicine on behalf of the Center for Research on Women with Disabilities, a health education intervention for women with heart disease and obesity.

**Layne, C.S.** A training program using dynamic foot stimulation promotes neuromuscular activation in individuals with spinal cord injuries. Submitted to the Christopher Reeve Paralysis Foundation - \$43,024.94 - December, 2003.

**Clarke, M.S.F.** Subtractive Proteomic Profiling of Control, Atrophied and Rat Skeletal Muscle Protected by Dynamic Foot Stimulation. Institute for Space Systems Operations. (funded, \$120,000 over 3 years, post-doc fellow).

**Bloom, J.** will work as part of a research team on a \$53,000 grant in HISD and Spring Branch to include cycling in the wellness curricula. Dr. Bloom's role is to instruct the teachers to lead the classes, supervise the instruction and be involved in data collection.

**Clarke, M.S.F.** "Development of a Microgravity-Compatible Slide Staining Device" Institute for Space Systems Operations Technology Development Mini-Grant, (funded, April, 2004 - \$16,300).

**Bloom, J.** Grant from the Texas Bicycle Coalition/Texas Department of Transportation "Texas SuperCyclist Education Program". Teaching classroom teachers to teach cycling fitness and safety - \$2000.00.

**Bode, S.** Medical Nutrition Therapy: Application Through Technology - FDIP \$4000.00.

**Layne, C.S. and Clarke, M.S.F.** Developmental evaluation of a dynamic foot stimulation device. National Aeronautics and Space Administration (NASA) - funded - direct costs - \$79,592 - January, 2004.

**Clarke, M.S.F., Grill, R., Layne, C.S.** Stimulation of Somatosensory Pathways in Spinal Cord Injury. National Institute of Health RO1 (submitted - \$953,200).

**Olvera, N.** Promoting Healthy Lifestyle in Children and Adolescents, Episcopal Health Charities (\$40,250).

Franchek, M. Zimmerman, D., **Clarke, M.S.F., Layne, C.S.** Noninvasive Biosensor Fusion for Heart Health Estimation, Prognostics Cardiovascular Health Monitoring. National Science Foundation (submitted - \$673,500).

**Gingiss P.M.** Research and Evaluation of the Texas Tobacco Prevention and Control Initiative - continued funding - 2003-04 - \$696,362.00.

**Olvera, N.** (Principal Investigator), **Layne, C.S., Sekula, B.** (Co-Investigators). "Correlates of Physical Activity and BMI in Hispanic and White Children." National Institutes of Health (\$891,000.00). (submitted October 1, 2003).

**Matalon, K.** "Response of Phenylketonuria to Tetrahydrobiopterin (BH4). FDA Orphan Drug Program. Study period 3 years. Total costs (direct and indirect \$168,767, submitted, April, 2004).

**Clarke, M.S.F., Kyparos, A., Layne, C.S.** Stimulation of somatosensory pathways in SCI. NIH - National Institute of Neurological Disorders and Stroke (NINDS) - \$1,002,511.32 - total request.

**Olvera, N.** (Principal Investigator), Tinker Murray, & Lorraine Killion. Review of Health Interventions for Children and Adolescents. Kelsey Foundation (\$6, 500.00). - funded - October, 2003.

**Pearson, D. W.** "Faith-Based Physical Activity Programs: A New Ministry or the Reemergence of Muscular Christianity in Contemporary Society." UH-COE Faculty Research Opportunity Award (\$4,000.00). Submitted November 17, 2003.

**Pease, D.** Physical activity and stress in Hispanic breast cancer survivors. Faculty Research Opportunity Award - COE - \$3,450.00 - December, 2004.

**Clarke, M.S.F.,** Feeback, D. Subtractive Proteomic Profiling of Control, Atrophied and Rat Skeletal Muscle Protected by Dynamic Foot Stimulation. Institute for Space Systems Operations. (funded - \$120,000 over 3 years for a post-doctoral fellow to work at UH and NASA).

**Layne, C.S.** Development of the Office of Scientific Data Review and Dissemination, Wyle Laboratories Inc., Life Sciences, Systems, and Services – (funded – total - \$1,370,861.23 – IDC - 664.867,69 - 3.5 years)

**Smith, D.W., Clarke, M.S.F.** Maintenance of Smoking Reduction in Adolescents National Institute of Health, RO1 (submitted \$252,400 as a subcontract from TAMU).

**Whisenant W.** Title IX vs Title VII: A Lack of Diversity Off the Field in Texas High School Sports. Faculty Research Opportunity Award - COE - \$3,200.00. - December, 2004.

**Clarke, M.S.F.,** "Development and Characterization of a Three-Dimensional Tissue Culture Model of Bone." NASA-Johnson Space Center, Biotechnology Program (funded May, 2004, \$37,932). One year research grant to support two graduate students with an option to extend for an additional 3 years.

## PRESENTATIONS

**Whisenant, W.** (2004, July). *Coaches' perceptions of what it takes to become an athletic administrator*. Paper to be presented at the 20<sup>th</sup> Annual Summer Conference (Texas Association for Health, Physical Education, Recreation, and Dance), Waco, TX.

**Boling, W.** Panelist: "AAHE Outstanding Undergraduate Health Education Majors of the Years Award Ceremony and Students with Leaders in Conversation." Annual Meeting of the American Association for Health Education, New Orleans, LA, 2004.

**Olvera, N.** Raising Healthy Children (March 2004). ADVANCE Head Start Parent Conference, Houston Texas.

Smucker, M. & **Whisenant, W.** (2004, January) Job satisfaction of men and women who coach girls' high school sports: A comparative analysis. Paper presented at the 2004 National Association for Physical Education in Higher Education (NAPEHE) Conference, Tampa, FL.

**Avolevan, V.L., Rahming, W.D., Carmack-Taylor, C.L., Rosenblum, C., Olvera, N., Basen-Engquist, K.** (March, 2004). Physical performance of breast cancer survivors. Annual Meeting of the Society of Behavioral Medicine, Baltimore, MD.

**Layne, C.S., Forth, K.E., Abercromby, A.F., and Clarke, M.S.F.** "Using patterned mechanical stimuli and varied muscle spindle input to modify neuromuscular" presented at the Annual meeting of the Society for Neuroscience, New Orleans, LA, November, 2003.

Suryawan, A., O'Conner, P.M.J., Orellana, R.A., Nguyen, J.V., **Bush, JA.**, Liu, C.W., Davis, T.A. (2004). "Tissue specificity of the protein synthetic response to insulin and amino acids in neonatal pigs." Federation for American Societies of Experimental Biology Journal 18(5): A543.

**Whisenant, W.** (2004, July). *The media's coverage of girls' and boys' athletics: As the ADs see it*. Paper to be presented at the 20<sup>th</sup> Annual Summer Conference (Texas Association for Health, Physical Education, Recreation, and Dance), Waco, TX.

**Boerm, M.C. & Gingiss, P.M.** (2003). "A Comparison of Changes in Tobacco Control Practices in Intervention and Non-Intervention Schools from Baseline (2000) to Follow-up (2002)." Houston, TX: University of Houston. Proceedings of the 12<sup>th</sup> World Conference on Tobacco or Health, August 3-8, 2003, Helsinki, Finland.

**Boling W., Bowden R.** "What's New, Now, and Next: Quality of Life and Health Education." Presentation at the Annual Meeting of the American Association for Health Education, New Orleans, LA, 2004.

Hermer, L.D. & **Gingiss, P.M.** (2003). Identifying and Revising Language in Texas Municipal SHS Ordinances that Detract from their Strength. National Conference on Smoking OR Health, December 10-13, 2003, Boston, MA.

**Whisenant, W.** & Stretcher, R. (2003, October) *The thrill of victory and the agony of Title IX*. Paper presented at the Allied Academies International Conference, International Academy for Case Studies (IACS), Las Vegas, NV.

**Clarke, M.S.F.** "Modulation of Skeletal Muscle SERCA Function as A Consequence of Mechanical Unloading" Presented at "Living Beings and Environment: Adaptation to Extreme Conditions" - conference hosted by the Russian Academy of Sciences, Moscow, Russia November 4th, 2003.

**Boling, W.** Presentation - Quality of life assessment in Cancer populations - Intercultural Cancer Council 9<sup>th</sup> Biennial Symposium on Minorities, the Medically Underserved and Cancer: Awareness to Action, The Unequal Burden of Cancer.

**Cullpepper, D.** Effects of exercise on mood state depression. Presented at Association for the Advancement of Applied Sport Psychology meeting in Philadelphia, PA, October, 2003.

**Whisenant, W.** (2003, December) *Systemic barriers faced by women seeking to become AD's in Texas*. Paper presented at the 80<sup>th</sup> TAHPERD Convention (Texas Association for Health, Physical Education, Recreation, and Dance), Galveston, TX.

Donahue R., Perko M., **Boling W.**, Strasser S.M. "Nominal Group Process: A Health Planner's Best Friend." Presentation at the Annual Meeting of the American Association for Health Education, New Orleans, LA, 2004.

Orellana, R.A., Kimball, S.R., Nguyen, H.V., **Bush, J.A.**, Suryawan, A., Thivierge, M.C., Liu, W., Jefferson, L.S., Davis, T.A. (2004). "Insulin stimulated muscle protein synthesis in neonates during endotoxemia despite suppression of insulin-stimulated mTOR-dependent translations initiation." Federation for American Societies of Experimental Biology Journal 18(5): A855.

Smucker, M. & **Whisenant, W.** (2004, June). *The relationship between organizational justice and job satisfaction among interscholastic coaches of girls' sports*. Paper presented at The North American Society for Sport Management 19<sup>th</sup> Annual Conference (NASSM), Atlanta, GA

**Gingiss, P.M.** & Roberts-Gray, C. (2003). "Bridge-It: An Assessment Model for Forecasting Likelihood of Successful Implementation of School-Based Tobacco Programs." Houston, TX: University of Houston. Proceedings of the 12<sup>th</sup> World Conference on Tobacco or Health, August 3-8, 2003, Helsinki, Finland.

**Killion, L., Wendt, J., Hughes, S., Pease, D.** and Nicklas, T. Maternal Perceptions of their Preschool Child's Body Size. Presented at the Society of Behavioral Medicine annual meeting in Baltimore, MD, March, 2004. This abstract received a "Meritorious Award".

**Whisenant, W.** & Smucker, M. (2004, January) *As educators, do we provide prospective coaches with the administrative skills necessary to become interscholastic athletic administrators?* Paper presented at the 2004 National Association for Physical Education in Higher Education (NAPEHE) Conference, Tampa, FL.

**Layne, C.S.** Panelist: Budget Crunches and the Future: The Need for Strategic Planning - Texas Association for Health, Physical Education, Recreation, and Dance (TAHPERD) – Galveston, TX, December, 2003.

**Boerm, M.C., Gingiss, P.M., & Smith, D.W.** (2003). “A Comparison of School-Wide Tobacco Education Coverage in Intervention and Non-Intervention Schools.” Houston, TX: University of Houston. Proceedings of the American School Health Association 77<sup>th</sup> National School Health Conference, October 15-19, 2003, El Paso, TX.

**Olvera, N.** Raising Children in a Multicultural Environment (March 2004), Keynote speaker. Presented at the annual ADVANCE Head Start Parent Conference, Houston Texas.

Pedersen, P.M., Myers, **Whisenant, W.**, & Polite (2004, January) Undergraduate and graduate educational positions in sport management: An examination of professional announcements and employment. Paper presented at the 2004 National Association for Physical Education in Higher Education (NAPEHE) Conference, Tampa, FL.

**Boling W.** “Importance of Quality of Life Assessment for Health Educators.” Presentation at the Annual Texas Association for Health, Physical Education, Recreation, and Dance, Galveston, TX, 2003.

**Perkins, H.** “The influence of exercise identity and self-efficacy on exercise behavior. Presented at Association for the Advancement of Applied Sport Psychology meeting in Philadelphia, PA, October, 2003.

**Rorschach, A.** "Nutrition for Your Life: The Fad Diet Conundrum" presented to the Greater Houston Dental Association, November, 2003.

**Layne, C.S., Forth, K.E., Abercromby, A.E., Clarke, M.S.F.** “Using Patterned Stimuli and Muscle Vibration to Modify Neuromuscular Reflexes” - presented at the UH Scholarship and Community Conference - October, 2003.

Steward, S. A., Poston, W.S.C., Haddock, C. K., Reeves, R., **Olvera, N.**, & Foreyt, J. (Oct, 2003). Twelve- and 18-month predictors of weight gain in Mexican American women. North American Association for the Study of Obesity, Ft. Lauderdale, Fl.

**Sharma, S.**, Day, S.R. and Gernand, A. "Knowledge does not predict fruit and vegetable intake among Hispanic adults". The 2003 Graduate and Postgraduate Research Forum for Excellence in Biomedical Research. Houston, TX, November, 2003.

**Whisenant, W.A.** “The Face of Interscholastic Athletic Administrators: Thirty Years After the Passage of Title IX”. Presented at the 5<sup>th</sup> Annual Florida State University Sport Management Conference.

**Gingiss, P.M., Roberts-Gray, C., & Boerm, M.C.** (2003). “Application of a Systems Model for Evaluation of Community Capacity and Infrastructure for Program Implementation and Sustainability.” Houston, TX: University of Houston. Proceedings of the 12<sup>th</sup> World Conference on Tobacco or Health, August 3-8, 2003, Helsinki, Finland.

**Boling W., Laufman L., Lynch G.R., Weinberg A.D.** “Increasing Mammography Screening Through Inpatient Education.” Presentation at the Annual Meeting of the American Association for Cancer Education, Little Rock, AZ, 2003.

**Zapalac, R. and Pease, D.** Investigating burnout in high school basketball coaches from a reversal theory perspective. Presented at Association for the Advancement of Applied Sport Psychology meeting in Philadelphia, PA, October, 2003.

## FACULTY PRESS

**Foreman, F.** was featured in the Houston Chronicle's June 1, 2004 issue discussing safe sex.

**Pearson, D.W.** was featured in the Houston Chronicle's December 17, 2003 issue discussing Willie Thomas, famous rodeo legend.

The **Tiger Study** was also on local television news on Channel 2: Health beat segment on September 5, 2003, and on Channel 11 as a regular news feature on October 7, 2003.

**Pearson, D.W.** Interviewed by KPRC-TV, Channel 2 about Rodeo Hall of Fame inductee Willie Thomas.

**Bush, J.A.** Featured in an article about the TIGER study in UH Campus News – March 11, 2004.

**Bloom, J.B.,** was quoted extensively in an article in the Houston Chronicle about hot weather activity, June, 2004.

The **Tiger Study** was featured in the UH Campus News on March 11, 2004.

**Pearson, D.W.** Quoted in the Houston Chronicle This Week section, February 26, 2004.

The **LIP lab opening** was reported on in the February UH Alumni magazine.

The **Discover U program** featured in the Texas Center Medical News.

**Layne, C.S., Clarke, M.S.F.** Interviewed by the British Broadcasting Corporation concerning their work with spaceflight countermeasures.

**Pearson, D.W.** Featured in a article about rodeo history and culture in the UH Campus News, March 11, 2004.

**Whisenant, W.** Quoted in the Treasure Coast Business Journal (July 14, 2004). Summertime sparks special sports activities.

**Smith, D.W.** Featured in the June UH Alumni magazine for his community work.

On Sunday August 25, 2003, the Houston Chronicle ran a front page story about the **Tiger Study**. Variations of this story appeared in the Dallas Morning News and the San Antonio Express News during the next week.

**Pearson, D.W.** Quoted in the New York Times, March 1, 2004.

## FACULTY KUDOS

**Boling, W.** Elected to Board of Commissioners, National Commission for Health Education Credentialing, Inc. (2003-2005).

**Pearson, D.W.** received a financial gift (\$200.00) to support HHP activities and two courtesy vehicles from Gulfgate Dodge to transport students and faculty to the recent TAHPERD Convention in Galveston, TX.

**Whisenant, W.** created the Center for Minority Leadership in Sport Management, a Texas nonprofit corporation (IRS classification as a Public Charity with 501(c)(3) status). The NPO was created to support the professional development and certification of sport administrators and coaches in Texas high schools. Advisory Board members include: **D. Pearson** (University of Houston), **W. Boling** (University of Houston), Vicki Hallman (AD Del Valle ISD), Kelly Reeves (AD Round Rock ISD), Augusto Rodriguez (Houston ISD). Board of Directors: **W. Whisenant** (University of Houston), P. Pedersen (Rinker School of Business, Palm Beach Atlantic University), G. Bozeman (Hewitt Associates).

**Gingiss, P.M.** Review Panel Member: National Institutes of Health: Small Business Innovation Research Grant Program. Addictive Services and Youth Intervention Programs Study Section. Washington, D.C., July, 2004.

**Boling, W.** was appointed as an Adjunct Assistant Professor, University of Alabama Graduate Studies, Tuscaloosa, AL.

**Pearson, D.W.** was elected to the North American Society for the Sociology of Sport (NASSS), Sociology of Sport Journal Award Committee 2003-2004.

**Whisenant, W.**'s work on Organizational Justice is being cited in Greenberg & Colquitt (Eds). Handbook of Organizational Justice. Mahwah, NJ: Lawrence Erlbaum Associates.

**Bode, S.** received an FDIP grant for \$4,000 for the development of Medical Nutrition Therapy software.

**Bloom, J.** Selected to the "Get Lean-Houston" Board of Directors.

**Gingiss, P.M.** Review Panel Member: National Institutes of Health: Small Business Innovation Research Grant Program. At-Risk Children and Parent Training Study Section. Washington, D.C., July, 2004.

**Boling, W.** Appointment as Adjunct Assistant Professor, Department of Medicine, Baylor College of Medicine (2004).

**Clarke, M.S.F.** and Feedback, D.L. United States Patent - Directional Acceleration Vector-Driven Displacement of Fluids (DAVD-DOF) - US 6,743,632 B2 June 1, 2004.

**Whisenant, W.** completed Six Sigma Green Belt training - Hewitt Associates.

**Bloom, J.** Participated in a Health Fair at ConocoPhillips – August, 2004.

**Pearson, D.W.** was elected to the Texas Association for Health, Physical Education, Recreation, and Dance (TAHPERD), Chair, VP Elect Nominating Committee 2003-2004.

**Layne, C.S.** Panel Member: National Aeronautics and Space Administration (NASA) Muscle and Exercise Review Panel, Washington, D.C., August, 2004.

The **Dietetic Internship** program received 17% of the total number of students across the country who applied for acceptance to an accredited internship program.

**Olvera, N.** Dorothy Caram Commitment to Leadership Award, Project Blueprint, United Way, 2003.

**Boling, W.** Pre-Symposium Workshop Committee Chair: Quality of Life and End of Life Issues in Minority and Underserved Cancer Populations.

**Boling, W.** Invitation to serve as a Houston delegate at the American International Health Alliance (AIHA) Sakhalin-Houston Partnership Best Practice/Dissemination Conference in Sakhalin, Russia. This conference concludes a series of Partnership activities and exchange visits over the past three years between delegates from Korsakov, Yuzhno-Sakhalinsk, and Dolinsk clinics, schools, and other public health venues.

**Rorschach, A.** served as a reviewer of the textbook Nutritional Science: An Integrated Approach

**Whisenant, W.** (2003, November) *Title IX vs Title VII: A lack of diversity off the field in Texas high school sports*. Faculty Research Opportunity Awards (\$4000).

**Wolinsky, I.** gave lectures in sports nutrition at Harokopio University, Athens, Greece, May, 2004.

**Boling, W.** Faculty Mentor of UH students who have received full funding to attend the Intercultural Cancer Council 9<sup>th</sup> Biennial Symposium on Minorities, the Medically Underserved and Cancer: Awareness to Action, The Unequal Burden of Cancer.

## STUDENT KUDOS

Doctoral students **Andrew Abercromby** and **F. Jay Haran** were featured in a UH news release for receiving spots in the National Space Biomedical Research Institute Program.

**Danny Hughes** was awarded a College of Education Dissertation Research Award.

**Heather George, Michael Saltsman, and Christi Atkinson** successfully completed the MED comprehensive examinations.

**Stuart M.C. Lee** (Ph.D. student in physiology) was the recipient of the 2003 Wyle Life Sciences Distinguished Service Award.

**Veronica Avolevan's** and **Denise Mosley's** (HHP undergraduate students) fellowship proposals were accepted at MD Anderson Cancer Center to work on a physical activity intervention with breast-cancer survivors under the supervision of Dr. Karen Basen-Engquist.

Sport psychology graduate students **Danny Hughes, Ryan Zapalac, Stephanie Jevas, Dean Culpepper,** and **Heidi Perkins** have made presentations during the fall semester for the Tina Garrison Tennis Foundation.

**LaSondra Barnes** (Health student and HHP work study) "Influence of Hydralazine Treatment and Exercise Training on Body Composition in Obesity". Poster presentation at the 2003 Annual Biomedical Research Conference for Minority Students, San Diego, October, 2003.

These students attended the 5<sup>th</sup> Annual Florida State University Sport Management Conference with **Dr. Whisenant: Stormy Smith, Brook Dabbs, Neely Cupit, Adrian Rawls, Gavin Allison, Sarah Humphries, Tyawna Jamison.**

Liza Colgrove Gorman<sup>1</sup>, Jason Santamore<sup>1</sup>, Jeffrey Martin<sup>1</sup>, **Meghan Everett<sup>2</sup>**, Lauren R. Zwicky<sup>1</sup>, Michael J. Ormsbee<sup>3</sup>, Paul J. Arciero<sup>1</sup>, Roger M. Martin-Pressman<sup>1</sup>. Body Fat Distribution and Total Cholesterol is Influenced by Energy Expenditure of Exercise and Macronutrient Composition in Middle-Aged Men and Women following a 12wk Intervention. Presented at Federation of American Societies for Experimental Biology (FASEB), April, 2004.

**Culpepper, D., Jevas, S., and Perkins, H.** (2004) Predicting symptoms of depression based on self-reported levels of physical activity. Research Quarterly for Exercise and Sport, Vol. 75, No. 1 Supplement, 89 and presented at AAHPERD National Convention & Exposition, New Orleans, LA.

**Forth, K.E. and Layne, C.S.** Spatial and temporal mechanical foot stimulation parameters influence neuromuscular responses in the lower limbs. Sigma Xi Student Research Day, University of Houston, April. 2004.

**Michelle Madron**, undergraduate HHP student, was accepted into physical therapy school at Pitt and Duke.

**Brittney Dye** was accepted into Langston, Oklahoma (OSU) physical therapy school.

**Ryan Zapalac** was hired as a visiting lecturer at Rice University.

**Jay Haran** and **Andrew Abercromby**, HHP doctoral students, were featured in several articles about their summer internship at NASA.

**Caroline Roffidal**, Nutrition undergraduate, was accepted into the Texas Woman's University dietetic internship program.

**Yusra Al-Qaisi**, Nutrition undergraduate, was accepted into the Sam Houston State University dietetic internship program.

**Stephanie Jevas** was hired as an assistant professor at East Carolina State.

**Yulia Pakhalina**, Sport Administration undergraduate, is competing in the Olympics this summer.

## OUTSTANDING STUDENTS AND SCHOLARSHIP AWARDEES

### COE Awardees

- Robert and Elizabeth Houston – **Andrew Abercromby**
- Barry C. Pelton – **David Zambrano**
- Irene Smith Buckner – **Rhonda Scherer**
- Mary Louise White – **Jennifer Espinosa** and **Shayvonne Davis**

### Department Awardees

- Outstanding Undergraduate in Health - **Bich N. Tran**
- Outstanding Undergraduate in Exercise Science - **Sarah Flood** and **Crystal Ward**
- Outstanding Undergraduate in Sports Administration - **Sarah Humphries**
- Outstanding Undergraduate in Movement & Sport Studies - **Carl Jones** and **Charla Reynolds**
- Outstanding Undergraduate in Nutrition Studies - **Jennifer Nagel** and **Laura Baldwin**
- Outstanding Graduate Student - **Ryan Zapalac**