

VITAE**James W. Yates****ADDRESS**

University: Kinesiology and Health Promotion Department
100 Seaton Building
University of Kentucky
Lexington, Ky 40506-0219

EDUCATION

Ph.D. The Pennsylvania State University (1980)
University Park, PA 16802
Major - Physical Education: Specialty -
Exercise Physiology

M.S. University of Kentucky (1977)
Lexington, KY 40508
Major - Physical Education

B.A. University of Kentucky (1973)
Lexington, KY 40508
Major - Physical Education and Mathematics

PROFESSIONAL EXPERIENCE

(2002-2006) Director of Graduate Studies
Kinesiology and Health Promotion
University of Kentucky

(1996 - present) Associate Professor, Director
Exercise Physiology Lab
Kinesiology and Health Promotion
School of Education
University of Kentucky

(1993 - 1996) Professor
Exercise Physiology Lab
School of Education
University of Louisville

(1985 to 1993) Associate Professor
Exercise Physiology Laboratory
University of Louisville

(1980 - 1985) Assistant Professor
Exercise Physiology Laboratory

University of Louisville

Associate in Department of Industrial Engineering
Center for Ergonomics

Responsibilities include teaching in both graduate and undergraduate Physical Education, Physical Therapy and Exercise Physiology Departments, helping conduct adult fitness programs and service contracts. Conducting intra- and extramurally sponsored research projects.

1976-1980 Graduate Research Assistant at the Human Performance Laboratory (The Pennsylvania State University) sponsored by grants from the Bureau of Mines. Projects included work in environmental physiology, respiratory physiology, hypobaric physiology, cooling vest studies and rescue breathing apparatus studies. Supervisor - Eliezer Kamon

During this same time period I participated in consulting projects for Eastman Kodak Company and Peabody Coal Company. Helped organize and conduct ergonomic workshop for industrial companies. Participated in Executive Management stress testing program. Director - Karl Stoedefalke. Participated in Continuing Education Workshops sponsored by The Pennsylvania State University.

1975-1976 Graduate Teaching Assistant at the University of Kentucky; responsibilities included teaching activity classes and laboratory assistant in Kinesiology.

1973-1975 Junior High School Teacher Westport High School 8100 Westport Road, Louisville, KY 40222. Taught mathematics and physical education; coached football, wrestling and baseball.

PROFESSIONAL SOCIETIES MEMBERSHIPS

American College of Sports Medicine (ACSM), 1978 to present
Southeast Chapter American College of Sports Medicine (SEACSM), 1982 to present
American Alliance for Health, Physical Education, Recreation and Dance, 1972 to 1995
Kentucky Association for Health, Physical Education, Recreation and Dance, 1980 to present
Phi Kappa Phi Honor Society, elected 1980
International Foundation for Industrial Ergonomics and Safety Research, 1990 to 1998

HONORS AND AWARDS

Phi Kappa Phi Honor Society, 1980
Fellow, American College of Sports Medicine, 1985
Presidents Honor Award, Kentucky AHPERD, 1988
Distinguished Service Award, Kentucky AHPERD, 1993
Who's Who Among America's Teachers, 2006/2007

PUBLICATIONS: Manuscripts

Symons, T.B., J.L. Clasey, D.R. Gater and **J.W. Yates**. "The effects of deep heat as a preventative mechanism on delayed onset muscle soreness," J. Strength Cond. Res. 18(1), 155-161, 2004.

Bellew, J.W., J.W. Yates, D.R. Gater and J. Clasey. "Explosive force production in older adults following a traditional strength training program," J. Geriatric Phys. Therapy, 26(3): 9-13, 2003.

Sawyer, P.C., T.L. Uhl, C.G. Mattacola, D.L. Johnson, and **J.W. Yates**. "Effects of moist heat on hamstring flexibility and muscle temperature," J. Strength Cond. Res. 17(2):285-290, 2003.

- Bellew, J.W., **J.W. Yates**, and D.R. Gater. "The initial effects of low-volume strength training on balance in untrained older men and women," J. Strength Cond. Res., 17:121-128, 2003.
- Lenn, J., T. Uhl, C. Mattacola, G. Boissonneault, **J. Yates**, W. Ibrahim, and G. Bruckner. "The effects of fish oil and isoflavones on delayed onset muscle soreness," Med. Sci. Sports, 34:1605-1613, 2002.
- Bellew, J.W. and **J.W. Yates**. "Concentric versus eccentric strength of the quadriceps femoris in elderly and young females," J. Strength Cond. Res., 14:419-425, 2000.
- Swank, A.M., S. Condra, and **J.W. Yates**. "Effect of long term tennis participation on aerobic power, body composition, muscular strength, flexibility and serum lipids," Sports Med. Training and Rehab. 8(2):99-112, 1998.
- Swank, A.M., K. Gutsell, **J.W. Yates**, B. Tabler, and K. Kleinstaubler. "Effect of socioeconomic status on fitness and health of volunteer fire fighters," KAHPERD Journal, 33(1): 31-34, 1997.
- Godly, A. and **J.W. Yates**. "Dietary protein needs and athletic performance," KAHPERD Journal, 33(1): 20-24, 1997.
- Windmill, I.M., M. Vittitow, **J.W. Yates**, and D.R. Cunningham. "The effect of exercise and noise exposure (music) on hearing," Journal of the American Academy of Audiology, 5:343:348, 1994.
- Yates, J.W.**, G. Anderson, and W. Howey. "Effects of high frequency lifting on blood lactate and oxygen consumption," Advances in Industrial Ergonomics and Safety V, eds. R. Nielsen and K. Jorgensen, Taylor and Francis, pp. 217-224, 1993.
- Karwowski, W., **J.W. Yates** and N. Pongpatana. "Ergonomic guidelines for design of passenger car trunk," Automotive Ergonomics, eds. Peacock and Karwowski, Taylor and Francis: Washington, D.C. pp. 117-139, 1993.
- Yates, J.W.** and W. Karwowski. "An Electromyographic Analysis of Seated and Standing Lifting Tasks," Ergonomics, 35:889-898, 1992.
- Karwowski, W., C. Shumate, **J.W. Yates**, and N. Pongpatana. "Discriminability of load heaviness: implication for psychophysical approach to manual lifting," Ergonomics, 35:729-744, 1992.
- Karwowski, W., N. Pongpatana, and **J.W. Yates**. "Perception of load heaviness and EMG quantification of muscular responses in manual lifting: A pilot study," Advances in Industrial Ergonomics and Safety IV, ed. S. Kumar, Taylor and Francis, pp. 645-650, 1992.
- Garg, A., S.H. Rodgers, and **J.W. Yates**. "The physiological basis for manual lifting," Advances in Industrial Ergonomics and Safety IV, ed. S. Kumar, Taylor and Francis, pp. 867-874, 1992
- Yates, J.W.** and S. Hertel. "Computer Based Analysis of EMG Signals: Design and Use of an RMS-To-DC Converter," in Computer-Aided Ergonomics, eds. W. Karwowski, A. Genaidy, and S.S. Asfour, (Taylor and Francis), pp. 490-98, 1990.
- Yates, J.W.**, K. Pickering, and W. Karwowski. "High Frequency Lifting and Blood Lactate Production," Trends in Ergonomics/ Human Factors VI, ed. B. Das, North-Holland: Amsterdam, pp. 643-650, 1990.
- Yates, J.W.**, A.M. Swank, R.D. Fell, and L.B. Gladden. "Legislative Health and Fitness Day, 1988," KAHPERD Journal, 25(2): 3-5, 1989.

- Karwowski, W., C. Rabeneck, N. Pongpatana, and **J.W. Yates**. "Weight Discriminability and Subjective Assessment of Load Heaviness: A pilot Study," Proceedings of Human Factors Society 33rd Annual Meeting, Denver, pp. 657-661, 1989.
- Yates, J.W.** and W. Karwowski. "A Comparison between Isokinetic Trunk Strength and Standard Static Strength Tests," Trends in Ergonomics/Human Factors V, ed. F. Aghazadeh, North-Holland: Amsterdam, pp. 803-810, 1988.
- Yates, J.W.** and W. Karwowski. "Maximum Acceptable Lifting Loads during Seated and Standing Work Positions," Applied Ergonomics, 18:239-243, 1987.
- Yates, J.W.**, J.T. Kearney, M. Noland, and W.M. Felts. "Recovery of dynamic muscular endurance," European Journal of Applied Physiology, 56:662-667, 1987.
- Yates, J.W.** "Comments on Using Electromyogram Signals," Research Quarterly - Dialogue, 58:195-196, 1987.
- Karwowski, W. and **J.W. Yates**. "Reliability of the psychophysical approach to manual lifting of liquids by females," Ergonomics, 29:237-248, 1986.
- Karwowski, W., **J.W. Yates**, and N. Pongpatanasuegsa. "Prediction Models for Maximum Acceptable Loads while Sitting at a Workbench," Trends in Ergonomics/Human Factors III, ed. W. Karwowski, North-Holland: Amsterdam, pp. 775-783, 1986.
- Karwowski, W., A. Mital, and **J.W. Yates**. "Additivity of static and dynamic strength of males," Proceedings of the Ninth Congress of the International Ergonomics Association, pp. 724-726, 1985.
- Gladden, L.B., **J.W. Yates**, R.W. Stremel, and B.A. Stamford. "Gas exchange and lactate anaerobic thresholds: Inter- and Intraevaluator agreement," Journal of Applied Physiology, 58(6):2082-2089, 1985.
- Karwowski, W. and **J.W. Yates**. "The effect of time in the psychophysical study of the maximum acceptable amounts of liquid lifted by females." Proceedings of the Human Factors Society - 28th Annual Meeting, pp. 586-590, 1984.
- Yates, J.W.**, T.J. Koen, D.S. Semenick, and M.M. Kuftinec. "Effect of a mandibular orthopedic repositioning appliance on muscular strength." Journal of the American Dental Association, 108:331-333, 1984.
- Yates, J.W.**, L. Bruce Gladden and Mary K. Cresanta. "Effect of prior dynamic leg exercise on static effort of the elbow flexors," Journal of Applied Physiology, 55(3): 891-896, 1983.
- Yates, J.W.** and E. Kamon. "A comparison of peak and constant angle torque-velocity curves in fast and slow-twitch populations." European Journal of Applied Physiology, 51: 67-74, 1983.
- Gladden, L.B. and **J.W. Yates**. "Lactic acid infusion in dogs: effects of varying infusate pH." Journal of Applied Physiology, 54(5): 1254-1260, 1983.
- Yates, J.W.**, E. Kamon, S. H. Rodgers and P.C. Champney. "Static lifting strength and maximal isometric voluntary contractions of back, arm and shoulder muscles." Ergonomics, 23(1): 37-47, 1980.
- Kamon, E., and **J.W. Yates**. "Endurance recovery from dynamic muscular activity." Proceedings of the Human Factors Society - 23rd Annual Meeting, pp. 214-218, 1979.

PUBLICATIONS: CHAPTERS IN BOOKS

Yates, J.W. "Physical Fitness and Weight Control," *Cancer of the Breast*, 3rd Ed. eds. W. Donegan and J. Spratt., W.B. Saunders: Philadelphia, pp. 768-777, 1988.

Yates, J.W. "Physical Fitness and Weight Control," *Cancer of the Breast*, 4th Ed. eds. W. Donegan and J. Spratt., W.B. Saunders: Philadelphia, pp. 809-821, 1995.

Yates, J.W. "Physical Fitness and Weight Control," *Cancer of the Breast*, 5th Ed. eds. W. Donegan and J. Spratt., W.B. Saunders: Philadelphia, pp. 225-247, 2002.

BOOKS EDITED

Karwowski, W. and J.W. Yates. *Advances in Industrial Ergonomics and Safety III*, Proceedings of the Annual International Industrial Ergonomics and Safety Conference, 1991.

PUBLICATIONS: ABSTRACTS

Pittsley, J.L. and J.W. Yates. "Central and peripheral components of oxygen consumption improvement via aerobic training in premenopausal women," *Med. Sci Sports Exercise*, 36(5): S252, 2004.

Yates, J.W., M. Cullum and J. Pittsley. "Validation of a portable, indirect calorimeter for the measurement of resting metabolic rate," *Med. Sci Sports Exercise*, 36(5): S247, 2004.

Cullum, M., J. Pittsley and J.W. Yates. "The variability of resting metabolic rate measurements," *Med. Sci Sports Exercise*, 36(5): S247, 2004.

Cannioto, R.A. and **J.W. Yates**. "The relationship between excessive exercise, exercise mode and gender," *Med. Sci Sports Exercise*, 35(5): S139, 2003.

Hutchison, D.J. and **J.W. Yates**. "Performance analysis of an incline treadmill sprinting program versus a ground-based sprinting program," *Med. Sci Sports Exercise*, 35(5): S98, 2003.

Sawyer, P., Uhl, T.L., **Yates, J.W.**, Mattacola, C.G., Johnson, D.L. Effects of muscle temperature on hamstring flexibility. *Journal of Athletic Training*, 37(2)supplement:S-103, 2002.

Symons, T.B., J.L. Clasey, D. Gater, D. Pascoe and **J.W. Yates**. "The Effects of Deep Heating as a Preventative Mechanism of Delayed Onset Muscle Soreness," ACSM Annual Meeting, Indianapolis, June, 2000.

Gater, D.R., **J.W. Yates**, and J.L. Clasey. "Relationship between Glucose Intolerance and Body Composition in Spinal Cord Injury," ACSM Annual Meeting, Indianapolis, June, 2000.

Walden, S.L. and **J.W. Yates**. "Physical and Performance Traits of Female Soccer Players of Different Competitive Levels," ACSM Annual Meeting, Indianapolis, June, 2000.

Cullum, M.G., H.G. Welch, and J.W. Yates. "Evaluation of an automated metabolic cart compared to Douglas bag measurement of VO₂," *Med. Sci. Sports Exer.* 31(5):S302, 1999.

Whatley, S.W., M. Florence, L.B. Ransdell, J.W. Yates, and J.L. Clasey. "Validation of five bioelectrical impedance analyzers (BIA) used to estimate body composition in young adults," *Med. Sci. Sports Exer.* 31(5):S203, 1999.

Finley, J.L. and J.W. Yates. "The effect of upper body support on heart rate and VO₂ during stairclimbing," *Med. Sci. Sports Exer.* 30(5):S58, 1998.

Godly, A. and J.W. Yates. "Effects of creatine supplementation on endurance cycling combined with short, high-intensity bouts," *Med. Sci. Sports Exer.* 29(5):S251, 1997.

Brislin, G.A., and J.W. Yates. "Effects of cold compression on exercise-induced muscle soreness (EIMS)," Med. Sci. Sports Exer., 24(5): S54, 1992.

Yates, J.W. and D. Semenick. "Effects of exercise-induced muscle soreness (EIMS) on EMG" Med. Sci. Sports Exer. 23(4): S145, 1991.

Yates, J.W., and W.J. Armbruster. "Speed Specific Eccentric Training and the Torque-Velocity (T-V) Curve," Med. Sci. Sports Exer., 22(2): S9, 1990.

Yates, J.W., and W.J. Armbruster. "Concentric and Eccentric Strength Loss and Recovery Following Exercise-Induced Muscle Soreness (EIMS), International Journal Sports Medicine, 11(5): 403, 1990.

Gladden, L.B., J.W. Yates, and B.L. Golden. "VO₂ kinetics during twitch contractions of in situ dog muscle." Med. Sci. Sports Exer. 16(2): 177, 1984.

Yates, J.W., and L.B. Gladden. "Computerized VO₂ kinetics of in situ dog gastrocnemius muscle." Med. Sci. Sports Exer., 16(2):141, 1984.

Gladden, L.B. and J.W. Yates. "Variations in lactic acid infusate pH: effects on acid-base status in dogs," Fed. Proc. 42:733, 1983.

Yates, J.W., L.B. Gladden, and M.K. Cresanta. "Effects of prior exercise on muscle contractile properties and static endurance," Med. Sci. Sports 15(2): 104, 1983.

Gladden, L.B., J.W. Yates, R.W. Stremel, and B.A. Stamford. "Agreement between gas exchange and lactate anaerobic threshold determinations among independent investigators. Med. Sci. Sports 15(2): 121, 1983.

Stremel, R.W., J.W. Yates, L.B. Gladden and B.A. Stamford. "Kinetics of blood lactate appearance during constant load work." The Physiologist 24(4): 63, 1981.

Gladden, L.B., J.W. Yates, R.W. Stremel and B.A. Stamford. "Kinetics of blood lactate appearance during a progressive incremental exercise test." The Physiologist 24(4): 63, 1981.

Yates, J.W. and E. Kamon. "The effects of slow and fast dynamic contractions on the torque-velocity relationship." Fed. Proc. 40(3): 616, 1981.

Yates, J.W., E. Kamon, and P. Cavanagh. "Muscle fiber composition and the torque-velocity relationship." Med. Sci. Sports. 13(2): 87, 1981.

PRESENTATIONS

National and State

Wismann, J., S.V. Baker, and **J.W. Yates**, "Comparison of the Vacu-med motorized syringe with the Douglas bag method in measuring ventilation, VO₂, and VCO₂, presented at the 2006 American College of Sports Medicine Annual Meeting, Denver, May 31, 2006.

Baker, S., J. Wismann, and **J.W. Yates**, "Comparison of three metabolic carts using a metabolic calibrator, presented at the 2006 American College of Sports Medicine Annual Meeting, Denver, June 2, 2006.

Wilson, M., N.B. Jones, C.G. Berger and **J.W. Yates**, "Moderate static stretching does not influence torque production of the knee flexors," presented at the 2006 American College of Sports Medicine Annual Meeting, Denver, May 31, 2006.

- Jones, N.B., M. Wilson, C.G. Berger and **J.W. Yates**. "Moderate static stretching does not influence torque production of the knee flexors," presented at the Southeast American College of Sports Medicine Annual Meeting, Charlotte, NC, Feb. 10, 2006.
- Pittsley, J.L. and **J.W. Yates**. "Central and peripheral components of oxygen consumption improvement via aerobic training in premenopausal women," presented at the 2004 American College of Sports Medicine Annual Meeting, Indianapolis, June 4, 2004.
- Yates, J.W.**, M. Cullum and J. Pittsley. "Validation of a portable, indirect calorimeter for the measurement of resting metabolic rate," presented at the 2004 American College of Sports Medicine Annual Meeting, Indianapolis, June 4, 2004.
- Cullum, M., J. Pittsley and **J.W. Yates**. "The variability of resting metabolic rate measurements," presented at the 2004 American College of Sports Medicine Annual Meeting, Indianapolis, June 4, 2004.
- Yates, J.W.**, K. Demling-Castelluzzo and J. Rutherford. "How to get a graduate assistantship," presented at the Kentucky Association for Health, Physical Education, Recreation and Dance Annual Convention, Nov. 7, 2003.
- Cannioto, R.A. and **J.W. Yates**. "The relationship between excessive exercise, exercise mode and gender," presented at the 2003 American College of Sports Medicine Annual meeting, San Francisco, May 29, 2003.
- Hutchison, D.J. and **J.W. Yates**. "Performance analysis of an incline treadmill sprinting program versus a ground-based sprinting program," presented at the 2003 American College of Sports Medicine Annual meeting, San Francisco, May 28, 2003.
- Sawyer, P., Uhl, T.L., **Yates, J.W.**, Mattacola, C.G., Johnson, D.L. Effects of muscle temperature on hamstring flexibility. *Journal of Athletic Training*, 37(2)supplement:S-103, 2002.
- Sawyer, P., Uhl, T.L., **Yates, J.W.**, Mattacola, C.G., Johnson, D.L. Effects of muscle temperature on hamstring flexibility. *Southeast Athletic Trainers Association Annual Meeting*, March 2002.
- Bellew JW, **Yates JW**, Gater DR . "The Effects of Three Months of High Intensity Strength Training on Leg Strength and Rate of Force Development in Older Adults": Combined Sections Meeting of the American Physical Therapy Association. February 23, 2002. Boston, MA.
- Bellew JW, **Yates JW**, Gater DR. "The Effects of Strength Training on Leg Strength and Postural Sway in Untrained Older Men and Women". *Physical Therapy 2002: The Annual Conference and Exposition*. June 6, Cincinnati, OH, 2002.
- Symons, T.B., J.L. Clasey, D. Gater, D. Pascoe and **J.W. Yates**. "The Effects of Deep Heating as a Preventative Mechanism of Delayed Onset Muscle Soreness," ACSM Annual Meeting, Indianapolis, June, 2000.
- Gater, D.R., **J.W. Yates**, and J.L. Clasey. "Relationship between Glucose Intolerance and Body Composition in Spinal Cord Injury," ACSM Annual Meeting, Indianapolis, June, 2000.
- Walden, S.L. and **J.W. Yates**. "Physical and Performance Traits of Female Soccer Players of Different Competitive Levels," ACSM Annual Meeting, Indianapolis, June, 2000.
- Yates, J.W.** "Aerobic fitness and flexibility," invited talk at Off-Season and Conditioning for High School and College-Age Athletes Seminar sponsored Highlands Regional Medical Center, May 23rd, 1999.
- Cullum, M.G., H.G. Welch, and **J.W. Yates**. "Evaluation of an automated metabolic cart compared to Douglas bag measurement of VO₂," poster presentation at 46th Annual ACSM Meeting, Seattle, WA, June 4th, 1999.

- Whatley, S.W., M. Florence, L.B. Ransdell, **J.W. Yates**, and J.L. Clasey. "Validation of five bioelectrical impedance analyzers (BIA) used to estimate body composition in young adults," poster presentation at 46th Annual ACSM Meeting, Seattle WA, June 3rd, 1999.
- Yates, J.W.**, H. Welch and J.T. Kearney. "Metabolic carts: are you getting the data you paid for?" Symposium presented at 46th Annual ACSM Meeting, Seattle, WA, June 2, 1999.
- Yates, J.W.**, J.L. Clasey and L. Ransdell. "A current look at eating disorders, osteoporosis, and secondary amenorrhea: the female triad," Symposium presented at 1998 KAHPERD Convention, Nov. 7, 1998.
- Yates, J.W.** and J.L. Clasey. "Exercise therapy for weight reduction," Multidisciplinary Approach to Weight Reduction Symposium, sponsored by Highland Regional Medical Center, Jenny Wiley State Park, Aug. 22, 1998.
- Finley, J.L. and **J.W. Yates**. "The effect of upper body support on heart rate and VO₂ during stairclimbing," Med. Sci. Sports Exer. Poster presentation at 45th Annual ACSM Meeting, Orlando, FL, June 3rd, 1998.
- Yates, J.W.** "Negative work and muscle soreness," invited seminar presented to Biomedical Engineering Research Group, University of Kentucky, Feb. 27th, 1998.
- Godly, A. and **J.W. Yates**. "Effects of creatine supplementation on endurance cycling combined with short, high-intensity bouts," poster presentation at 44th Annual ACSM Meeting, 1997.
- Swank, A.M., Allen, Schumm, Adams, and **J.W. Yates**. "Aerobic power and cardiovascular risk facotr profile in volunteer firefighters, paper presentation at American Assoc. Cardio. And Pulm. Rehab., 1997.
- Allgeier, J. and **J.W. Yates**, D. Schmitt, and B. Horowitz. "Validity of the Conconi Test in predicting lactate threshold on a bicycle windtrainer," Southeastern American College of Sports Medicine, 23rd Annual Meeting, Lexington, Ky, February 3, 1995.
- Gutgsell, K., A.M. Swank, **J.W. Yates**, B. Tabler, and K. Kelnsteuber. "Fitness and health indicators in volunteer firefighters of two distinct socioeconomic environments," Southeastern American College of Sports Medicine, 23rd Annual Meeting, Lexington, Ky, February 4, 1995.
- Yates, J.W.** "The role of exercise and weight control in cancer prevention," symposium presented at KAHPERD convention, October 28, 1994, Louisville, KY
- Yates, J.W.** "An ergonomic evaluation of the Biodyne hospital bed," presented at the 34th Annual Meeting of the Lucien Brouha Society, September 14, 1994, Dayton, OH
- Crews, T., R. Deere, and **J.W. Yates**. "Physiological, biochemical and blood lipid profile of an elite, male, college, middle-distance runner," presented at the Southern District AAHPERD Convention, January 27, 1994, Nashville, TN
- Brislin, G.A., and **J.W. Yates**. "Effects of cold compression on exercise-induced muscle soreness (EIMS)," Poster Presentation, ACSM Meeting, Dallas, Texas, May 28, 1992.
- Vittitow, M.L., I.A. Windmill, D.R. Cunningham, and **J.W. Yates**. "Influence of physical exercise during noise exposure in susceptibility to temporary threshold shift (TTS)," American Academy of Audiology, 3rd Annual Convention, April 25-28, 1991.
- Yates, J.W.** and D. Semenick. "Effects of exercise-induced muscle soreness (EIMS) on EMG," Poster Presentation, ACSM Meeting, Orlando, Florida, May 30, 1991.
- Yates, J.W.**, K. Pickering, and W. Karwowski. "High frequency lifting and blood lactate levels," Annual International Industrial Ergonomics and Safety Conference Ô90, Montreal, Canada, June 11, 1990.

- Yates, J.W.**, and W.J. Armbruster. "Speed Specific Eccentric Training and the Torque-Velocity (T-V) Curve, Poster Presentation, ACSM Meeting, Salt Lake City, May 22, 1990.
- Yates, J.W.**, and W.J. Armbruster. "Concentric and Eccentric Strength Loss and Recovery Following Exercised-Induced Muscle Soreness (EIMS), SEACSM Meeting, Columbia, SC, Feb. 2, 1990.
- Yates, J.W.** "Eccentric Training: Strength Gains and Muscle Soreness," invited seminar, University of Auburn, Department of Physical Education, Nov. 17, 1989.
- Yates, J.W.**, and W.J. Armbruster. "Rate of Slow (30°/sec) and Fast (180°/sec) Isokinetic, Eccentric Fatigue of the Biceps," 36th Annual KAHPERD Conference, Richmond, Ky, Nov. 11, 1989.
- Armbruster, W.J., and **J.W. Yates**. "Effects of Speed Specific Eccentric Training," 36th Annual KAHPERD Conference, Richmond, Ky, Nov. 11, 1989.
- Semenick, D. and **J.W. Yates**, "Relationship between Muscle Contractile Parameters and Selected Performance Tests," National Strength and Conditioning Association Meeting, Denver, July 1, 1989.
- Yates, J.W.** and W. Karwowski. "A comparison of isokinetic trunk strength with standard static strength tests," Annual International Industrial Ergonomics and Safety Conference '88, New Orleans, June 10, 1988.
- Yates, J.W.**, and L. Shelburne. "What the Physical Educator Should Know About Low Back Pain," 35th Annual KAHPERD Conference, November 12, 1988, Louisville, Ky
- Yates, J.W.**, and W. Karwowski. "An Electromyographic Analysis of Lifting while Sitting vs Standing, 28th Annual Brouha Work Physiology Symposium Jackson, TN. September 7, 1988.
- Yates, J.W.**, and W. Karwowski. "Comparison of Manual Lifting Norms for Standing and Sitting Positions," Annual Industrial Ergonomics and Safety Conference '87, Miami, June 10, 1987
- Yates, J.W.** "Measurement of Oxygen Consumption in Industrial Settings," Kentucky Association for Health, Physical Education, Recreation, and Dance. Frankfort, KY. November 8, 1986.
- Karwowski, W., **J.W. Yates** and N. Pongpatanasuegsa. "Predicting models for maximum acceptable loads lifted while sitting at a workbench," Annual International Industrial Ergonomics and Safety Conference '86, Louisville, Ky, June 12, 1986.
- Yates, J.W.** "Body composition assessment," Kentucky Association for Health, Physical Education, Recreation, and Dance. Louisville, KY, November 14-16, 1985.
- Yates, J.W.**, and W. Karwowski. "Lifting limits from a seated work position," 25th Brouha Work Physiology Symposium, University Park, PA. September 11-13, 1985.
- Yates, J.W.** "Status of the MORA in effecting strength and performance of athletes," Toward Wellness through Exercise and Sports: A Conference for Health Professionals, Ohio State University, Columbus, Ohio. July 29-30, 1985.
- Yates, J.W.**, and W. Karwowski. "The validity of the psychophysical method for determining maximum acceptable lifts," 24th Brouha Work Physiology Symposium, Rochester, NY, 1984.
- Yates, J.W.** "Integrated EMG and mean power frequency changes associated with fatigue." 23rd Brouha Work Physiology Symposium, Hopewell, N.J., 1983

Yates, J.W., T. Koen, D.M. Semenick, and M.M. Kuftinec. "The effect of two mouthpiece devices on maximum arm and leg strength." Kentucky Association for Health Physical Education and Recreation and Dance, Owensboro, KY, 1982.

Yates, J.W. "EMG as a predictor of fatigue." 22nd Brouha Work Physiology Symposium, Lubbock, TX, 1982.

Yates, J.W. "Exercise Physiology: its applications and future." Twentieth Kentucky Junior Science Symposium, Louisville, KY, 1982.

Yates, J.W. "The scientific basis for strength and conditioning programs." Kentucky State Conditioning Clinic, Louisville, KY, 1981.

Yates, J.W. "Women and strength training." Pennsylvania Chapter of the National Association of Girls and Women Sports, Hershey, Pa. 1980.

GRANTS AND CONTRACTS

Funded:

Leukefeld, C., L. Dwoskin, C. Martin and J.W. Yates. "Girls in Drug Abuse Science, funded by Center on Drug and Alcohol Research, 7/01/04 – 6/30/07, \$270,000.

Yates, J.W., J.L. Clasey, D. Gater, and S. Hsiao. "The effects of creatine supplementation on body composition and performance," funded by Experimental and Applied Sciences, Feb. 1999, \$656.00

Clasey, J.L. and J.W. Yates. "In vivo body composition analysis system," Research Equipment and Laboratory Replacement Pool Grant, University of Kentucky, 1998-1999, \$141,000.

Gater, D., J.W. Yates, and J.L. Clasey. "Aerobic exercise intervention on CAD risk profiles in spinal cord injured adults," American Heart Association, Ky Affiliate, 7/1/98 – 6/30/99, \$29,960.

Yates, J.W. and D. Gater. "Replacement of Metabolic Cart," Major Equipment Research Grant, University of Kentucky, May, 1997, \$39,780.

Yates, J.W. and A.M. Swank. "Internship in corporate health," with Semenick and Associates, August 93 - July 94, \$16,289.

Yates, J.W. and A.M. Swank. "Fitness screening of volunteer firefighters," Harrods Creek Fire Department, April 93 - March 94, \$4,000.

Swank, A.M. and J.W. Yates. "Physiological profiles of male senior tennis players: comparison with age-matched controls, United States Tennis Association, \$8,251, Dec. 1993

University of Louisville Graduate Research Council. "Blood lactate levels and high frequency lifting," \$3,000, Nov. 1991 - May, 1992

United States Postal Service. "Ergonomic review of carrier satchels," Total Costs - \$299,720, Collaborative project between the University of Louisville and Texas Tech University, M. Ayoub and W. Karwowski (principle investigators), July, 1992 - June 1993.

General Motors. "Spatial Design Recommendations for Vehicle Trunk Design," \$12,530, June 1, 1988 - August 31, 1988, Co-Investigator with Dr. W. Karwowski (principle investigator).

General Motors. "Evaluation of vertical trunk dimensions," \$14,404, Feb 15, 1987 - June 15, 1987, Co-Investigator with Dr. W. Karwowski (principle investigator).

NSF - EPSCOR Project. "Effects of Acid-Base Status on Skeletal Muscle Function," \$33,053, Co-investigator with Dr. Bruce Gladden (principle investigator).

Farma Foods Inc. "Effects of Dietary Fiber Supplements on weight loss," \$26,325 Sept 1, 1986 - Jan. 31 1987. Co-PI with Dr. R.D. Fell and L.B. Gladden.

National Institute of Occupational Safety and Health. "Maximum Acceptable Lifts in a Sitting Position," May 1, 1986 - April 30, 1987. \$20,693. Dr. W. Karwowski Co-investigator.

University of Louisville Graduate Research Council. "Psycho-physical study of the maximum acceptable loads lifted horizontally and vertically from a sitting position," \$3,820.00, 1984. Co-PI with Dr. W. Karwowski.

American Heart Association, Kentucky Affiliate. "Effects of hyperoxia on static exercise," \$7,155.00, 1984.

University of Louisville Graduate Research Council. "Analysis of bimanual lifting tasks," \$3,000.00, 1983. Co-investigator with Dr. W. Karwowski, (principal investigator)

University of Louisville Graduate Research Council. "EMG power spectral density changes following respiratory alkalosis and acidosis," \$2000.00, 1982, Co-investigator with Dr. L. Bruce Gladden.

Eastman Kodak Company. "The use of EMG as a predictor of fatigue," \$13,300.00, 1982.

University of Louisville Graduate Research Council. "Lactic acid, fatigue and EMG parameters," \$1,980.00, 1981.

Coeb Laboratories, Inc. Use of Whole Body Impedance to Estimate Body Fat, 1985. \$2,200. In collaboration with Drs. Ronald D. Fell, Bryant A. Stamford and L. Bruce Gladden (principal contractor).

Regional Military Entrance Procession Station. Body Fat Evaluation of Military Recruits, 1986. \$5,000. In collaboration with Drs. L. Bruce Gladden and Ronald D. Fell.

Regional Military Entrance Processing Station. Body Fat Evaluation of Military Recruits, 1985. \$1,500. In collaboration with Drs. L. Bruce Gladden and Ronald D. Fell.

Regional Military Entrance Processing Station. Body Fat Evaluation of Military Recruits, 1984. \$1,950. In collaboration with Drs. L. Bruce Gladden and Ronald D. Fell.

Regional Military Entrance Processing Station. Body Fat Evaluation of Military Recruits, 1983. \$1,200. In collaboration with Drs. L. Bruce Gladden and Ronald D. Fell.

Jefferson County Civil Service. Physical Fitness Evaluation Service Contract, 1985. \$10,000. In collaboration with Drs. L. Bruce Gladden, Ronald D. Fell, and Bryant A. Stamford (principal contractor).

Jefferson County Board of Corrections. Physical Fitness Evaluation Service Contract, 1985. \$10,000. In collaboration with Drs. L. Bruce Gladden, Ronald D. Fell, and Bryant A. Stamford. (principal contractor).

Louisville Civil Service. Physical Fitness Evaluation Service Contract, 1984. \$5,000. In collaboration with Drs. L. Bruce Gladden, Ronald D. Fell, and Bryant A. Stamford (principal contractor).

Jefferson County Civil Service. Physical Fitness Evaluation Service Contract, 1984. \$10,000. In collaboration with Drs. L. Bruce Gladden, Ronald D. Fell, and Bryant A. Stamford (principal contractor)

Jefferson County Civil Service. Physical Fitness Evaluation Service Contract, 1984. \$10,000. In collaboration with Drs. L. Bruce Gladden, Ronald D. Fell, and Bryant A. Stamford (principal contractor).

Louisville Civil Service. Physical Fitness Evaluation Service Contract 1983. \$5,000. In collaboration with Drs. L. Bruce Gladden, Ronald D. Fell, and Bryant A. Stamford (principal contractor).

Jefferson County Civil Service. Physical Fitness Evaluation Service Contract, 1981. \$7,500. In collaboration with Drs. L. Bruce Gladden, Ronald D. Fell, and Bryant A. Stamford (principal contractor).

Louisville Civil Service. Physical Fitness Evaluation Service Contract, 1981. \$12,500. In collaboration with Drs. L. Bruce Gladden, Ronald D. Fell, and Bryant A. Stamford (principal contractor).

Other:

Since my arrival at the University of Louisville in 1980, I have been involved with the testing and administration of the Adult Fitness Class in collaboration with other faculty members. This class has generated on the average \$35,000/year in gross income. These monies are used for general supplies and expenses, research equipment, and travel as well as some technician help.

Approved but not funded:

Yates, J.W. and J. McCrory. "Validation of Toyota Worksite Evaluation Tool," Toyota Motor Manufacturing – North American, 8/15/99 – 12/31/00, \$135,376.

Gater, D. and J.W. Yates. "Dose-response exercise intervention in spinal cord injury (SCI): a pilot investigation," Kentucky Spinal Cord and Head Injury Research Board, June, 98 to May, 2001, \$278,907.

Gater, D., J.L. Clasey, and J.W. Yates. "Resting metabolic rate, peak oxygen consumption and body composition in physically active versus sedentary paraplegics: a pilot study proposal," Life Fitness Academy, 7/1/98- 6/30/99, \$5000.

The Deafness Research Institute. "Interaction of exercise and noise exposure on temporary threshold shift," Jan. 1992 to Dec. 1992, \$15,000, Co-investigator, Ian Windmill.

National Institute for Occupational Safety and Health. "Evaluation of draft revisions to NIOSH lifting guide," August, 1992 to June, 1993, \$53,188, W. Karwowski (principal investigator)

United States Tennis Association - "Physiological profiles of male senior tennis players: A cross sectional analysis with age-matched controls," Sept. 1991 - August, 1992, \$15,000 Ann M. Swank (principal investigator)

NIH - National Institute for Occupational Safety and Health. "Lactate Threshold and Maximum Acceptable Lifting Capacity," June, 1989 - May, 1992. \$295,054. In collaboration with L. Bruce Gladden and W. Karwowski.

U.S. Department of Education. "Kentucky Special Recreation Project for the Blind," October, 1984 - September, 1985. \$36,000. In collaboration with Drs. Ronald D. Fell, Bryant A. Stamford, and L. Bruce Gladden (principal investigator).

National Science Foundation. "Effect of Acid-Base Status on Skeletal Muscle Function, Revised," July, 1984 - June, 1987. \$146,348. In collaboration with Dr. L. Bruce Gladden (principal investigator).

National Science Foundation. "Effect of Acid-Base Status on Skeletal Muscle Function," November, 1983 - October, 1986. \$158,237. In collaboration with Dr. L. Bruce Gladden (principal investigator).

National Institute of Health. "pH Effects on EMG and Contractile Properties of Muscle," December, 1983 - November, 1986. \$116,794. In collaboration with Dr. L. Bruce Gladden (principal investigator).

Muscular Dystrophy Association. "Acid-base Changes and Skeletal Muscle Electromyogram, Endurance and Contractile Properties," July, 1983 - June, 1985. \$31,682 In collaboration with Dr. L. Bruce Gladden (principal investigator).

American Lung Association. "Acidosis, Alkalosis, and Muscle Fatigue," July, 1983 - June, 1985. \$26,726. In collaboration with Dr. L. Bruce Gladden (principal investigator).

National Institutes of Health. "Lactic Acid, Intracellular pH and Muscle Contraction," December, 1981 - November, 1984. \$101,058. In collaboration with Dr. L. Bruce Gladden (principal investigator).

American Heart Association, Kentucky Affiliate. "Effect of Static and Dynamic Exercise on Catecholamines," July, 1981 - June, 1982. \$12,334.

OTHER PROFESSIONAL ACTIVITY

Member of committee sponsored by National Institute of Occupational Safety and Health whose task is to review current "Work practices guide for manual lifting," and make recommendations concerning its revision. 1985-1986.

PROFESSIONAL SERVICE

I review manuscripts on a regular basis for the following journals:

- Research Quarterly for Exercise and Sport
- The Journal of Orthopaedic and Sports Physical Therapy
- Journal of Applied Sport Science Research
- International Journal of Industrial Ergonomics

In addition I have served as a guest reviewer for:

- Journal of Applied Physiology
- Medicine and Science in Sports in Exercise
- Ergonomics
- Kentucky Association for Health, Physical Education, Recreation, and Dance Journal

Membership on editorial boards:

- National Strength and Conditioning Association
- The Journal of Orthopaedic and Sports Physical Therapy
- Journal of Occupational Rehabilitation

Abstracts for the American College of Sports Medicine Annual Meeting for the following years: 1984, 1985, 1986, 1991, 1992.

Associate editor for the Southeastern American College of Sports Medicine Newsletter in the Fall, 1984 and Spring of 1985.

Elected positions:

- Chair, Research Section of Kentucky Association for Health, Physical Education, Recreation and Dance, Lexington, KY, 1984.
- Board member, Southeastern College of Sports Medicine, 1984-1985. Chair, Publications Committee
- Board Member, At Large - Kentucky Association of Health, Physical Education, Recreation and Dance, 1987- 1989.
- Southeastern American College of Sports Medicine, Nominations Committee, 1992.
- Southeastern American College of Sports Medicine, Tutorial Session Chair, January 31, 1992

I served as Convention Manager for the following conventions and organizations. This involved coordinating all arrangements for meeting rooms, meal functions, audio-visual needs, and other such functions associated with professional meetings.

- Kentucky Association for Health, Physical Education, Recreation and Dance Convention, Nov. 14-16, 1985 Louisville, KY, approximately 250 attendees
- Annual International Industrial Ergonomics and Safety Conference, Louisville, KY, 1986. approx - 200 attendees
- Annual International Industrial and Ergonomics and Safety Conference Ô91, Tahoe, Nevada, June, 1991. approx. 250 - Southeastern American College of Sports Medicine Convention, attendees Louisville, Ky, Jan. 31- Feb. 2, 1991, approx. 450 attendees

Chair of the organizing committee for the first Legislative Health and Fitness Day. Feb. 27, 1988. This involved organizing over 30 health and physical education professionals in a mass health and fitness screening of legislators and their staff in Frankfort, Ky. On that one day we evaluated over 300 participants for the following: resting blood pressure, body fatness, height, weight, flexibility, health risk appraisal, diet assessment, and blood cholesterol. This was so well received that it was repeated in 1990. I served as a member of the organizing committee that year.

UNIVERSITY SERVICE

- 2006-2007 – Work-Life Advisory Committee
- 2005 – present, Member, University Senate, UK
- 2001 – present, Member, College of Education Library Committee
- 2000 – 2005, Member, University Wide Committee on Environmental Health and Safety, UK
- 1999-2000, Chair, College of Education, Promotion and Tenure Advisory Committee, UK
- 1998-2005, Chair, Ph.D. Exercise Science Program Committee, UK
- 1998-2001, Member, Promotion and Tenure Committee, College of Education, UK
- 1996-2000, Chair, Seaton Center Safety Advisory Committee, UK
- 1996-to 2006, Member Graduate Certification in Gerontology Committee, UK
- 1996-1999, KHP Department Library Liasion, UK
- 1996-2006, KHP Department Advisory Committee, UK
- 1993- 1995, Member of University Human Studies Committee, UofL
- 1993 - Member of Department computer advisory committee
- 1990- 1995, Graduate Studies Coordinator in Exercise Physiology Program
- 1990, Screening Committee for President’s Award for Outstanding Scholarship, Research and Creative Activity
- 1990, Faculty Personnel Committee, Division of Allied Health
- 1989, Search Committee, to fill position in Exercise Physiology
- 1986 - 1987, Chair, Division of Allied Health Grievance Committee
- 1986, Chair Graduate Program Review Committee of Nursing Department
- 1986, Search Committee for position in Office of Computing and Information Services
- 1986 - 1987, Ad Hoc Committee on Academic and Administrative Computing for Division of Allied Health

TEACHING EXPERIENCE

- Kinesiology, 1980-1985
- First Aid, 1980- 1985
- Physical Activity and Health, 1984-1985
- Laboratory Methods in Exercise Physiology, 1985- 2006
- Advance Exercise Physiology, 1988-2006
- Exercise Physiology, undergraduate, fall, 1990, 1992, 1997, 1998, 1999, 2003, 2004, 2006
- Electromyography and Electrocardiography, 1987-1989

- Athletic Conditioning and Training, 1992- 1995
- Health Fitness Instructor, Lab, 1994, 1995

Dissertations Directed

- Pittsley, J.S. "Central and peripheral components of oxygen consumption improvement via aerobic training in premenopausal women," 2004.
- Bellew, J.W. "The effects of three months of high intensity strength training on neuromuscular performance in older men and women, 2000.

Current Students

- Cullum, M. "Effects of age and exercise mode on the immediate and extended post-exercise metabolic rate,"
- Berger, C. "Influence of resistance training on the thermic effect of feeding.
- Wilson, M. "Effects of pre-cooling on running economy.
- Jones, B. "'Post-activation potentiation and force development.

Thesis - Directed

- Baker, S.V. "Comparison of three metabolic carts using an automated calibration unit," 2006
- Wismann, J.A. "Assessment of the accuracy of the vacu-med motorized syringe No. 17053 for ventilation, VO₂ and VCO₂," 2004
- Ruth, W.W. "The effects of creatine monohydrate supplementation on body composition and performance in young males," 2004
- Walden, S.L. "Physical and performance traits of female soccer players of different competitive levels," 2002
- Hutchison, D.J. "Performance analysis of an incline treadmill sprinting program versus a ground-based sprinting program, 2001
- Symons, T.B. "The effects of deep heat as a preventative mechanism of delayed onset muscle soreness," 1999.
- Allgeier, J.B. "Validity of noninvasive, "Conconi-method" bicycle test in identification of lactate threshold," 1996.
- Godly, A. "Effects of creatine supplementation on cycling endurance performance," 1996.
- Brislin, G.A. "The effects of cold compression on delayed onset muscle soreness," 1992.
- Lackney, T.F. "The effect of isolated lumbar extensor strength training on maximum lifting capacity," 1992.
- Armbruster, W.J. "The physiological effects of speed specific eccentric training," 1989.
- Semenick, D.M. "Relationships between static muscle contractile parameters and selected performance tests in male college athletes," 1988.

Thesis - Committee member

- Peitzmeier, G. "Nutritional education for athletes: achieving successful outcomes in the nutritional practices of collegiate," 2003.
- Sawyer, P.C. "The effects of moist heat on hamstring muscle flexibility and muscle temperature," 2001.
- Bryant, V.A. "An ergonomic evaluation of passenger automobile trunk design," 1992.
- Vittitow, M.L. "Influence of physical exercise during noise exposure on susceptibility to temporary threshold shift," 1991.
- Serapiglia, L.A. "Development of a submaximal branching treadmill protocol," 1991.
- Schmitt, D.C. "Functional verification and user opinion of a computer monitored system for performance evaluation and cardiovascular conditioning of cyclists," 1991.
- Walker, T.B. "The effects of caffeine ingestion on substrate metabolism during exercise: A comparison of exercising at different time following ingestion," 1990.
- Pickering, K.A. "Evaluation of an exercise program for senior citizens: Body recall," 1990.
- Pongpatanasuegsa, N. "Additivity of isometric and isokinetic lifting of females in teamwork," 1988.

- Burkhardt III, A.E. "Imprecision of human judgment in the psychophysical assessment of the maximum acceptable weight of lift,"1988.
- Moser, J.C. "Maximal power output during high intensity cycling: Changes in metabolism associated with different points on a load-velocity curve,"1987.
- Wisman, S.E. "An ergonomic analysis of manual mail bag handling: a case study,"1987.
- Mook, K.A. "Effects of acute electrical stimulation on atrophying rat skeletal muscle: A comparison of continuous and intermittent treatments,"1987.
- Morrow III, J.A. "The appearance and disappearance of blood lactate during respiratory alkalosis,"1986.
- Miller, J.F. "Caloric cost of hand and/or ankle weighting during walking,"1985.

COMMUNITY SERVICE

- Girl Scouts Tags Extravaganza Health Fair, May, 2006
- Wellness Crime Scene Investigation, Ask the Expert Panel, May 19, 2006
- Girl Scouts Health and Fitness Fair - April, 1995
- Panel Member - Dietary Prevention of Breast (and Prostate) Cancer - Bellarmine College, April, 1994.
- Sigma Xi Festival of Science for Girl Scouts, March, 1994.
- Sigma Xi Festival of Science for Girl Scouts, March, 1993.
- Annual Health Awareness Workshop, University School of Medicine, August 8, 1994.
- Annual Health Awareness Workshop, University School of Medicine, August 9, 1993.
- Annual Health Awareness Workshop, University School of Medicine, August 10, 1992.
- Lecture to Physical Therapy Class on Human Studies Committee Applications, March 31, 1994.
- Bates Elementary School 5th grade class. Nutrition and Body Fat, Jan., 1994.
- Alpha Epsilon Delta Meeting, September 21, 1993.
- Animal Physiology Class - Exercise Physiology Measurements.
- Lecture to Rehabilitation residents at Frazier Rehab Center, April 4, 1991.
- Lecture to Rehabilitation residents at Frazier Rehab Center, October 4, 1990.
- Taped interview for Jefferson County Medical Society on "Sports Medicine."- Oct. 30, 1991.
- Spoke to Jefferson Manor (a nursing home) nursing and patient therapy staff on "work related injuries."- July 12, 1991.
- Guest on "Dial Diane,"radio show.
- Jefferson Community College - "Is Exercise Worth the Sweat," October, 1985
- Audubon Hospital - "Runners Workshop," March, 1985
- Storer Cable Show - "Health Beat," March, 1985.
- Consumer Concerns - radio talk show - Louisville, Ky., March, 1984.
- Louisville Chapter of Institute of Industrial Eng. - Louisville, Ky., December, 1983.
- Sylvania Ergonomic Class, Lexington, Ky., October, 1983.
- Kentucky Psychological Assoc. - Louisville, Ky., October, 1983.
- Sway Hartel running camp - Louisville, Ky., August , 1983.
- Milton Metz radio talk show - WHAS, Louisville, KY, September, 1982.
- St. Mathews, Kentucky Rotary Club, Louisville, Ky., January, 1981.
- Weight training symposium - St. Anthony Hospital, Louisville, KY, January, 1983.
- Weight training symposium - St. Anthony Hospital, Louisville, Ky., April, 1982.

CONSULTING

- Eastman Kodak Company - Static strength assessment - Used to develop design guidelines within company, 1979.
- Peabody Coal Company - strength and metabolic measurement of various coal mining operations. Supervised by E. Kamon, Penn State University, 1980.
- Eastman Kodak Company - development of manual material lifting standards, 1981
- St. Anthony Hospital - development of underwater weighing system, 1981.

- Norton-Kosair Children's Hospital - development of exercise pamphlet for post partum women, 1984.
- Allied Sporting Goods - development of fitness evaluation program to be used in stores.
- Treyton Oak Towers - organization of exercise program for residents of retirement home. Established guidelines and performed exercise appraisals.
- Methodist Hospital - working as a consulting Ergonomist with Rehabilitation services of the hospital in connection with several local industrial companies. 1986 to present.
- B.F. Goodrich - Ergonomic evaluation of High Pressure Hose Job, report submitted, 1988.
- Crucible Specialty Metals Corp. - Hired by Hancock and Estabrook to provide ergonomic assessment of swing frame grinder job. My report was instrumental in suit being settled out-of-court, 1987.
- Hired as consultant by NIOSH to help in revision of "Work Practices Guide for Manual Lifting," 1990.