

CURRICULUM VITAE

Michael Edward Feltner

PERSONAL INFORMATION

Place and date of birth: Dayton, OH, on August 1, 1959

Marital Status: Married to Michele LeBlanc Feltner (7/26/97)

Children: Madeleine LeBlanc Feltner
Maxwell LeBlanc Feltner

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Natural Science Division
Pepperdine University
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EMPLOYMENT HISTORY

Present position: Professor, Department of Sports Medicine, Pepperdine University, Malibu, CA 90263
Tenure granted in June, 1994.

Previous positions:

Associate Professor, Department of Sports Medicine and Physical Education, Pepperdine University, Malibu, CA 90263 (from August, 1992 to July, 1998)

Assistant Professor, Department of Sports Medicine and Physical Education, Pepperdine University, Malibu, CA 90263 (from August, 1991 to July, 1992)

Visiting Assistant Professor, Department of Sports Medicine and Physical Education, Pepperdine University, Malibu, CA 90263 (from August, 1988 to July, 1991)

Visiting Assistant Professor, Department of Exercise Sciences, University of Southern California, (from January, 1991 to May, 1991 & from January, 1996 to May, 1996)

Visiting Lecturer, Department of Kinesiology and Health Education, The University of Texas at Austin, Austin, Texas 78712 (August, 1987 to May, 1988).

EDUCATIONAL HISTORY

Attended Indiana University 1982-1987, and obtained the Ph.D. degree in Human Performance in November 1987 (Major: Biomechanics; Minor: Computer Science) and the M.S. degree in Physical Education in June 1984.

Attended Miami University (Oxford, OH) 1977-1981, and obtained the B.S. degree in Biological Science Education in May 1981.

Attended the University of Dayton in 1984 and 1985, and took selected Engineering courses.

Ph.D. Dissertation

Three-dimensional segment interactions of the throwing arm during overarm fastball pitching in baseball.
Ph.D. Dissertation. Indiana University, 1987.

Master's Thesis

Kinetic and kinematic parameters of the shoulder joint during the overarm baseball throw. Master's Thesis.
Indiana University, 1984.

Educational Scholarships and Honors

Indiana University Fellowship, January, 1982 - May, 1987.
Research Assistantship at Indiana University, August, 1986 - May, 1987.
Associate Instructorship at Indiana University, August, 1982 - June, 1986.
Miami University Rue Memorial Scholarship, August, 1977 - May, 1981.
Member of Alpha Chi and Phi Eta Sigma Honorary Societies.

TEACHING EXPERIENCE

At Pepperdine University (August, 1988 - Present):

Teaching the following classes:

- Human Anatomy (SPME 230)
- Functional Anatomy and Kinesiology (SPME 400)
- Biomechanics of Human Movement (SPME 425)
- Research in Sports Medicine (SPME 590)
- Principles of Resistance Training (PE 111) - (Coordinate all instructional content)

Taught the following classes:

- Research Methods and Statistics Laboratory (MATH 316L)
- Individualized Exercise (PE 102)
- Weight Training (PE 109)
- Intercollegiate Athletics (PE 201)
- Introduction to Exercise Science (Sports Medicine 110)
- Developed and plan to teach Qualitative Principles of Human Movement (PE 310)

At The University of Texas (August, 1987 - May, 1988):

Taught the following classes:

- Undergraduate Biomechanics (KIN 326)
- Undergraduate Honors Research (KIN 379H)
- Graduate Biomechanics (KIN 395)
- Graduate Lab Course in Biomechanics (KIN 382)

At Indiana University (August, 1982 - June, 1986):

Taught undergraduate kinesiology lab courses.

At Miami University (January, 1981 - May, 1981):

Taught five biological science classes at Edgewood Senior High School, Trenton, OH 45067.

PROFESSIONAL ORGANIZATIONS

American Society of Biomechanics
 American College of Sports Medicine
 International Society of Biomechanics
 International Society of Biomechanics of Sport
 Southwest Chapter of the American College of Sports Medicine (ACSM)
 Research Consortium of the American Alliance for Health, Physical Education, Recreation and Dance
 American Alliance for Health, Physical Education, Recreation and Dance (1986-1996, 1998-1999, 2002-2003)
 Council on Undergraduate Research (1993-1995)
 National Athletic Trainer's Association (1979-1992)

PROFESSIONAL HONORS

Frank R. Seaver Endowed Professorship, Pepperdine University (2000-2005)
 Associate Editor, *Medicine and Science in Sports and Exercise* (2001-present)
 Member Editorial Board, *Journal of Applied Biomechanics* (1999-present)
 President, Seaver College Faculty Association, Pepperdine University (1999-2000)
 President, Biomechanics Interest Group of the ACSM (1998-2001)
 Fellow, American College of Sports Medicine
 Research Fellow, American Alliance for Health, Physical Education, Recreation and Dance
 Golden Key National Honor Society (Honorary member since 1992)

SCHOLARSHIP

PEER-REVIEWED PUBLICATIONS (* denotes an undergraduate student)

- Feltner, M.E.**, E.J. Bishop*, & C.M. Perez* (2004). Segmental and kinetic contributions in vertical jumps performed with and without an arm swing. *Research Quarterly for Exercise and Sport*, 75(3), 216-230.
- Feltner, M. E.**, Fraschetti, D.* & Crisp, R.* (1999) Augmentation of lower extremity muscle force generation via arm motions during vertical jumping. *Journal of Sports Science*, 17, 449-466.
- Feltner, M. E.** & Taylor, G* (1997). Three-dimensional kinetics of the shoulder, elbow and wrist during a penalty throw in water polo. *Journal of Applied Biomechanics*, 13, 347-372.
- Feltner, M. E.** & Nelson, S.T*. (1996). Three-dimensional kinematics of the throwing arm during the penalty throw in water polo. *Journal of Applied Biomechanics*, 12, 359-382.
- Feltner, M.**, MacRae, H.S.H., MacRae, P.M., Turner, N.S.*, Hartman, C.A.*, Summers, M.L.* & Welch, M.D.* (1994). Strength training effects on rearfoot motion in running. *Medicine and Science in Sports and Exercise*, 26(8), 1021-1027.
- Feltner, M.**, MacRae, P.M. & McNitt-Gray, J.L. (1994). Quantitative gait assessment as a predictor of prospective and retrospective falls in community-dwelling older women. *Archives of Physical Medicine and Rehabilitation*, 75, 447-453..
- MacRae, P.M., **Feltner, M.** & Reinsch, S. (1994). The effects of a one-year low intensity exercise program on falls, injury and physical performance in community-dwelling older women. *Journal of Aging and Physical Activity*, 2(2), 127-142.
- Kautz, S.A., **Feltner, M.**, Coyle, E.F. & Baylor, A. (1991). Pedaling technique of elite cyclists in response to varied workloads. *International Journal of Sports Biomechanics*, 7(1), 29-53.

- Coyle, E.F., **Feltner, M.**, Kautz, S.A., Hamilton, M.T., Montain, S.J., Baylor, A.M., Abraham, L.D. & Petrek, G.W. (1990). Physiological and biomechanical determinants associated with elite endurance cycling performance. Medicine and Science in Sport and Exercise, 23(1), 93-107.
- Feltner, M. E.** & Dapena, J. (1989). Three-dimensional interactions in a two-segment kinetic chain. Part I: General model. International Journal of Sports Biomechanics, 5(4), 403-419.
- Feltner, M. E.** (1989). Three-dimensional interactions in a two-segment kinetic chain: Part II: Application to the throwing arm in baseball pitching. International Journal of Sports Biomechanics, 5(4), 420-450.
- Dapena, J. & **Feltner, M. E.** (1989). Influence of the direction of the cable force and the radius of the hammer path on speed fluctuations during hammer throwing. Journal of Biomechanics, 22(6/7), 565-575.
- Dapena, J. & **Feltner, M. E.** (1987). The effects of wind and altitude on the times of 100 meter sprint races. International Journal of Sports Biomechanics, 3(1), 6-39.
- Feltner, M. E.** & Dapena, J. (1986). Dynamics of the shoulder and elbow joints of the throwing arm during a baseball pitch. International Journal of Sports Biomechanics, 2(4), 235-259.

MANUSCRIPTS IN PREPARATION (* denotes an undergraduate student)

- Feltner, M.E.**, E.J. Bishop*, C.M. Perez* & J. Howard*. Musculoskeletal dynamics of the hip and knee during countermovement vertical jumps performed with and without an arm swing. For submission to the Journal of Sports Sciences.
- Feltner, M.E.**, C.M. Perez*, E.J. Bishop* & K. Visconti*. Musculoskeletal dynamics of the knee and ankle during countermovement vertical jumps performed with and without an arm swing. For submission to Medicine and Science in Sports and Exercise.

NON -PEER REVIEWED PUBLICATIONS

- Feltner, M.** (1998). The role of the arms during standing vertical jumps: effects at the trunk and hips. VolleyballUSA, 26(4), 24-26.

PUBLISHED ABSTRACTS (* denotes an undergraduate student)

- Feltner, M.E.** (2003) Free limb motions alter biarticular muscle activity during countermovement vertical jumps. Submitted to Medicine and Science in Sports and Exercise, 35(5).
- Feltner, M.E.**, J.A. Howard*, K. Visconti*, E.J. Bishop* & C.M. Perez* (2002). Lower extremity kinetics during countermovement vertical jumps performed with and without an arm swing. Medicine and Science in Sports and Exercise, 34(5), S1415.
- Feltner, M.E.**, E.J. Bishop*, C.M. Perez* & L.M. Mudd*. (2001) Muscle activity and joint torque at the hip joint during countermovement vertical jumps (CMJs). Medicine and Science in Sports and Exercise, 33(5), S1585.
- Feltner, M.E.**, Dapena, J. & Vint, P.F.. (1999) Free limb motions alter lower extremity muscle mechanics. Medicine and Science in Sports and Exercise, 31(5), S1997.
- LeBlanc, M.K. & **Feltner, M.E.** (1997) Segmental contributions to the speed of the javelin. Medicine and Science in Sports and Exercise, 29(5), S157.
- Feltner, M.**, D.J. Frascetti*, R. Crisp* & T. Stewart* (1996). Arm motion effects on lower extremity angular kinetics during countermovement vertical jumps (CMJs). Medicine and Science in Sports and Exercise, 28(5), S46.

- Nelson, S.T.* & **Feltner, M.** (1993). Three-dimensional kinematics of the throwing arm during a penalty throw in water polo. Medicine and Science in Sports and Exercise, 25(5), S196.
- Feltner, M.** (1990). Three-dimensional kinematics of the trunk during baseball pitching. AAHPERD Abstracts, Reston, Virginia.
- Dapena, J. & **Feltner, M. E.** (1988). Influence of cable force direction and hammer path radius on speed fluctuations during hammer throwing. Medicine and Science in Sports and Exercise, 20(2), S49.
- Dapena, J. & **Feltner, M.** (1986). A model for altitude and wind effects on the times of 100 meter sprint races. Medicine and Science in Sports and Exercise, 18(2), S80.
- Dapena, J. & **Feltner, M.** (1986). Evaluation of the assumption of constant driving power for the prediction of altitude and wind effects on sprint times. AAHPERD Abstracts, Reston, Virginia.
- Feltner, M.** (1986). Three-dimensional kinematics of the throwing arm during a baseball pitch. AAHPERD Abstracts, Reston, Virginia.

REPORTS

- Coyle, E.F., **Feltner, M.**, Kautz, S., Baylor, A., Abraham, L., Beltz, J., Hamilton, M., Montain, S. & Petrek, G. (1988). Physiological determinants of cycling endurance. Report submitted to the USOC Sports Medicine Council. University of Texas, approx. 40 pp.
- Dapena, J. & **Feltner, M.** (1986). Biomechanical analysis of high jump, No. 6 (High School). Report for Scientific Services Project USOC/TAC. Indiana University, 128 pp.
- Dapena J., **Feltner, M.** & Bahamonde, R. (1986). Biomechanical analysis of the high jump, No. 5 (Men). Report for Scientific Services Project USOC/TAC. Indiana University, 200 pp.
- Dapena, J., **Feltner, M.**, Bahamonde, R. & Chung, C.S. (1986). Biomechanical analysis of high jump, No. 4 (Women). Report for Scientific Services Project USOC/TAC. Indiana University, 273 pp.
- Dapena, J., Bahamonde, R., **Feltner, M.**, Oren, I. & Nicklass, O. (1983). Biomechanical analysis of high jump, No. 3. Report for Elite Athlete Project (USOC/TAC). Indiana University, 86 pp.
- Dapena, J., **Feltner, M.**, Chung, C. S. & Nicklass, O. (1983) Biomechanical analysis of hammer throw, No. 3. Report for Elite Athlete Project (USOC/TAC). Indiana University, 49 pp.
- Dapena, J., **Feltner, M.**, Nicklass, O., Bahamonde, R. & Chung, C. S. (1983). Biomechanical analysis of hammer throw, No. 2. Report for Elite Athlete Project (USOC/TAC). Indiana University, 109 pp.
- Dapena, J., **Feltner, M.**, Bahamonde, R., Nicklass, O. & Oren, I. (1983). Biomechanical analysis of the high jump, No. 2. Report for Elite Athlete Project (USOC/TAC). Indiana University, 119 pp.

PEER-REVIEWED PRESENTATIONS (* denotes an undergraduate student)

- Feltner, M.E.**, P.G. MacRae & P.J. Westphal*, Changes in vertical jump height across eight days in countermovement jumps performed by novice jumpers. Presented at the 2004 Annual Meeting of the Southwest Chapter of the ACSM, Las Vegas, NV, 2004.
- Feltner, M.E.**, P.G. MacRae & P.J. Westphal*, Changes in vertical jump height across ten days in countermovement jumps performed by novice jumpers. Accepted for presentation at the 2004 Annual Meeting of the Southwest Chapter of the ACSM, Indianapolis, IN. *Paper will not be presented due to a personal family situation.*

- Westphal, P.J.*, **M.E. Feltner** & P.G. MacRae. Changes in vertical jump height across ten days in countermovement jumps performed by novice jumpers. Presented at the 2003 Annual Meeting of the Southwest Chapter of the ACSM, Las Vegas, NV, 2003.
- Richardson, J.N.*, K.A. Jarbo* & **M.E. Feltner**. The relationship between movement variability and performance error in golf putting. Presented at the 2003 Annual Meeting of the Southwest Chapter of the ACSM, Las Vegas, NV, 2003.
- Jarbo, K.A.*, J.N. Richardson* & **M.E. Feltner**. Kinematic determinants of error in golf putting. Presented at the 2003 Annual Meeting of the Southwest Chapter of the ACSM, Las Vegas, NV, 2003.
- Feltner, M.E.** Free limb motions alter biarticular muscle activity during countermovement vertical jumps. Presented at the 2003 Annual Meeting of the ACSM, San Francisco, CA, June, 2003.
- Feltner, M.E.**, J.A. Howard*, K. Visconti*, E.J. Bishop* & C.M. Perez *. Lower extremity kinetics during countermovement (cm) vertical jumps performed with and without an arm swing. Presented at the 2002 Annual Meeting of the ACSM, St. Louis, MO, June, 2002.
- Feltner, M.E.**, E.J. Bishop*, C.M. Perez* & L.M. Mudd*. Muscle activity and joint torque at the hip joint during countermovement vertical jumps (CMJs). Presented at 2001 Annual Meeting of the ACSM, Baltimore, MD, June, 2001.
- Feltner, M.** Upper extremity augmentation of the lower extremity joint torques. Presented at 1999 Annual Meeting of the ACSM, Seattle, WA, June, 1999.
- LeBlanc, M.K. & **Feltner, M.E.**. Segmental contributions to the speed of the javelin. Presented at the 1997 Annual Meeting of the ACSM, Denver, CO, May, 1997.
- Feltner, M.**, D.J. Frascchetti*, R. Crisp* & T. Stewart*. Arm motion effects on lower extremity angular kinetics during countermovement vertical jumps (CMJs). Presented at 1996 Annual Meeting of the ACSM, Cincinnati, OH, May, 1996.
- R. Crisp*, T. Stewart*, P. Mandella*, K. Millikan*, D.J. Frascchetti*, & **M.E. Feltner**. Arm motion effects on the linear and angular kinematics of the body during countermovement vertical jumps. Presented at 1995 Annual Meeting of the Southwest Chapter ACSM, San Diego, CA, November, 1995.
- D.J. Frascchetti*, K. Deakin*, M. Cox*, M. Davis* & **M.E. Feltner**. Arm motion effects on lower extremity angular kinetics during countermovement vertical jumps (CMJs). Presented at 1995 Annual Meeting of the Southwest Chapter ACSM, San Diego, CA, November, 1995.
- Feltner, M.** & Taylor, G.* Three-dimensional kinetics of the shoulder, elbow and wrist during a penalty throw in water polo. Presented at 18th Annual Meeting of the American Society of Biomechanics (ASB), Columbus, OH, October, 1994.
- Feltner, M.** Kinematics of the throwing arm during a penalty throw in water polo. Presented at 18th Annual Meeting of the American Society of Biomechanics (ASB), Columbus, OH, October, 1994.
- Nelson, S.T.* & **Feltner, M.** Three-dimensional kinematics of the throwing arm during a penalty throw in water polo. Presented at 40th Annual Meeting ACSM, Seattle, WA, June, 1993.
- Feltner, M.**, MacRae, P.M. & McNitt-Gray, J. Gait-related risk factors associated with falling in community-dwelling older females. Presented at the Gerontological Society of America Meeting, San Francisco, CA, November, 1991.
- Feltner, M.**, Hartman, C.*, Welch, M.*, Vierra, J.A.*, Payne, R.*, & Tucker, C.* Strength training effects on rearfoot motion during running. Presented at the Southwest Chapter of the American College of Sports Medicine Meeting, San Diego, CA, November, 1991.

Feltner, M., MacRae, P.M. & McNitt-Gray, J. Gait characteristics of community-dwelling older adults. Presented at the 106th Annual Convention AAHPERD, San Francisco, CA, April, 1991.

Abraham, L., Coyle, E., Kautz, S.A. & **Feltner, M.** High-power output pedaling of elite cyclists: physiological and biomechanical characteristics. Presented at the 1st World Congress of Biomechanics, San Diego, CA, September, 1990.

Feltner, M. Three-dimensional kinematics of the trunk during baseball pitching. Presented at the 105th Annual Convention AAHPERD, New Orleans, LA, April, 1990.

Feltner, M., Kautz, S.A., Coyle, E.F. & Baylor, A. Biomechanical characteristics of propulsive torque generation in two groups of elite cyclists. Presented at 12th International Congress of Biomechanics, Los Angeles, CA, June, 1989.

Kautz, S.A., **Feltner, M.**, Coyle, E.F. & Baylor, A. Changes in pedaling technique of elite cyclists with increased workload. Presented at 12th International Congress of Biomechanics, Los Angeles, CA, June, 1989.

Feltner, M. & Dapena, J. Segmental interactions affecting the flexion/extension motion of the elbow during fastball baseball pitching. Presented at 12th Annual Meeting of the American Society of Biomechanics (ASB), Champaign, IL, September, 1988.

Dapena, J. & **Feltner, M.** Influence of cable force direction and hammer path radius on speed fluctuations during hammer throwing. Presented at 35th Annual Meeting ACSM, Dallas, TX, May, 1988.

Feltner, M. & Dapena, J. Dynamics of the shoulder and elbow joints of the throwing arm during a baseball pitch. Presented at the North American Congress on Biomechanics, Montreal, Quebec, Canada, August, 1986.

Dapena, J. & **Feltner, M.** An empirical model to calculate the effects of wind and altitude on the times of 100 meter sprint races. Presented at the North American Congress on Biomechanics, Montreal, Quebec, Canada, August, 1986.

Dapena, J. & **Feltner, M.** A model for altitude and wind effects on the times of 100 meter sprint races. Presented at 33rd Annual Meeting ACSM, Indianapolis, IN, May, 1986.

Feltner, M. Three-dimensional kinematics of the throwing arm during a baseball pitch. Presented at 101st Annual Convention AAHPERD, Cincinnati, OH, April, 1986.

Dapena, J. & **Feltner, M.** Evaluation of the assumption of constant driving power for the prediction of altitude and wind effects on sprint times. Presented at 101st Annual Convention AAHPERD, Cincinnati, OH, April, 1986.

INVITED PRESENTATIONS

Feltner, M. & MacRae, P. Changes associated with skill improvement or What happens as you learn to jump higher? Presented at the Pepperdine University Faculty Conference, October, 2004.

Feltner, M. Upper extremity augmentation of the lower extremity joint torques.. Presented at a Natural Science Division Seminar, Pepperdine University, Malibu, CA, January, 2000.

Feltner, M. E. Biomechanics of injuries to the throwing arm during baseball pitching. Presented at the Southwest Chapter of the American College of Sports Medicine Meeting, Las Vegas, NV, November, 1997.

Feltner, M. Effects of arm motion on the actions of the lower extremity during countermovement vertical jumps. Presented at the IV International Olympic Committee (IOC) World Congress on Sport Science, Monaco, October, 1997.

- Feltner, M.** Biomechanics of the penalty throw in water polo. Presented at the IV International Olympic Committee (IOC) World Congress on Sport Science, Monaco, October, 1997.
- Feltner, M.** Biomechanics of throwing and throwing-related injuries. Presented at the 1997 Annual Meeting of the ACSM, Denver, CO, May, 1997.
- Feltner, M.** Causal factors of human motion: biomechanics of vertical jumping Presented at the Pepperdine University Faculty Conference, February, 1996.
- Feltner, M.** Biomechanics of fastball pitching in baseball. Presented at the Australian Institute of Sport, Canberra, Australia, August, 1992.
- Feltner, M.,** MacRae, P.M. & McNitt-Gray, J. Gait related risk-factors associated with falling in community-dwelling older females. Presented at a Natural Science Division Seminar, Pepperdine University, Malibu, CA, November, 1991.
- Feltner, M.** & MacRae, P.M. Gait related factors associated with falling in older adults. Presented at the University of Southern California Department of Physical Therapy, Los Angeles, CA, April, 1991.
- Feltner, M.** Biomechanics of fastball pitching in baseball. Presented at a Natural Science Division Seminar, Pepperdine University, Malibu, CA, March, 1990.
- Feltner, M.** Selected topics related to the biomechanics of baseball pitching and cycling. Presented at the California Polytechnic University in San Luis Obispo, CA, November, 1989.

PROFESSIONAL, NON-RESEARCH PRESENTATIONS

- Feltner, M.** & S. Hall. Pepperdine University Human Subjects Research Protections. Presented to the Seaver College Faculty, Pepperdine University, Malibu, CA, February 18, 2004
- Feltner, M.** & S. Hall. Pepperdine University Human Subjects Research Protections. Presented to the Seaver College Faculty, Pepperdine University, Malibu, CA, February 4, 2004
- Feltner, M.** & S. Hall. Pepperdine University Human Subjects Research Protections. Presented to the Graduate School of Education and Psychology Faculty, Pepperdine University, Malibu, CA, January 15, 2004

GRANTS

Funded:

- Feltner, M.E.** Upper Extremity Motion and Skill Effects on Lower Extremity Muscle Activity and Force Production During Countermovement Vertical Jumps. Seaver College Research Council, July, 2002. Amount funded - \$3,600.00.
- Feltner, M.E.** & LeBlanc, M. Southern California Conference On Biomechanics. American Society of Biomechanics, October, 2002. Value of the award - \$1,920.00
- Pepperdine University and Sports Medicine Department (Faculty Co-Principal Investigators: **Feltner, M.** & MacRae, H.), Scientific Equipment for Sports Medicine, The Kenneth T. and Eileen L. Norris Foundation. Amount requested - \$53,722.00; Amount funded - \$10,000.00. Amount requested for M. Feltner - \$19,722.00.; Amount funded for M. Feltner - \$3,671.00. Awarded August, 2002.
- Pepperdine University and Sports Medicine Department (Faculty Co-Principal Investigators: **Feltner, M.** & MacRae, H.), Scientific Equipment for Sports Medicine, The Henry L. Guenther Foundation. Amount

requested - \$152,058.00; Amount funded - \$75,000.00. Amount requested for M. Feltner - \$118,058.00. Amount funded for M. Feltner - \$58,230.00. Awarded July, 2002.

Pepperdine University and Natural Science Division (Faculty Co-Principal Investigators: Brewster, J., **Feltner, M.**, Ganske, J., Kats, L., MacRae, H., Swartzendruber, D., & Vos Strache, C.), Scientific Equipment Proposal, The Ralph M. Parsons Foundation. Amount requested - \$247,972.00; Amount funded - \$100,000.00. Amount requested for M. Feltner - \$77,168.00. Amount funded for M. Feltner - \$31,120.00. Submitted, March, 2002. Awarded December, 2002.

Feltner, M.E. Upper Extremity Motion and Skill Effects on Lower Extremity Muscle Activity and Force Production During Countermovement Vertical Jumps. Seaver College Research Council, July, 2002. Amount funded - \$3,600.00.

Feltner, M.E. Upper Extremity Motion and Skill Effects on Lower Extremity Muscle Activity and Force Production During Countermovement Vertical Jumps. Seaver College Research Council - Dean's Research Fund, February, 2002. Amount funded - \$1,000.00.

Feltner, M.E. Arm Movements Alter Lower Extremity Muscle Activity and Force Production During Countermovement Vertical Jumps. Seaver College Research Council - Dean's Research Fund, February, 2002. Amount funded - \$1,000.00.

Feltner, M.E. & LeBlanc, M. First Annual Southern California Conference On Biomechanics. American Society of Biomechanics, October, 1998. Value of the award - \$2,000.00

Feltner, M.E. Control of Limb Dynamics in Normal Subjects and Patients Suffering from a Cerebrovascular Accidents (Strokes). Pepperdine University. Sabbatical Leave for the period 1/1/98 through 5/1/98. Value of the award - \$34,500.00.

Pepperdine University and Natural Science Division (Faculty Principal Investigator: Tallman, G.. Faculty Co-Principal Investigators: Davis, S., **Feltner, M.**, Ganske, J., Hutchinson, B., Kats, L., MacRae, H., Vandergon, T.), Scientific Equipment and Student Research Stipends Proposal, The Ralph M. Parsons Foundation. Total Award - \$402,564.00; Award for M. Feltner - \$90,648.00. (1996-1999)

Feltner, M.E. Upper Extremity Movement Impairment as a Result of Cerebrovascular Accidents (Strokes). Pepperdine University Research Council, April, 1996. Amount funded - \$3,000.00.

Feltner, M.E. Upper Extremity Movement Impairment as a Result of Cerebrovascular Accidents (Strokes). Seaver College Reassigned Time Committee, October, 1995. Amount funded - \$6,740.33.

Feltner, M.E. Augmentation of lower extremity muscle force generation via arm motions during vertical jumping. Pepperdine University Research Council, November, 1994. Amount funded - \$3,500.00.

Feltner, M.E. Contribution of arm movements to force production during countermovement vertical jumps Seaver College Reassigned Time Committee, Pepperdine University, October, 1994. Amount awarded - \$5,538.33.

Feltner, M.E. Biomechanical analysis of the throwing arm during a penalty throw in water polo. Pepperdine University Research Council, January, 1993. Amount awarded - \$2,500.

Feltner, M.E. Three-dimensional segmental interactions of the throwing arm during a penalty throw in water polo. Seaver College Reassigned Time Committee, Pepperdine University, December, 1992. Amount awarded - \$4,826.

Feltner, M.E. Dynamics of the throwing arm during the penalty throw in water polo. Pepperdine University Research Council, April, 1992. Amount awarded - \$3,500.

Rejected Applications:

Feltner, M.E. Pepperdine University/University of Canberra, Australia Exercise Science Exchange Program. Submitted to the National Science Foundation - Project Kaleidoscope, May, 1995.

Feltner, M.E. Three-dimensional kinematics and kinetics of the throwing arm during a penalty throw in water polo. Submitted to the U.S. Olympic Committee Sports Medicine and Science Committee, August, 1993.

Feltner, M.E. Biomechanical evaluation of throwing technique during the penalty throw in elite U.S. national team water polo athletes. . Seaver College Reassigned Time Committee, Pepperdine University, October, 1993. Amount requested - \$5,067.00.

MacRae, P.M., **Feltner, M.E.**, McNitt-Gray, J.L & Lacourse, M.G. Exercise effects on falls and injuries in older adults. Submitted to the Center for Disease Control/Department of Health and Human Services, October, 1989.

Feltner, M.E. and MacRae, P.M. Effects of community based intervention programs on the gait and associated faller status of older adults. Submitted to the American Association of Retired People, December, 1989.

OTHER RESEARCH RELATED ACTIVITIES

Chaired the Research session Sports Biomechanics, at the 46th Annual Meeting of the American College of Sports Medicine, Indianapolis, IN, June, 2000.

Moderator, Research session on Biomechanics at the 2nd Southern California Conference on Biomechanics, University of Southern California, April, 2000.

Organized and chaired the Research session Free Limb Motions Alter Lower Extremity Muscle Mechanics, at the 45th Annual Meeting of the American College of Sports Medicine, Seattle, WA, June, 1999.

Chaired the Research session Upper Extremity Mechanics - Biomechanics, at the 41st Annual Meeting of the American College of Sports Medicine, Minneapolis, MN, June, 1995.

Chaired the Research session Competitive Athletics - Biomechanics, at the 40th Annual Meeting of the American College of Sports Medicine, Indianapolis, IN, June, 1994.

Organized and Chaired the Research Symposium, Biomechanical aspects of sports performance in elite athletes, at the 107th Annual Convention AAHPERD, Indianapolis, IN, April, 1992.

At Pepperdine University

Designed the Biomechanics Laboratory and assisted in the design of the exercise science laboratories constructed in 2001 at Pepperdine University.

Directed the development of a new Biomechanics/Motor Behavior Research Laboratory in the Department of Sports Medicine and Physical Education in conjunction with Dr. P.G. MacRae, 1991.

In charge of the Biomechanics Laboratory (1988-present).

In charge of the Biomechanics research for the project "Experimental interventions for the reduction of falls". Principal investigators: Tobis, J.S., MacRae, P.G., Reinsch, S. & Ashurst, J.T. Project funded by the Behavioral Medicine Study Section of the National Institute of Aging (approximately \$725,000.00 over a 3 year period). August, 1988 - July, 1991.

At University of Texas

In charge of the Biomechanics Laboratory (1987-1988).

PROFESSIONAL SERVICE

Associate Editor, Biomechanics, Medicine and Science in Sports and Exercise (2001-present)

Member, Editorial Board Journal of Applied Biomechanics (1999-2002)

Co-creator and co-organizer of the Southern California Conference On Biomechanics held March 28-29, 2003 at Pepperdine University. *(The conference provided an opportunity for graduate and undergraduate students in biomechanics to present their research to the local biomechanics community.)*

President, Biomechanics Interest Group of the American College of Sports Medicine (1999-2001)
(As President, I was responsible for organizing the biomechanics content at the annual meeting of the ACSM and promoting biomechanics within the college.)

Member, Research Advisory Team for the United States Volleyball Association.

Reviewer for:

Journal of Biomechanics (1989-present)

International Journal of Applied Biomechanics (1989-present)

Medicine and Science in Sport and Exercise (1992-present)

Research Quarterly (1994-present)

Journal of Sport Science (2000-present)

Co-creator and co-organizer of the First Annual Southern California Conference On Biomechanics April 9-10, 1999 at California State Polytechnic University at Pomona.

Abstract Reviewer for the 1994 American Alliance for Health, Physical Education, Recreation and Dance Conference and the 1996 American College of Sports Medicine Meeting.

Hosted, planned and organized a conference on Videography in conjunction with Peak Performance Technologies, Inc. that was held at Pepperdine University in June of 1993. This conference was attended by 25 professionals in the field of Biomechanics.

ADMINISTRATIVE EXPERIENCE & SERVICE

Committees are identified as university-wide (University), Natural Science Division (Division) or Sports Medicine Department (Department) committees.

2004/2005 Academic Year

Chairperson, Seaver College Institutional Review Board (IRB) (University)
 Coordinator Sports Medicine (SPME) Program (Department)

2003/2004 Academic Year

Chairperson, Seaver College Institutional Review Board (IRB) (University)
 Coordinator Sports Medicine (SPME) Program (Department)

2002/2003 Academic Year

Coordinator of Curricular & Technology Issues, Sports Medicine
 Department (Department)
 Natural Science Division Technology Committee (Division)
 Athletics Committee, Seaver College Faculty Association (University)

2000/2001 Academic Year

Natural Science Division Technology Committee (Division)

2000/2001 Academic Year

Past-President, Seaver College Faculty Association (University)
 Faculty Interview Group, Pepperdine University Provost (University)
 Executive Committee, Seaver College Faculty Association (University)
 University Faculty Committee (University)
 ad hoc Salary & Benefits Committee (University)

1999/2000 Academic Year

President, Seaver College Faculty Association (University)
 Faculty Interview Group, Pepperdine University President (University)
 Coordinator Sports Medicine (SPME) Program (until 11/15/99) (Department)
The coordinator assumes the responsibilities for all curricular and administrative matters related to SPME within the Natural Science Division.
 Executive Committee, Seaver College Faculty Association (University)
 University Faculty Committee (University)
 Space Allocation Committee (Division)
 Search Committee, Exercise Physiology (Department)

1998/99 Academic Year

President Elect, Seaver College Faculty Association (University)
 Coordinator Sports Medicine (SPME) Program (eff. 10/15/98) (Department)
The coordinator assumes the responsibilities for all curricular and administrative matters related to SPME within the Natural Science Division.
 Executive Committee, Seaver College Faculty Association (University)
 University Faculty Committee (University)
 Space Allocation Committee (Division)
 Teaching and Learning Committee, ex officio (University)

1997/98 Academic Year

| | |
|--|--------------|
| Seaver College Academic Council | (University) |
| Curriculum Review Committee | (University) |
| Human Subjects Review Committee | (University) |
| Natural Science Division Strategic Plan | (Division) |
| Technology Committee | (Division) |
| Library Committee | (Division) |
| <i>(I was on sabbatical for the period 1/98 through 8/98.)</i> | |

1996/97 Academic Year

| | |
|--|--------------|
| Seaver College Academic Council | (University) |
| Curriculum Review Committee | (University) |
| Human Subjects Review Committee | (University) |
| Natural Science Division Strategic Plan | (Division) |
| Natural Science Division Hiring Plan | (Division) |
| Technology Committee | (Division) |
| Library Committee | (Division) |
| Space Committee | (Division) |
| Sports Medicine Strategic Plan | (Department) |
| Search Committee – Physiologist | (Department) |
| Search Committee - Visiting Physiologist | (Department) |

1995/96 Academic Year

| | |
|---|--------------|
| Chairperson, Professional Problems Committee | (University) |
| Seaver College Academic Council (eff. 1/1/96) | (University) |
| Human Subjects Review Committee | (University) |
| Buildings and Grounds Committee | (University) |
| Athletics Committee | (University) |
| Pre-Physical Therapy Advisor | (Division) |
| Technology Committee | (Division) |

1994/95 Academic Year

| | |
|---|--------------|
| Coordinator Sports Medicine (SPME) Program | (Department) |
| <i>The coordinator assumes the responsibilities for all curricular and administrative matters related to SPME within the Natural Science Division. As Coordinator, I developed a proposal for Seaver Academic Council to significantly revise and enhance the admissions requirements and curricular content for the Sports Medicine major.</i> | |
| Seaver College Academic Council (1/1/95-8/1/95) | (University) |
| Buildings and Grounds Committee | (University) |
| Athletics Committee | (University) |
| Human Subjects Review Committee | (University) |
| Technology Committee | (Division) |
| Pre-Physical Therapy Advisor | (Division) |
| Physical Education Curriculum Review | (Department) |

1993/94 Academic Year

| | |
|---|--------------|
| Coordinator Sports Medicine (SPME) Program | (Department) |
| Coordinator University of Canberra Exchange Program | (Department) |
| Athletics Committee | (University) |
| Faculty Enrichment Committee | (University) |
| Pre-Physical Therapy Advisor | (Division) |
| Search Committee – Biologist/Physiologist | (Divisional) |
| Search Committee – Laboratory Manager | (Divisional) |

1992/93 Academic Year

| | |
|---|--------------|
| Coordinator Sports Medicine (SPME) Program | (Department) |
| Coordinator University of Canberra Exchange Program | (Department) |
| Athletics Committee | (University) |
| Library Committee | (Division) |
| Pre-Physical Therapy Advisor | (Division) |
| Space Committee | (Division) |

1991/92 Academic Year

| | |
|--|--------------|
| Coordinator Sports Medicine (SPME) Program | (Department) |
| Admissions and Scholarship Committee | (University) |
| Allied Health/Pre-professional Committee | (Division) |
| Pre-Physical Therapy Advisor | (Division) |
| Library Committee | (Division) |

OTHER PROFESSIONAL POSITIONS & EXPERIENCES

Certified Athletic Trainer (NATA) from 1981-1992.

Assistant Athletic Trainer, Cincinnati Reds Major League Baseball Team, 1980-1982.

Staff Athletic Trainer/Therapist, Southwest Ohio Sports Medicine Center, September, 1981 - December, 1981 and May, 1982 - August, 1982.

Participated in the television program "48 Hours" (CBS TV), on the topic "preparation of athletes for the 1988 Summer Olympic Games". Spring, 1988.

I have served as an expert witness/consultant on six legal cases on topics related to the biomechanics of injuries and biomechanical aspects of alleged patent infringement.