

Publikationen (1975-1999)

- Hennig, E. M. (1999). *Plantar pressure measurement for prevention of injury during running*. Perugia, Italy: (Invited Lecture).
- Hennig, E. M. (1999). *Defining the loads applied to the body and the bodies reaction*. Perugia, Italy: (Invited Lecture).
- Hennig, E. M. (1999). *Gait analysis and the biomechanics of human locomotion*. Paper presented at the VIII Congresso Brasileiro de Biomecanica, Florianapolis, Santa Catarina.
- Hennig, E. M., & Sterzing, T. F. (1999). *The use of global positioning systems (GPS and DGPS) for the tracking of human motion*. Paper presented at the XVIIth Congress of the International Society of Biomechanics, Calgary.
- Hennig, E. M., & Zulbeck, O. (1999). *The influence of soccer boot construction on ball velocity and shock to the body*. Paper presented at the Fourth Symposium on Footwear Biomechanics, Canmore / Canada.
- Kimmeskamp, S., & Hennig, E. M. (1999). *Analysis of plantar pressures during gait of patients with Parkinson's disease*. Paper presented at the Fourth Symposium on Footwear Biomechanics, Canmore / Canada.
- Machado, D. B., & Hennig, E. M. (1999). *The influence of daily activity movement patterns on the in-shoe plantar pressure distribution of children*. Paper presented at the Fourth Symposium on Footwear Biomechanics, Canmore.
- Machado, D. B., Hennig, E. M., & Riehle, H. (1999). *Analisa da influencia do calçado na distribuicao de pressaro plantar de uma populacao infantil durante atividades locomotoras*. Paper presented at the VIII Congresso Brasileiro de Biomecanica, Florianapolis, Santa Catarina.
- Milani, T. L., & Hennig, E. M. (1999). Biomechanische Diagnostik in der Sportmedizin. In V. Zschorlich (Ed.), *Integrativer Ansatz biomechanischer Forschungsmethoden zur Verletzungsprophylaxe* (Vol. 103, pp. 77-86). Hamburg: Czwalina Verlag.
- Nass, D., Hennig, E. M., & Treek, R. v. (1999). *The thickness of the heel pad loaded by bodyweight in obese and normal weight adults*. Paper presented at the Fourth Symposium on Footwear Biomechanics, Canmore / Canada.
- Sterzing, T. F., & Hennig, E. M. (1999). *Measurement of plantar pressures, rearfoot motion, and tibial shock during running 10 km on a 400 m track*. Paper presented at the Fourth Symposium on Footwear Biomechanics, Canmore / Canada.
- Hennig, E. (1998). *Measuring methods for the evaluation of soccer shoe properties*. Paper presented at the Soccer Player Oriented Science and Technology Congress, Lyon, France.

- Hennig, E. (1998). *The relationship between body mass and plantar pressure distribution - a review (Keynote Lecture)*. Brisbane, Australia.
- Hennig, E., Hills, A. P., McDonald, M., & Bar-Or, O. (1998). *Pressures under the feet of overweight adults*. Paper presented at the VI Emed Scientific Meeting, Brisbane, Australia.
- Hennig, E. M. (1998). *Measurement and evaluation of loads on the human body during sports activities - Keynote Lecture*. Paper presented at the XVI International Symposium on Biomechanics in Sports, Konstanz, Germany.
- Hennig, E. M., & Lafortune, M. A. (1998). Technology and application of force, acceleration and pressure distribution measurements in biomechanics. In P. Allard, A. Cappozzo, A. Lundberg & C. L. Vaughan (Eds.), *Three-dimensional analysis of human locomotion* (pp. 109-127). New York: J. Wiley & Sons.
- Hennig, E. M., Moering, H., & Milani, T. (1998). *Measurement of rearfoot motion during running with an in-shoe goniometer device*. Paper presented at the Third North American Congress on Biomechanics, Waterloo, Ontario, Canada.
- Hennig, E. M., & Schnabel, G. (1998). *A method to determine impact location and its movement across the strings of a tennis racket*. Paper presented at the XVI International Symposium on Biomechanics in Sports, Konstanz, Germany.
- Kimmeskamp, S., Milani, T., & Hennig, E. M. (1998). *Relationships between perception scores and biomechanical variables for running in different footwear constructions*. Paper presented at the Third North American Congress on Biomechanics, Waterloo, Ontario, Canada.
- Nass, D., & Hennig, E. M. (1998). *The influence of impact location on the racket head on ball speed and load transfer to the arm during tennis serves*. Paper presented at the Proceedings of NACOB'98 the Third North American Congress on Biomechanics, Waterloo, Ontario, Canada.
- Naß, D., & Hennig, E. M. (1998). *Ball impact location on a tennis racket and its influence on ball speed, arm shock and vibration*. Paper presented at the XVI International Symposium on Biomechanics in Sports, Konstanz, Germany.
- Hennig, E. (1997). *Tennisellenbogen - Biomechanische Betrachtungen*. Würzburg: Bayerischer Sportärzteverband - Unterfranken.
- Hennig, E. M., & Milani, T. L. (1997). Der Einsatz von Druckverteilungsmessungen in der Sportmedizin. In L. Thorwesten, J. Jerosch & K. Nicol (Eds.), *Biokinetische Meßverfahren: Einsatzmöglichkeiten in Sportmedizin und Sporttraumatologie* (pp. 75-84). Lit Verlag: Münster.
- Meyring, S., Diehl, R. R., Milani, T. L., Hennig, E. M., & Berlit, P. (1997). Dynamic plantar pressure distribution measurements in hemiparetic patients. *Clin Biomech (Bristol, Avon)*, 12(1), 60-65.

- Milani, T. L., Hennig, E. M., & Lafortune, M. A. (1997). Perceptual and biomechanical variables for running in identical shoe constructions with varying midsole hardness. *Clin Biomech (Bristol, Avon)*, 12(5), 294-300.
- Milani, T. L., Kimmeskamp, S., & Hennig, E. M. (1997). Zusammenhang von biomechanischen Parametern und subjektiver Belastungswahrnehmung in Laufschuhen (Relation of biomechanical parameters and the perception of load in running shoes) *Deutsche Zeitschrift fuer Sportmedizin*, 48(4), 139-144.
- Podzielnny, S., & Hennig, E. M. (1997). Restriction of foot supination by ankle braces in sudden fall situations. *Clin Biomech (Bristol, Avon)*, 12(4), 253-258.
- Rosenbaum, D., & Hennig, E. (1997). Veränderung der Reaktionszeit und Explosivkraftentfaltung nach einem passiven Stretchingprogramm und 10-minütigem Aufwärmen (Reaction time and force development after passive stretching and a ten minute warmup run). *Deutsche Zeitschrift für Sportmedizin*, 48(3), 95-99.
- Hennig, E., & Milani, T. (1996). Testmethoden zur Beurteilung von Laufschuhen. *Dynamed*, 1(1), 33-35.
- Hennig, E. M. (1996, March, 29). *The transfer of tennis racquet vibrations to the human forearm*.
- Hennig, E. M. (1996). *Welche Eigenschaften soll ein guter Laufschuh haben ?* Hannover: Studiengemeinschaft Orthopädie-Schuhtechnik e.V.
- Hennig, E. M., & Schnabel, G. (1996). *Biomechanical analysis of the tennis serve for casual and expert players*. Paper presented at the IX-th Biennial Conference of the Canadian Society of Biomechanics, Vancouver.
- Hennig, E. M., Valiant, G. A., & Liu, Q. (1996). Biomechanical variables and the perception of cushioning for running in various types of footwear. *Journal of Applied Biomechanics*, 12, 143-150.
- Lafortune, M. A., Hennig, E. M., & Lake, M. J. (1996). Dominant role of interface over knee angle for cushioning impact loading and regulating initial leg stiffness. *J Biomech*, 29(12), 1523-1529.
- Lafortune, M. A., Lake, M. J., & Hennig, E. M. (1996). Differential shock transmission response of the human body to impact severity and lower limb posture. *J Biomech*, 29(12), 1531-1537.
- Milani, T. L., & Hennig, E. M. (1996). The influence of footwear construction on foot mechanics during running. In *In Proceedings of the Canadian Society for Biomechanics IXth biennial conference, Burnaby, British Columbia, Canadian Society for Biomechanics, 1996, p.220-221*. Canada.
- Milani, T. L., & Hennig, E. M. (1996). Druckverteilungsmuster unter dem Fuß beim Absprung zum Fosbury-Flop Hochsprung. *Zeitschrift für Sportmedizin*, 47(6), 371-376.

- Schnabel, G., & Hennig, E. M. (1996). *Wrist angular motion, grip strength and vibrational arm loads of casual and expert tennis players during forehand and backhand drives*. Paper presented at the IX-th Biennial Conference of the Canadian Society of Biomechanics, Vancouver.
- Anderson, D. L., Sanderson, D. J., & Hennig, E. M. (1995). The role of external nonrigid ankle bracing in limiting ankle inversion. *Clin J Sport Med*, 5(1), 18-24.
- Hennig, E. M. (1995). Biomechanische Betrachtungen zur Entstehung und Prävention von Tennisarmbeschwerden. In N. Hölting, K. Weber & H. Funhoff (Eds.), *Tennis im höheren Lebensalter aus interdisziplinärer Sicht* (pp. 158-165). Czwalina: Hamburg.
- Hennig, E. M. (1995). *Acceleration, force & pressure distribution measurement techniques and their applications in biomechanics (Tutorial)*. Stanford University.
- Hennig, E. M. (1995). Die Bedeutung der Konstruktionsmerkmale von Tennisschlägern für das Spielverhalten und die mechanische Belastung des Körpers. In P. Koch & P. Maier (Eds.), *Tennisvermittlung als Interpretation und Auswertung sportwissenschaftlicher Erkenntnisse* (pp. 81-92). Sankt Augustin: Academia.
- Hennig, E. M., Lafortune, M. A., & Lake, M. J. (1995). *The influence of midsole material and knee flexion on energy return in simulated running impacts*. Paper presented at the Second Symposium on Footwear Biomechanics, Köln.
- Hennig, E. M., & Milani, T. L. (1995). *Biomechanical profiles of new against used running shoes*. Paper presented at the Nineteenth Annual meeting of the American Society of Biomechanics, Stanford University.
- Hennig, E. M., & Milani, T. L. (1995). *The perception of cushioning during impact loads of the human body*. Paper presented at the Second Symposium on Footwear Biomechanics, Köln.
- Hennig, E. M., & Milani, T. L. (1995). The influence of tennis racket characteristics and grip strength on the magnitude of arm vibration. In H. Krah, H.-G. Pieper, W. B. Kibler & P. Renström (Eds.), *Tennis: Sports Medicine and Science* (pp. 22-27). Duesseldorf: Rau.
- Hennig, E. M., & Milani, T. L. (1995). Die Auswirkungen der Haltekraft am Tennisschläger auf Ballgeschwindigkeit und die Vibrationsbelastungen des Unterarms. *Z. für Sportmedizin*, 43(3), 169-173.
- Hennig, E. M., & Milani, T. L. (1995). In-shoe pressure distribution for running in various types of footwear. *Journal of Applied Biomechanics*, 11(3), 299-310.
- Hennig, E. M., & Podzielný, S. (1995). Die Auswirkungen von Dehn- und Aufwärmübungen auf die Vertikalsprungleistung. *Physikalische Therapie in Theorie und Praxis (Nachveröffentlichung der Z. für Sportmedizin)*, 16(1), 17-22.

- Hennig, E. M., & Sanderson, D. J. (1995). In-shoe pressure distributions for cycling with two types of footwear at different mechanical loads. *Journal of Applied Biomechanics*, 11(1), 68-80.
- Lafortune, M. A., Hennig, E. M., & Lake, M. J. (1995). *The roles of initial knee angle and interfaces upon lower limb stiffness and impact loading*. Paper presented at the Second Symposium on Footwear Biomechanics, Köln.
- Lafortune, M. A., Hennig, E. M., Lake, M. J., & Belisle, P. (1995). *Cushioning role of initial knee angle upon impact loading*. Paper presented at the XVth Congress of the International Society of Biomechanics, Jyväskylä.
- Lafortune, M. A., Hennig, E., & Valiant, G. A. (1995). Tibial shock measured with bone and skin mounted transducers. *Journal of Biomechanics*, 28(8), 989-993.
- Lafortune, M. A., Lake, M. J., & Hennig, E. (1995). Transfer function between tibial acceleration and ground reaction force. *J Biomech*, 28(1), 113-117.
- Milani, T. L., Hennig, E. M., & Valiant, G. A. (1995). *Perception of biomechanical variables for running in footwear of varying midsole stiffness*. Paper presented at the Second Symposium on Footwear Biomechanics, Köln.
- Milani, T. L., Schnabel, G., & Hennig, E. M. (1995). Rearfoot motion and pressure distribution patterns during running in shoes with varus and valgus wedges. *J. of Appl. Biomechanics*, 11(2), 177-187.
- Rosenbaum, D., & Hennig, E. M. (1995). The influence of stretching and warm-up exercises on Achilles tendon reflex activity. *J Sports Sci*, 13(6), 481-490.
- Schnabel, G., & Hennig, E. M. (1995). *The effect of skin mounting technique on tibial acceleration measurements during running*. Paper presented at the Second Symposium on Footwear Biomechanics, Köln.
- Schnabel, G., Hennig, E. M., & Milani, T. L. (1995). *Einfluß von Laufgeschwindigkeiten auf die Fußmechanik*. Paper presented at the Biomechanik und Motorik, Jena.
- Hennig, E. (1994). *Präventivmaßnahmen zur Reduktion von Tennisellbogenbeschwerden aus biomechanisch-technischer Sicht*. Queens Hotel, Frankfurt.
- Hennig, E. (1994). Der Fuß als Stoßdämpfer - die Biomechanik des Fußes beim Laufen. *Runners World*, 2(10), 34-39.
- Hennig, E. (1994). *The use of biomechanical instrumentation for determining impact loads on the human body and for the evaluation of performance*: Dept. of Exercise and Sport Science / College of Health and Human Development / The Pennsylvania State University.
- Hennig, E. M. (1994). Anwendungsbereiche biomechanischer Diagnostikverfahren für die präventive Orthopädie. In H. Liesen, M. Weiß & M. Baum (Eds.), *Regulations- und Repairmechanismen* (pp. 413-417). Köln: Deutscher Ärzte Verlag.

- Hennig, E. M. (1994). *Plantar pressure measurements and applications to footwear*. Paper presented at the 8th Biennial Conference of the Canadian Society of Biomechanics, Calgary.
- Hennig, E. M., & Milani, T. L. (1994). *The effect of tennis racket grip force on ball rebound velocity and vibration transfer to the arm*. Paper presented at the Second International Conference of Sports Medicine and Science in Tennis, Essen / Germany.
- Hennig, E. M., & Milani, T. L. (1994). Druckverteilungsanalysen in Sportschuhen. *Med. Orth. Tech.*, 114(1), 22-25.
- Hennig, E. M., Milani, T. L., & Rosenbaum, D. (1994). The influence of tennis racket design on impact induced arm oscillations (Influence de la conception de la raquette de tennis sur les oscillations du bras provoquées par l'impact). *Journal of Biomechanics*, 27(6), 669-669.
- Hennig, E. M., Milani, T. L., & Schnabel, G. (1994). Beispiele anwendungsorientierter Forschungsgegenstände der präventiven Biomechanik. In *Jubiläumsband Prof. John*.
- Hennig, E. M., & Podzielný, S. (1994). Die Auswirkungen von Dehn- und Aufwärmübungen auf die Vertikalsprungleistung. *Deutsche Z. für Sportmedizin*, 45(6), 253-260.
- Hennig, E. M., Staats, A., & Rosenbaum, D. (1994). Plantar pressure distribution patterns of young school children in comparison to adults. *Foot Ankle Int*, 15(1), 35-40.
- Lafortune, M. A., Hennig, E. M., & Milani, T. L. (1994). *Comparison of treadmill and overground running*. Paper presented at the 8th Biennial Conference of the Canadian Society of Biomechanics, Calgary.
- Milani, T. L., & Hennig, E. M. (1994). Pressure distribution under the foot at the take off in volleyball jumps and fosbury flop high jumps. *Journal of Biomechanics*, 27(6), 677-677.
- Milani, T. L., & Hennig, E. M. (1994). Restriction of foot inversion by trekking shoes in unexpected ankle turns. In *In Proceedings of the Canadian Society for Biomechanics VIIIth biennial conference, Calgary, Canadian Society for Biomechanics, 1994, p.96-97*. Canada.
- Milani, T. L., & Hennig, E. M. (1994). Druckverteilungsanalysen im Sportschuh beim Weitsprung unterschiedlicher Leistungsklassen. *Deutsche Zeitschrift f. Sportmedizin*, 45(1), 4-8.
- Milani, T. L., Hennig, E. M., Meyering, S., Diehl, R. R., & Berlit, P. (1994). Foot pressure patterns of patients with neuromotor disorders. *Gait and Posture*, 2(4), 246-247.
- Podzielný, S., & Hennig, E. M. (1994). *The Influence of warm-up exercise on vertical jumping performance*. Paper presented at the 8th Biennial Conference of the Canadian Society of Biomechanics, Calgary.
- Rosenbaum, D., & Hennig, E. M. (1994). Reaction time and explosive force development following stretching and warming-up (Amelioration du temps de reaction et de la force explosive apres etirement et echauffement). *Journal of Biomechanics*, 27(6), 685-685.

- Schnabel, G., Hennig, E. M., & Milani, T. L. (1994). *The influence of running speed on rearfoot motion, tibial acceleration and in-shoe pressure distribution*. Paper presented at the 8th Biennial Conference of the Canadian Society of Biomechanics, Calgary.
- Amoroso, A., Sanderson, D. J., & Hennig, E. M. (1993). *Kinematic and kinetic changes in cycling resulting from fatigue*. Paper presented at the Biomechanics XIV, Paris.
- Black, A. H., Sanderson, D. J., & Hennig, E. M. (1993). *Kinematic and kinetic changes during an incremental exercise test on a bicycle ergometer*. Paper presented at the Biomechanics XIV, Paris.
- Hennig, E. (1993). Biomechanische Testkriterien für Sportschuhe (Criteria for biomechanical tests for athletic shoes). *Sportverletz Sportschaden*, 7(4), 191-195.
- Hennig, E. M. (1993). Biomechanische Diagnostik in der Sportmedizin. In W. Gutewort, T. Schmalz & T. Weiß (Eds.), *Aktuelle Hauptforschungsrichtungen der Biomechanik sportlicher Bewegungen* (Vol. 55, pp. 47-54). Sankt Augustin: Academia Verlag.
- Hennig, E. M., & Milani, T. L. (1993). Die Dreipunktunterstützung des Fußes - Eine Druckverteilungsanalyse bei statischer und dynamischer Belastung (The tripod support of the foot. An analysis of pressure distribution under static and dynamic loading). *Z Orthop Ihre Grenzgeb*, 131(3), 279-284.
- Hennig, E. M., Milani, T. L., & Lafortune, M. A. (1993). Use of ground reaction force parameters in predicting peak tibial accelerations in running. *Journal of Applied Biomechanics*, 9(4), 306-314.
- Hennig, E. M., Milani, T. L., & Rosenbaum, D. (1993). *The influence of tennis racket design on impact induced arm oscillations*. Paper presented at the Biomechanics XIV, Paris.
- Hennig, E. M., Valiant, G. A., & Liu, Q. (1993). *Relationships between perception of cushioning and pressure distribution parameters in running shoes*. Paper presented at the Biomechanics XIV, Paris.
- Hering, G. O., Hennig, E. M., & Riehle, H. J. (1993). *Force and EMG measurements at the quadriceps femoris of marathon runners against sprinters and volleyball players under isometric explosive conditions*. Paper presented at the Biomechanics XIV, Paris.
- Milani, T. L., & Hennig, E. M. (1993). *Pressure distribution under the foot at the take off in volleyball jumps and fosbury flop high jumps*. Paper presented at the Biomechanics XIV, Paris.
- Milani, T. L., & Hennig, E. M. (1993). Belastungsanalysen des Vorfußes. In C. J. Wirth, R. Ferdini & N. Wülker (Eds.), *Vorfußdeformitäten* (pp. 31-35). Berlin: Springer-Verlag.
- Rosenbaum, D., & Hennig, E. M. (1993). *Reaction time and explosive force development following stretching and warming-up*. Paper presented at the Biomechanics XIV, Paris.

- Schnabel, G., Milani, T. L., & Hennig, E. M. (1993). *Rearfoot motion and pressure distribution patterns during running in shoes with varus and valgus wedges*. Paper presented at the Biomechanics XIV, Paris.
- Valiant, G. A., Hennig, E. M., & Liu, Q. (1993). Relating subjective measures of running shoe cushioning to physical measures. *Med. Sci. Exerc.*, 25(5 (Supplement)), S68.
- Amoroso, A. T., Hennig, E. M., & Sanderson, D. J. (1992). *In-shoe pressure distribution for cycling at different cadences*. Paper presented at the NACOB II: 2nd North American Congress on Biomechanics, Chicago, Ill., USA.
- Black, A. H., Sanderson, D. J., & Hennig, E. M. (1992). *Effectiveness of force application in cycling*. Paper presented at the NACOB II: 2nd North American Congress on Biomechanics, Chicago, Ill., USA.
- Hennig, E. (1992). *Präventivmedizinische Aspekte beim Sportschuh (Übersichtsreferat)*. Insel Raichenau, Bodensee.
- Hennig, E. (1992). *Die Biomechanik des Fußes (Übersichtsreferat)*. Insel Raichenau, Bodensee.
- Hennig, E. (1992). *Grundlagen und Anwendung biomechanischer Kraft & Druckmeßverfahren (Übersichtsreferat)*. München.
- Hennig, E. M. (1992). *Grundlagen und Anwendungsbeispiele von Druckverteilungsmessungen (Vortrag)*. Ulm: Abteilung Unfallchirurgische Forschung und Biomechanik der Universität Ulm.
- Hennig, E. M., Rosenbaum, D., & Milani, T. L. (1992). Transfer of tennis racket vibrations onto the human forearm. *Med Sci Sports Exerc*, 24(10), 1134-1140.
- Hennig, E. M., & Sanderson, D. J. (1992). In-shoe pressure distribution for cycling at different power outputs. Paper presented at the NACOB II: 2nd North American Congress on Biomechanics, Chicago, Ill., USA.
- Hennig, E. M., & Valiant, G. A. (1992). *The influence of run-up distance on ground reaction force and pressure distribution parameters*. Paper presented at the NACOB II: 2nd North American Congress on Biomechanics, Chicago, Ill., USA.
- Lafortune, M. A., & Hennig, E. M. (1992). Cushioning properties of footwear during walking: accelerometer and force platform measurements. *Clinical Biomechanics*, 7(3), 181-184.
- Lafortune, M. A., Valiant, G. A., & Hennig, E. M. (1992). *Skin and bone mounted acceleration signals*. Paper presented at the NACOB II: 2nd North American Congress on Biomechanics, Chicago, Ill., USA.
- Milani, T. L., & Hennig, E. M. (1992). *In-shoe pressure distribution in the triple jump*. Paper presented at the NACOB II: 2nd North American Congress on Biomechanics, Chicago, Ill., USA.

- Rosenbaum, D., & Hennig, E. M. (1992). *The influence of static stretching and a 10-minute warm-up run on reflex force development*. Paper presented at the NACOB II: 2nd North American Congress on Biomechanics, Chicago, Ill., USA.
- Sanderson, D. J., & Hennig, E. M. (1992). *In-shoe pressure distribution in cycling and running shoes during steady-rate cycling*. Paper presented at the NACOB II: 2nd North American Congress on Biomechanics, Chicago, Ill., USA.
- Hennig, E. (1991). Der kindliche Fuß im Lauflernalter. *Orthopädie und Schuhtechnik*, 33-35.
- Hennig, E. (1991). *Perception of cushioning and biomechanical parameters* (Vortrag). Portland, Oregon, USA: Nike Sport Research Lab., Nike.
- Hennig, E. (1991). *Measurement devices and their practical applications* (Gastvortrag). Seoul, Korea: Korean Sport Science Institute.
- Hennig, E. (1991). *The influence of footwear and playing surfaces onto loads of the human body* (Gastvortrag). Seoul, Korea: Korean Sport Science Institute.
- Hennig, E. (1991). *Biomechanical product testing* (Gastvortrag). Seoul, Korea: Korean Sport Science Institute.
- Hennig, E. (1991). *Biomechanical injury prophylaxis for athletic improvement*. Paper presented at the Applications of Sport Science to the Field, Seoul, Korea.
- Hennig, E. (1991). *Biomechanische Meßmethoden und deren Anwendung bei vergleichenden Warentests* (Gastvortrag). Berlin: Stiftung Warentest.
- Hennig, E. (1991). Meßverfahren zur Belastungsmessung des Haltungs- und Bewegungsapparates in Orthopädie und Sport, *Fachkongress Medtech '91*. Berlin.
- Hennig, E. M., & Lafortune, M. A. (1991). Relationships between ground reaction force- and tibial bone acceleration parameters. *Int. J. of Sport Biom.*, 7(3), 303-309.
- Hennig, E. M., & Rosenbaum, D. (1991). Pressure distribution patterns under the feet of children in comparison with adults. *Foot Ankle*, 11(5), 306-311.
- Hennig, E. M., & Rosenbaum, D. (1991). Energieaufwand und Energy-Return beim Laufen. In D. Bremer, M. Engelhardt, R. Singer & R. Wodick (Eds.), *Triathlon: Biomechanik, Trainingskonzeption, Verletzungsprophylaxe* (Vol. 5, pp. 17-28). Ahrensburg: Czwalina.
- Lafortune, M. A., & Hennig, E. M. (1991). Contribution of angular motion and gravity to tibial acceleration. *Med Sci Sports Exerc*, 23(3), 360-363.
- Hennig, E. (1990). [Pressure distribution pattern in relation to foot structure during muscular active and passive load impacts]. *Sportverletz Sportschaden*, 4(3), 109-116.

- Hennig, E. (1990). Anwendung biomechanischer Forschungsergebnisse im Langstreckenlauf. In D. Bremer, M. Engelhardt, R. Singer & R. Wodick (Eds.), *Triathlon: Biomechanik, Trainingskonzeption, Verletzungsprophylaxe* (Vol. 5, pp. 17-28). Ahrensburg: Czwilina.
- Hennig, E. M. (1990). Druckverteilungsmuster in Abhängigkeit von der Fußstruktur bei muskulär aktiven und passiven Belastungsformen. *Sportverletzung-Sportschaden*, 4(3), 109-116.
- Hennig, E. M. (1990). Belastung der Haltungs- und Bewegungsorgane - Meßmethoden im Sport, 38. *Jahrestagung der Vereinigung Süddeutscher Orthopäden e.V.* Baden-Baden.
- Hennig, E. M., & Milani, T. (1990). The assessment of lower extremity loads for different foot types during running on various track surfaces. In N. Berme & A. Capozzo (Eds.), *Biomechanics of Human Movement - Applications in Rehabilitation, Sports and Ergonomics* (pp. 487-490). Worthington, Ohio, USA: Bertec Corporation.
- Hennig, E. M., & Milani, T. L. (1990). *Druckverteilungsmessungen in Straßen- und Sportschuhen*. Paper presented at the 38. Jahrestagung der Vereinigung Süddeutscher Orthopäden e.V., Baden-Baden.
- Hennig, E. M., Rosenbaum, D., & Milani, T. L. (1990). *Pressure distribution measurements in comparative shoe testing*. Paper presented at the Human Locomotion VI, Quebec, Canada.
- Hennig, E. M., & Steinmann, C. G. (1990). Evaluation of different methods for the determination of jumping height as parameter for judging athletic performance. In N. Berme & A. Capozzo (Eds.), *Biomechanics of Human Movement - Applications in Rehabilitation, Sports and Ergonomics* (pp. 423-426). Worthington, Ohio, USA: Bertec Corporation.
- Hennig, E. M., & Steinmann-Milani, C. (1990). Dynamometrische Sprunghöhenbestimmung. In H. J. Menzel & R. Preiß (Eds.), *Forschungsgegenstand Sport* (pp. 179-188). Frankfurt: Harri Deutsch Verlag.
- Milani, T., & Hennig, E. M. (1990). The behavior of anatomical foot structures on various sport floors at high mechanical loads. In N. Berme & A. Capozzo (Eds.), *Biomechanics of Human Movement - Applications in Rehabilitation, Sports and Ergonomics* (pp. 491-494). Worthington, Ohio, USA: Bertec Corporation.
- Milani, T. L., & Hennig, E. M. (1990). *Prevention of athletic injuries in triple jump*. Paper presented at the Techniques in Athletics, Köln.
- Milani, T. L., Hennig, E. M., & Stothart, P. J. (1990). *Day to day-variability of pressure distribution measurements during walking and running*. Paper presented at the Human Locomotion VI, Quebec, Canada.
- Miller, D. I., Jones, I. C., Pizzimenti, M. A., Hennig, E., & Nelson, R. C. (1990). Kinetic and Kinematic Characteristics of 10-m Platform Performances of elite divers II - Reverse Takeoffs. *Int. J. of Sport Biom.*, 6(3), 283-308.

- Rosenbaum, D., Hennig, E. M., & Hering, G. O. (1990). *The influence of a ten minute warm-up run on muscle fiber conduction velocity of the vastus lateralis muscle*. Paper presented at the 8th International Congress of the International Society of Electrophysiological Kinesiology, Baltimore, Maryland, USA.
- Rosenbaum, D., Hennig, E. M., & Stothart, P. J. (1990). *The influence of passive and contract-relax stretching on muscle fiber conduction velocity of the vastus lateralis muscle*. Paper presented at the Human Locomotion VI, Quebec, Canada.
- Hennig, E. (1989). Biomechanische und orthopädische Präventivmaßnahmen im Leistungssport, 9. *Sportwissenschaftlicher Hochschultag der DVS*. Freiburg.
- Hennig, E., & Krahle, H. (1989). Biomechanische Untersuchungsmethoden in der Sportorthopädie zur Verletzungsprophylaxe und Leistungsdiagnostik. In K. F. Schlegel & K. Jahn (Eds.), *Jahrbuch der Orthopädie 1989* (pp. 73-81). Züllich: Biermann.
- Hennig, E. M. (1989). Meßverfahren zur Bestimmung von mechanischen Belastungen im Sport, 16. *Ulmer Orthopädie-Kolloquium, Biomechanische Untersuchungsmethoden in der Sportmedizin*. Ulm.
- Hennig, E. M. (1989). Verfahren, Ergebnisse und Grenzen präventiver Ansätze in der Biomechanik und Orthopädie. In M. Bührle & M. Schnurr (Eds.), *Leistungssport: Herausforderung für die Sportwissenschaft* (Vol. 72, pp. 178-179). Schorndorf: Hofmann.
- Hennig, E. M. (1989). Reduktionsmöglichkeit mechanischer Belastungen durch Auswahl geeigneter Sportgeräte, *Sportmotorisches Lernen und Techniktraining*. Saarbrücken.
- Hennig, E. M. (1989). Druckverteilungsmuster in Abhängigkeit von der Fußstruktur bei sportrelevanten Belastungsformen, *Jahreskonferenz der Gesellschaft für Orthopädie und Traumatologie*. München.
- Hennig, E. M., & Lafortune, A. (1989). Tibial bone acceleration and ground reaction force parameters during running. *J. of Biom.*, 22, 1043.
- Hennig, E. M., & Milani, T. L. (1989). *Pressure distribution measurement techniques for the prevention of athletic injuries*. Paper presented at the First IOC World Congress on Sport Sciences, Colorado Springs, USA.
- Hering, G., Hennig, E., & Riehle, H. (1989). Measurements of muscle fibre conduction velocity at the m. biceps and m. triceps brachii under isometric loads. *J. Biom.*, 22, 1021.
- Hering, G. O., Hennig, E. M., & Riehle, H. J. (1989). *Messung der Muskelleitgeschwindigkeit am M. Biceps und M. Triceps Brachii bei isometrischer Belastung*. Paper presented at the Sportmotorisches Lernen und Techniktraining, Saarbrücken.
- Lafortune, M. A., & Hennig, E. (1989). Contribution of angular motion and gravitation onto tibial acceleration. *J. Biom.*, 22, 1043.

- Milani, T., & Hennig, E. (1989). Pressure distribution patterns inside of a running shoe during up- and downhill running. *J. Biom.*, 22, 1056.
- Milani, T. L., & Hennig, E. M. (1989). Prävention von Verletzungen und Beschwerden des Bewegungsapparates bei Hochleistungsathleten in der Disziplin des leichtathletischen Dreisprungs. In M. Bührle & M. Schnurr (Eds.), *Leistungssport: Herausforderung für die Sportwissenschaft* (Vol. 72, pp. 184-188). Schorndorf: Hofmann.
- Miller, D. I., Hennig, E., Pizzimenti, M. A., Jones, I. C., & Nelson, R. C. (1989). Kinetic and kinematic characteristics of 10-m platform performances of elite divers I - back take-offs. *Int. J. of Sport Biom.*, 5(1), 60-88.
- Hennig, E. (1988). Druckverteilungsanalyse, *Arzt und Athlet IV*. Essen.
- Hennig, E. (1988). Piezoelectric sensors. In J. G. Webster (Ed.), *Encyclopedia of Medical Devices and Instrumentation* (Vol. 4, pp. 2310-2319). New York: J. Wiley & Sons.
- Hennig, E., Milani, T., & Rosenbaum, D. (1988). Präventive Biomechanik in der Sportmedizin. *Essener Universitätsberichte*, 3, 22-30.
- Hennig, E., & Riehle, H. (1988). Loads on the human body during trampoline exercises. In G. d. Groot, P. Hollander, P. Huijing & G. v. I. Schenau (Eds.), *Biomechanics XI-B* (Vol. 7B, pp. 736- 739). Amsterdam: Free University Press.
- Hennig, E. M. (1988). *Recent advances in instrumentation for human locomotion studies*. Paper presented at the Fifth Biennial Conference and Human Locomotion Symposium of the Canadian Society for Biomechanics, London, Ontario, Canada.
- Hennig, E. M., & Lafortune, M. A. (1988). Tibial bone and skin accelerations during running. In *In, Cotton, C.E. (ed.) et al., Proceedings of the Fifth Biennial Conference and Human Locomotion Symposium of the Canadian Society for Biomechanics, London, Ont., Spodym Publishers, c1988, p. 74-75*. Canada.
- Hering, G., Hennig, E. M., & Riehle, H. (1988). Reproducibility of IEMG measurements on the M.Triceps Brachii. In G. d. Groot, P. Hollander, P. Huijing & G. v. I. Schenau (Eds.), *Biomechanics XI-A* (Vol. 7A, pp. 148- 152). Amsterdam: Free University Press.
- Lafortune, M. A., & Hennig, E. (1988). *Effects of velocity and uphill slope on tibial shock during running*. Paper presented at the Vth. Biennial Conference of the Canadian Society of Biomechanics, Ottawa, Canada.
- Milani, T. L., & Hennig, E. M. (1988). Pressure patterns inside of a running shoe during walking and running. In *In, Cotton, C.E. (ed.) et al., Proceedings of the Fifth Biennial Conference and Human Locomotion Symposium of the Canadian Society for Biomechanics, London, Ont., Spodym Publishers, c1988, p. 110-111*. Canada.

- Milani, T. L., Hennig, E. M., & Riehle, H. J. (1988). A comparison of locomotor characteristics during treadmill and overground running. In G. d. Groot, P. Hollander, P. Huijing & G. v. I. Schenau (Eds.), *Biomechanics XI-B* (Vol. 7B, pp. 655- 659). Amsterdam: Free University Press.
- Rosenbaum, D., & Hennig, E. (1988). *Lower leg EMG activity in walking and running with shoes of different elastic properties*. Paper presented at the Vth. Biennial Conference of the Canadian Society of Biomechanics, Ottawa.
- Hennig, E. (1987). *Instrumentation in biomechanics*. Paper presented at the Olympic Precongress Symposium of the Korean Society of Physical Education, Seoul.
- Hennig, E. (1987). Sportschuhtechnologie zwischen Werbung und Wissenschaft. In W. Kleine (Ed.), *Langlauf in der Kritik* (pp. 82-99). Aachen: Meyer & Meyer.
- Hennig, E. (1987). Die laufende Belastung - Belastung durch Laufen ...aus biomechanischer Sicht: Verein für Gesundheitssport und Sporttherapie Düsseldorf.
- Hennig, E. M. (1987). Stoßdämpfung und elastische Kraftübertragung als Grundelemente einer funktionellen Anatomie des Fußes. *Berkemann Brücke*(276), 2-4.
- Hennig, E. M., & Cavanagh, P. R. (1987). Pressure distribution under the impacting human foot. In *In, Jonsson, B. (ed.), Biomechanics X-A, Champaign, Ill., Human Kinetics Publishers, c1987, p. 375-380*. United States.
- Hennig, E. (1986). Meßmethoden und Ergebnisse der präventiven Biomechanik, *Arzt und Athlet II*. Bad Homburg.
- Hennig, E. M. (1986). Die Belastung des Haltungs- und Bewegungsapparates beim Laufen, 2. *Sportmedizinisches Symposium des Sportärzteverbandes Saar*. Sigriswil, Thuner See, Schweiz.
- Hennig, E. M. (1986). Pronation des Fußes beim Laufen - positiv oder negativ ? *Condition*, 17(4), 22-23.
- Hennig, E. M. (1986). Kräfte und Belastungen des menschlichen Bewegungsapparates beim Gehen und bei sportlichen Bewegungen und ihre Registrierung, 1. *Sportmedizinischen Symposium des Sportärzteverbandes Saar*. Saarbrücken.
- Hennig, E. M. (1986). Meßverfahren zur funktionellen Differenzierung von unterschiedlichen Fußarchitekturen, *Vortrag bei der Jahreshauptversammlung des Bundesinnungsverbandes für Orthopädie Technik*. Westerland/Sylt.
- Hennig, E. M., & Riehle, H. (1986). Biomechanik - Wissenschaft zwischen Wissenschaften. *Konstanzer Hochschulblätter*, 24(2), 16-31.
- Cavanagh, P. R., Andrew, G., Kram, R., Rodgers, M. M., Sanderson, D. J., & Hennig, E. M. (1985). An approach to biomechanical profiling of elite distance runners. *Int. J. of Sport Biom.*, 1, 36-62.

- Cavanagh, P. R., Hennig, E. M., Rodgers, M. M., & Sanderson, D. J. (1985). The measurement of pressure distribution on the plantar surface of diabetic feet. In M. Whittle & D. Harris (Eds.), *Biomechanical Measurement in Orthopaedic Practice* (Vol. 5, pp. 159-166). Oxford, England: Clarendon Press.
- Hennig, E. M. (1985). Kräfte und Belastungen des menschlichen Bewegungsapparates beim Gehen und bei sportlichen Bewegungen. *Berkemann Brücke*, 272, 2-3.
- Hennig, E. M. (1985). Druckverteilung unter dem belasteten Fuß. *Orthopädie Technik*, 36(12), 793-797.
- Hennig, E. M. (1985). *Piezoelectric and capacitive pressure distribution techniques and their application in rehabilitation and industry*. Paper presented at the Application of Biomechanics, Linköping, Sweden.
- Hennig, E. (1984). *Pressure distribution under the foot during expected and unexpected falls*. Unpublished Dissertation, The Pennsylvania State University.
- Hennig, E. M., & Cavanagh, P. R. (1984). Ultrasonic quantification of the arch of the weight bearing foot. In D. A. Winter, R. W. Norman, R. P. Wells, K. C. Hayes & A. E. Patla (Eds.), *Biomechanics IX-B* (Vol. 5B, pp. 211-216). Champaign, Illinois, USA: Human Kinetics.
- Cavanagh, P. R., & Hennig, E. M. (1983). *Pressure distribution measurement - a review and some observations on the effect of shoe foam materials during running*. Paper presented at the Biomechanical Aspects of Sport Shoes and Playing Surfaces, Calgary, Alberta, Canada.
- Cavanagh, P. R., Hennig, E. M., Bunch, R., & Macmillan, N. H. (1983). A new device for the measurement of pressure distribution inside the shoe. In H. Matsui & K. Kobayashi (Eds.), *Biomechanics VIII-B* (Vol. 4B, pp. 1089-1096). Champaign, Illinois, USA: Human Kinetics.
- Hennig, E. M., Cavanagh, P. R., & Macmillan, N. H. (1983). Pressure distribution measurement by high precision piezoelectric ceramic force transducers. In H. Matsui & K. Kobayashi (Eds.), *Biomechanics VIII-B* (Vol. 4B, pp. 1081-1088). Champaign, Illinois, USA: Human Kinetics.
- Albert, H., & Hennig, E. M. (1982). *Dynamische Druckverteilungsmessungen am Fuß - neue Impulse für die Verletzungsprophylaxe?* Paper presented at the Sport: Leistung und Gesundheit, Köln.
- Cavanagh, P. R., & Hennig, E. M. (1982). A new device for the measurement of pressure distribution on a rigid surface. *Med. Sci. Sports Exerc.*, 14(2), 153.
- Hennig, E. M. (1982). *Piezoelectric and capacitive pressure distribution techniques and their specific advantages for biomechanical applications*. Paper presented at the Human Locomotion II, Kingston, Ontario, Canada.
- Hennig, E. M., Cavanagh, P. R., Albert, H. T., & Macmillan, N. H. (1982). A piezoelectric method of measuring the vertical contact stress beneath the human foot. *J Biomed Eng*, 4(3), 213-222.

- Albert, H., Hennig, E. M., & Aisslinger, U. (1981). Infrared emitting devices for telemetry application. In A. Morecki, K. Fidelus, K. Kedzior & A. Wit (Eds.), *Biomechanics VII-A* (Vol. 3A, pp. 539-543). Baltimore: University Park Press.
- Hennig, E. M., Hellmann, H., & Binder, S. (1981). Ultrasonic devices for kinematic movement analysis. In A. Morecki, K. Fidelus, K. Kedzior & A. Wit (Eds.), *Biomechanics VII-A* (Vol. 3A, pp. 483-488). Baltimore: University Park Press.
- Hennig, E. M., & Lafortune, M. A. (1981). A new method for the calculation of jumping height of jumps onto or off a force platform. *Med. Sci. Sports Exerc.*, 13(2), 136.
- Nicol, K., & Hennig, E. M. (1981). A capacitance-type measuring system for exterior biomechanics. *Journal of Human Movement Studies*(7), 63-86.
- Hennig, E. M. (1980). *Application of ultrasonic velocity measurement and capacitive pressure distribution measurement in gait analysis*. Paper presented at the 4th Annual Conference of the ASB, Burlington, Vermont, USA.
- Hennig, E. M., Albert, H., & Aisslinger, U. (1980). Meßstation zur Auswahl von Zellelastomeren für kapazitive Kraftaufnehmer. *Messen & Prüfen/Automatik*(1), 56-62.
- Hennig, E. M., Cavanagh, P. R., & Macmillan. (1980). *High resolution in shoe pressure distribution measurements by piezoelectric transducers*. Paper presented at the Human Locomotion I, London, Ontario, Canada.
- Hennig, E. M., & Nicol, K. (1980). Demonstrationsverfahren für die kinematischen Größen Weg, Geschwindigkeit, Beschleunigung. In R. Ballreich & A. Kuhlowl (Eds.), *Beiträge zur Biomechanik des Sports* (pp. 334-339). Schorndorf: K. Hofmann.
- Hennig, E. M., & Nicol, K. (1980). Batteriebetriebene Laser-Lichtschanke mit einer Reichweite von 1000 m. In R. Ballreich & A. Kuhlowl (Eds.), *Beiträge zur Biomechanik des Sports* (pp. 315-319). Schorndorf: K. Hofmann.
- Hennig, E. M., Nicol, K., & Preiss, R. (1980). Berührungslos arbeitendes akustisches Meßverfahren zur Sofortinformation über den zeitlichen Geschwindigkeitsverlauf von mehreren Körperoberflächenpunkten. In R. Ballreich & A. Kuhlowl (Eds.), *Beiträge zur Biomechanik des Sports* (pp. 319-328). Schorndorf: K. Hofmann.
- Nicol, K., Hennig, E., Aisslinger, U., & Kraffzyk, P. (1980). Einfache Messplattformen fuer Vertikalkraefte. In, Ballreich, R. und Kuhlowl, A., *Beitraege zur Biomechanik des Sports*, Schorndorf, Karl Hofmann, c1980, p, 277-288.
- Nicol, K., & Hennig, E. M. (1980). Goniometer auf kapazitiver Grundlage. In R. Ballreich & A. Kuhlowl (Eds.), *Beiträge zur Biomechanik des Sports* (pp. 310-314). Schorndorf: K. Hofmann.

- Nicol, K., Hennig, E. M., Aisslinger, U., & Kraffzyk, P. (1980). Einfache Meßplattformen für Vertikalkräfte. In R. Ballreich & A. Kuhlow (Eds.), *Beiträge zur Biomechanik des Sports* (pp. 277-288). Schorndorf: K. Hofmann.
- Nicol, K., Hennig, E. M., & Albert, H. (1980). Kapazitives Meßverfahren für die äußere Biomechanik mit Hauptanwendung im Bereich der Dynamometrie. In R. Ballreich & A. Kuhlow (Eds.), *Beiträge zur Biomechanik des Sports* (pp. 265- 277). Schorndorf: K. Hofmann.
- Nicol, K., Hennig, E. M., & Hamann, V. (1980). Meßstation für die Aktionsschnelligkeit. In R. Ballreich & A. Kuhlow (Eds.), *Beiträge zur Biomechanik des Sports* (pp. 328-340). Schorndorf: K. Hofmann.
- Nicol, K., Hennig, E. M., & Huber, G. (1980). Meßsohle zur Vermittlung von objektiver Ergänzungsinformation. In R. Ballreich & A. Kuhlow (Eds.), *Beiträge zur Biomechanik des Sports* (pp. 288-297). Schorndorf: K. Hofmann.
- Nicol, K., Hennig, E. M., & Preiss, R. (1980). Meßketten für die Druckverteilung. In R. Ballreich & A. Kuhlow (Eds.), *Beiträge zur Biomechanik des Sports* (pp. 297-310). Schorndorf: K. Hofmann.
- Hennig, E. M. (1979). *Sports injury prophylaxis by pressure distribution measurements under the foot*. Paper presented at the IInd International Symposium on Adapted Physical Activities, Brussels, Belgium.
- Hennig, E. M., & Habermann, H. (1979). Druckverteilung in Prothesenschäften. *Orthopädie Technik*, 30(1), 1-4.
- Hennig, E. M., & Nicol, K. (1979). *Berührungsloses akustisches Geschwindigkeitsmeßverfahren und kapazitives Kraftmeßverfahren zur Erfassung biomechanischer Größen in der Ganganalyse*. Paper presented at the Pauwels Symposium - Biomechanik in Orthopädie und Traumatologie, Berlin.
- Hennig, E. M., Albert, H., & Aisslinger, U. (1978). Meßverfahren zur Erfassung von Vertikalkräften und zeitabhängigen Druckverteilungen. *Orthopädie Technik*, 29(8), 93-97.
- Hennig, E. M., & Nicol, K. (1978). Registration methods for time-dependent pressure distribution measurements with mats working as capacitors. In *In Asmussen, E. and Jorgensen, K. (ed.), Biomechanics VI-A, Baltimore, Md., University Park Press, 1978, p. 361-367.*
- Nicol, K., & Hennig, E. M. (1978). Measurement of pressure distribution by means of a flexible, large-surface mat. In E. Asmussen & K. Joergensen (Eds.), *Biomechanics VI-A* (Vol. 2A, pp. 374-380). Baltimore: University Park Press.
- Hennig, E. M., & Nicol, K. (1976). Velocity measurement without contact on body surface points by means of the acoustical Doppler-effect. In *In, Komi, P.V. (ed.), Biomechanics V-B, Baltimore, Md., University Park Press, 1976, p. 449-455.*

- Nicol, K., & Hennig, E. M. (1976). Time-dependent method for measuring force distribution using a flexible mat as a capacitor. In *In, Komi, P.V. (ed.), Biomechanics V-B, Baltimore, Md., University Park Press, 1976, p. 433-440.*
- Hennig, E. M. (1975). *Kapazitives Kraftmeßverfahren und akustisches Geschwindigkeitsmeßverfahren zur Erfassung von Bewegungsmerkmalen in der äußeren Biomechanik.* Unpublished Physik Diplomarbeit, Johann Wolfgang Goethe Universität, Frankfurt.
- Hennig, E. M., & Nicol, K. (1975). Laserdiode als Sender einer batteriebetriebenen Lichtschranke mit großer Reichweite. *Laser & Elektrooptik*, 7(1), 22-24.