

National Institute of Chiropractic Research

3714 E. Indian School Road, Phoenix AZ 85018 USA; Telephone: (602) 224-0294; FAX: (602) 224-0230

On these pages please find a listing of the scholarly products (publications in scholarly journals; presentations and book chapters and books) supported by the National Institute of Chiropractic Research (NICR). The NICR is a non-profit foundation committed to scientific and historical research in chiropractic. A tally of the numbers of contributions in each category is presented at the end of this document. 26 March 2001

Color Code: Black = Publication (periodicals); Blue = Presentation; Green = Book chapters & books
History items are shaded for easy identification

Publications in Scholarly Periodicals

1. Matheson D, Jordan P, Murray C. Reliability of scanning EMG of the paraspinal muscles within and between sessions. Presented to the Society for Psychophysiology Research, San Francisco CA, October 31, 1988. Abstracted in *Psychophysiology* 1988; 25(4): 46
2. National Institute of Chiropractic Research (Committee on Chiropractic History). Titles and abstracts of historical articles in critically reviewed periodicals. *Chiropractic History* 1989 (Dec); 9(2):27-34
3. Jacobs GE, Keating JC. Chiropractic periodicals: a survey of characteristics. *American Journal of Chiropractic Medicine* 1989 (Sept); 2(3): 122-8
4. Smith DB, Fuhr AW, Davis BP. Skin accelerometer displacement and relative bone movement of adjacent vertebrae in response to chiropractic percussion thrusts. *Journal of Manipulative & Physiological Therapeutics* 1989; 12: 26-37
5. Youngquist MW, Fuhr AW, Osterbauer PJ. Interexaminer reliability of an isolation test for the presence of an upper cervical isolation subluxation. *Journal of Manipulative & Physiological Therapeutics* 1989; 12: 93-7
6. Fuhr AW, Osterbauer PJ. Interexaminer reliability of relative leg length evaluations in Inequality in the prone extended position. *Chiropractic Technique* 1989; 1(1): 13-8
7. Antos JC, Robinson GK, Keating JC, Jacobs GE. Inter-rater reliability of fluoroscopic detection of fixation in the mid-cervical spine. *Chiropractic Technique* 1990 (May); 2(2): 53-5
8. Jansen RD, Nansel DD, Slosberg M. Normal paraspinal tissue compliance: the reliability of a new clinical and experimental instrument. *Journal of Manipulative & Physiological Therapeutics* 1990; 13(5): 243-6
9. Richards GL, Thompson JS, Osterbauer PJ, Fuhr AW. Low force chiropractic care of two patients with sciatic neuropathy and lumbar disc herniation. *American Journal of Chiropractic Medicine* 1990; 3(1): 25-32
10. Osterbauer PJ, Fuhr AW. The current status of Activator Methods Chiropractic Technique, theory, and training. *Chiropractic Technique* 1990; 2(4): 168-75
11. Waldorf T, Devlin L, Nansel DD. The comparative assessment of paraspinal tissue compliance in asymptomatic female and male subjects in the prone and standing positions. *Journal of Manipulative & Physiological Therapeutics* 1991; 14(8): 457-61
12. NICR Committee on Chiropractic History. Titles and abstracts of historical articles in critically reviewed periodicals, 1989-90. *Chiropractic History* 1991 (June); 11(1): 17-21
13. Keating JC. Introducing the neurocalometer: a view from the Fountain Head. *Journal of the Canadian Chiropractic Association* 1991 (Sept); 35(3): 165-78
14. Keating JC, Brown RA, Smallie P, Tullius de Florence Ratledge: the missionary of straight chiropractic in California. *Chiropractic History* 1991 (Dec); 11(2): 26-38
15. Keating JC. The embryology of chiropractic thought. *European Journal of Chiropractic* 1991 (Dec); 39(3): 75-89
16. Keating JC, Brantingham JW, Donahue JH, Brown RA, Toomey WJ. A brief history of manipulative footcare in America, 1896-1960. *Chiropractic Technique* 1992 (Aug); 4(3): 90-103
17. Keating JC. The evolution of Palmer's metaphors and hypotheses. *Philosophical Constructs for the Chiropractic Profession* 1992 (Sum); 2(1): 9-19
18. Keating JC, Cleveland CS, Sylva L, Ashworth, D.C., the "Grand Old Lady of Chiropractic." *Chiropractic History* 1992 (Dec); 12(2): 14-23
19. Nansel DD, Peneff A, Quitoriano J. Effectiveness of upper vs. lower cervical adjustments with respect to the amelioration of passive rotational vs. lateral flexion end range asymmetries in otherwise asymptomatic subjects. *Journal of Manipulative & Physiological Therapeutics* 1992; 15(20): 99-105
20. Keating JC. Shades of straight: diversity among the purists. *Journal of Manipulative & Physiological Therapeutics* 1992 (Mar/Apr); 15(3): 203-9

21. Wong A, Nansel DD. Comparison between active vs. passive end range assessments in subjects exhibiting cervical range of motion asymmetries. *Journal of Manipulative & Physiological Therapeutics* 1992; 15(3):159-63
22. Keating JC. Who's interested in chiropractic history? *Journal of Manipulative & Physiological Therapeutics* 1992 (May); 15(4): 235-41
23. Keating JC, Hansen DT. Quackery vs. accountability in the marketing of chiropractic *Journal of Manipulative & Physiological Therapeutics* 1992 (Sept); 15(7): 459-70
24. Phillips NJ. Vertebral subluxation and otitis media: a case study. *Chiropractic* 1992; 8(2): 38-9
25. Frach JP, Osterbauer PJ. Chiropractic treatment of Bell's Palsy by Activator Instrument adjusting and high voltage electrotherapy: A report of two cases. *Journal of Manipulative & Physiological Therapeutics* 1992; 15(9): 596-8
26. Osterbauer PF, Fuhr AW, Hildebrandt RW. Mechanical force manually assisted, short lever chiropractic adjustment. *Journal of Manipulative & Physiological Therapeutics* 1992; 15(5): 309-17
27. Osterbauer PJ, Derickson KL, Peles JD, DeBoer KF, Fuhr AW, Winters JM. Three-dimensional head kinematics and clinical outcome of patients with neck injury treated with spinal manipulative therapy: a pilot study. *Journal of Manipulative & Physiological Therapeutics* 1992; 15(8): 501-11
28. Keating JC, Dishman RW, Oliva M, Phillips RB. Roots of the LACC: the Southern California College of Chiropractic. *Journal of Chiropractic Humanities* 1993; 3: 21-41
29. Keating JC, Rehm WS. The origins and early history of the National Chiropractic Association. *Journal of the Canadian Chiropractic Association* 1993 (Mar); 37(1): 27-51
30. Nansel DD, Waldorf T, Cooperstein R. Effect of cervical spinal adjustments on lumbar paraspinal muscle tone - evidence for facilitation of intersegmental tonic neck reflexes. *Journal of Manipulative & Physiological Therapeutics* 1993; 16(2): 91-5
31. Osterbauer PJ, DeBoer KF, Widmaier RS, Petermann EA, Fuhr AW. Treatment and biomechanical assessment of patients with chronic sacroiliac joint syndrome. *Journal of Manipulative & Physiological Therapeutics* 1993; 16(2): 82-90
32. Winters JM, Peles JD, Osterbauer PJ, Derickson K, Deboer KF, Fuhr AW. Three-dimensional head axis of rotation during tracking movements: a tool for assessing neck neuromechanical function. *Spine* 1993; 18: 1178-85
33. Keating JC. At the crossroads: the National Chiropractic Association celebrates chiropractic's fortieth anniversary. *Chiropractic Technique* 1993 (Nov); 5(4): 152-67
34. Keating JC. Scientific epistemology and the status of chiropractic: we are what we do. *European Journal of Chiropractic* 1993 (Dec); 41(3): 81-8
35. Nash J, Keating JC. The birth of the chiropractic angel. *Chiropractic History* 1993 (Dec); 13(2): 26-9
36. Keating JC. Old Dad Chiro comes to Portland, 1908-10. *Chiropractic History* 1993 (Dec); 13(2): 36-44
37. Keating JC. Journal indexing and dissemination: value to society and the profession. *Journal of the Canadian Chiropractic Association* 1993 (Dec); 37(4): 236-8
38. Woltring HJ, Long K, Osterbauer PJ, Fuhr AW. Instantaneous helical axis estimation from 3-D video data in neck kinematics for whiplash diagnostics. *Journal of Biomechanics* 1994; 27: 1415-32
39. Keating JC, Jackson RB, Oliva M, Phillips RB. Origins of the LACC, 1901-1922. *Journal of Manipulative & Physiological Therapeutics* 1994 (Feb); 17(2): 93-106
40. Polkinghorn BS. Conservative treatment of torn medial meniscus via mechanical force, manually assisted, short lever chiropractic adjusting procedures. *Journal of Manipulative & Physiological Therapeutics* 1994; 17: 474-84
41. Nathan M, Keller TS. Measurement and analysis of the in vivo posteroanterior impulse response of the human thoracolumbar spine: a feasibility study. *Journal of Manipulative & Physiological Therapeutics* 1994; 17: 431-41
42. De Witt JK, Osterbauer PJ, Stelmach GE, Fuhr AW. Optoelectric measurement of changes in leg length inequality resulting from isolation tests. *Journal of Manipulative & Physiological Therapeutics* 1994; 17(8): 530-8
43. Keating JC. Where is the fountain head of chiropractic? *Chiropractic History* 1994 (June); 14(1): 38-40
44. Keating JC. The influence of World War I upon the chiropractic profession. *Journal of Chiropractic Humanities* 1994; 4: 36-55
45. Rehm WS, Fay LE, Keating JC. Chiropractic goes to Washington: with Dr. Emmett J. Murphy, 1938-1964. *Chiropractic History* 1994 (Dec); 14(2): 34-42
46. Polkinghorn BS. Chiropractic treatment of frozen shoulder (adhesive capsulitis) utilizing mechanical force, manually assisted short lever adjusting procedures. *Journal of*

filedate: 28 February 2001

Manipulative & Physiological Therapeutics 1995; 18(2):105-15

47. Polkinghorn BS. Posterior calcaneal subluxation; its importance in conservative treatment of heel spur syndrome (plantar fasciitis) via instrumentized chiropractic adjusting procedures. *Chiropractic Sports Medicine* 1995; 9(2):44-51
48. Polkinghorn, BS. Instrumental chiropractic treatment of frozen shoulder associated with mixed metastatic carcinoma. *Chiropractic Technique* 1995; 7(3):98-102
49. Keating JC. Purpose straight chiropractic: not science, not health care. *Journal of Manipulative & Physiological Therapeutics* 1995 (July/Aug); 18(6): 416-8
50. Keating JC, Green BN, Johnson CD. "Research" and "science" in the first half of the chiropractic century. *Journal of Manipulative & Physiological Therapeutics* 1995 (July/Aug); 18(6): 357-78
51. Keating JC. Shhh!!!!...Radiophone station WOC is on the air: chiropractic broadcasting, 1922-1935. *European Journal of Chiropractic* 1995 (Aug); 43(2): 21-37
52. Keating JC, Haldeman S. Joshua N. Haldeman, D.C.: the Canadian years, 1926-1950. *Journal of the Canadian Chiropractic Association* 1995 (Sept); 39(3): 172-86
53. Keating JC, Rehm WS. William C. Schulze, M.D., D.C. (1870-1936): from mail-order mechano-therapists to scholarship and professionalism among drugless physicians, Part I. *Chiropractic Journal of Australia* 1995a (Sept); 25(3): 82-92
54. Keating JC. "Jailing ideas": a 1921 populist critique. *Chiropractic History* 1995 (Dec); 15(2): 113-4
55. Keating JC. "Heat by nerves and not by blood": the first major reduction in chiropractic theory, 1903. *Chiropractic History* 1995 (Dec); 15(2): 70-7
56. Keating JC, Rehm WS. William C. Schulze, M.D., D.C. (1870-1936): from mail-order mechano-therapists to scholarship and professionalism among drugless physicians, Part II. *Chiropractic Journal of Australia* 1995b (Dec); 25(4): 122-8
57. Rehm, William S. Kansas coconuts: legalizing chiropractic in the first state, 1910-1915. *Chiropractic History* 1995 (Dec); 15(2): 43-50
58. Keating JC, Cleveland CS. Cleveland chiropractic: the early years, 1917-1933. *Journal of Manipulative & Physiological Therapeutics* 1996 (June); 19(5): 324-43
59. Keating JC. To hunt the subluxation: clinical research considerations. *Journal of Manipulative & Physiological Therapeutics* 1996 (Nov/Dec); 16(9): 613-9
60. Keating JC. The short life and enduring influence of the American Chiropractic Association, 1922-1930. *Chiropractic History* 1996 (June); 16(1): 50-64
61. Keating JC. Craig M. Kightlinger, M.A., D.C. and the Eastern Chiropractic Institute, 1916-1944. *Journal of Chiropractic Humanities* 1996; 6: 26-44
62. Gaucher-Peslherbe PL. The progressive making of a foremost chiropractic researcher: Fred Illi, from Geneva. *Journal of Manipulative & Physiological Therapeutics* 1996; 19(3): 178-84
63. Osterbauer PJ. Back to basics... technology assessment of the chiropractic subluxation. *Topics in Clinical Chiropractic* 1996; 3: 1-9
64. Osterbauer PJ, Long K, Ribaldo TA, Petermann EA, Fuhr AW, Bigos SJ, Yamaguchi GT. Three-dimensional head kinematics and cervical range of motion in the diagnosis of patients with neck trauma. *Journal of Manipulative & Physiological Therapeutics* 1996; 19: 231-7
65. Guzik DC, Keller TS, Szpalski M, Park JH, Spengler DM. A biomechanical model of the lumbar spine during upright isometric flexion, extension, and lateral bending. *Spine* 1996; 21: 427-33
66. Keating JC, Fleet GT. Thurman Fleet, D.C. and the early years of the Concept-Therapy Institute. *Chiropractic History* 1997 (June); 17(1): 57-65
67. Keating JC, Davidson RD. That "Down in Dixie" school: Texas Chiropractic College between the wars. *Chiropractic History* 1997 (June); 17(1): 17-35
68. Davison RD, Keating JC. A synopsis of the contents of the Texas Chiropractic College Library Special Collections. *Chiropractic History* 1997 (June); 17(1): 37-40
69. Keating JC. Chiropractic: science and antiscience and pseudoscience, side by side. *Skeptical Inquirer* 1997 (July/Aug); 21(4): 37-43
70. Vear HJ, Lee HK, Keating JC. Early Canadian chiropractic colleges. *Chiropractic History* 1997 (Dec); 17(2): 57-68
71. Green BN, Johnson CD, Keating JC. Ted L. Shrader, D.C., F.I.C.C.: A gentle force for improvement in chiropractic. 1998 Lee-Homewood Chiropractic Heritage Award recipient. *Chiropractic History* 1998 (June); 18(1): 59-66
72. Fuhr AW, Colloca CJ. Evaluation and management of common clinical syndromes utilizing Activator Methods Chiropractic Technique. *D.C. Tracts* 1998; 10(2): 3-8
73. Polkinhorn BS. Treatment of cervical disc protrusions via instrumental chiropractic adjustment. *Journal of Manipulative & Physiological Therapeutics* 1998; 21(2): 114-21

filedate: 28 February 2001

74. Polkinghorn BS, Colloca CJ. Treatment of symptomatic lumbar disc herniation utilizing Activator Methods Chiropractic Technique. *Journal of Manipulative & Physiological Therapeutics* 1998; 21(3): 187-96
75. Keating JC, Caldwell S, Nguyen H, Saljooghi S, Smith B. A descriptive analysis of the Journal of Manipulative & Physiological Therapeutics, 1989-1996. *Journal of Manipulative & Physiological Therapeutics* 1998; 21(8): 539-52
76. Keating JC. James F. McGinnis, D.C., N.D., C.P.: spinographer, educator, marketer and bloodless surgeon. *Chiropractic History* 1998 (Dec); 18(2): 63-79
77. Polkinghorn BS. Grand rounds discussion: patient with acute low back pain. *Chiropractic Technique* 1999; 11(1): 1-32
78. Keller TS, Colloca CJ, Fuhr AW. Validation of the force and frequency characteristics of the Activator[®] Adjusting Instrument: effectiveness as a mechanical impedance measurement tool. *Journal of Manipulative & Physiological Therapeutics* 1999; 22(2): 75-86
79. Keating JC, Foderaro F. C. Sterling Cooley, D.C., F.I.C.C.: politician, Innate fundamentalist and Palmer historian. *Chiropractic History* 1999 (June); 19(1): 75-95
80. Polkinghorn BS, Colloca CJ. Chiropractic treatment of coccygodynia via external instrumental adjusting procedures utilizing Activator Methods Chiropractic Technique. *Journal of Manipulative & Physiological Therapeutics* 1999; 22(6): 411-6
81. Nguyen HT, Resnick DN, Caldwell SG, Elston EW, Bishop BB, Steinhouser JB, Gimmillaro TJ, Keating JC. Inter-examiner reliability of activator methods relative leg length evaluation in the prone, extended position. *Journal of Manipulative & Physiological Therapeutics* 1999; 22(9): 565-9
82. Keller TS, Nathan M. Height change due to creep in intervertebral discs: a sagittal plane model. *Journal of Spinal Disorders* 1999;12(4): 313-24
83. Smith BA. Thomas Henry Storey, D.O., D.C., 1843 to 1923. *Chiropractic History* 1999 (Dec); 19(2): 63-84
84. Keating JC. Philosophy: the art of skepticism. *Journal of the Canadian Chiropractic Association* 2000; 44(2): 79-84
85. Keating JC. Roots of the NCMIC: Loran M. Rogers & the National Chiropractic Association, 1930-1946. *Chiropractic History* 2000 (June); 20(1): 39-55
86. Hawk C, Long C, Boulanger K, Morschhuaser E, Fuhr AW. Chiropractic care for patients aged 55 and over: Report from a practice-based research program. *Journal of the American Geriatric Society* 2000; 48(5): 434-45
87. Colloca CJ, Keller TS, Gunzburg R, Vandeputte K, Fuhr AW. Neurophysiological response to intraoperative lumbosacral spinal manipulation. *Journal of Manipulative & Physiological Therapeutics* 2000; 23(7): 447-57
88. Keller TS, Colloca CJ, Fuhr AW. In vivo transient vibration analysis of the normal human thoracolumbar spine. *Journal of Manipulative & Physiological Therapeutics* 2000; 23(8): 521-30
89. Keller TS, Colloca CJ. Mechanical force spinal manipulation increases trunk muscle strength assessed by electromyography: a comparative clinical trial. *Journal of Manipulative & Physiological Therapeutics* 2000 (Nov/Dec); 23(9): 585-95
90. Keating JC. Clarence W. Weiant, D.C., Ph.C., Ph.D., an early chiropractic scholar. *Chiropractic History* 2000 (Dec); 20(2): 49-79
91. Keating JC. Philosophy and science in chiropractic: essential, inseparable and misunderstood. *European Journal of Chiropractic* 2001; 46(1): 51-60
92. Polkinghorn BS, Colloca CJ. Chiropractic treatment of postsurgical neck syndrome utilizing mechanical force, manually-assisted short lever spinal adjustments. *Journal of Manipulative & Physiological Therapeutics* 2001: **accepted for publication**
93. Wood TG, Colloca CJ, Matthews R. A pilot randomized clinical trial on the relative effect of instrumental versus manual thrust manipulation in the treatment of cervical spine dysfunction. *Journal of Manipulative & Physiological Therapeutics* 2001: **accepted for publication**
94. Colloca CJ, Keller TS. Electromyographic reflex responses to mechanical force, manually assessed spinal manipulative therapy. *Spine* 2001: **accepted for publication**
95. Colloca CJ, Keller TS. Stiffness and neuromuscular reflex response of the human spine to dynamic posteroanterior manipulative thrusts in patients with low back pain. *Journal of Manipulative & Physiological Therapeutics* 2001: **accepted for publication**
96. Siordia L, Keating JC. Hail to the chiefs: presidents and CEOs of the LACC. *Chiropractic History*, **accepted for publication**
97. Keating JC, Johnson CD. From Pacific States to Palmer West: the short life and enduring influence of the Northern California College of Chiropractic. *Chiropractic History*, **accepted for publication**

Presentations

98. Jansen R, Nansel D, Slosberg M. The test-retest reliability of compliance measures of unloaded paraspinal tissue in normal subjects. Presented at the California Chiropractic

filedate: 28 February 2001

- Foundation's Third Annual Conference on Research and Education. San Diego, CA, 18-19 June 1988
99. Fuhr AW, Osterbauer PJ. A preliminary look at interexaminer reliability of prone leg lengths. In: *Proceedings of the FCER's First Annual International Conference of Spinal Manipulation*. Washington D.C., 1 April 1989, pp. 213-18
 100. Jansen R, Nansel D, Slosberg M. Normal paraspinal tissue compliance: the reliability of a new clinical experimental instrument. Presented at the FCER's first annual International Conference on Spinal Manipulation, Washington DC, 1 April 1989
 101. Youngquist MW, Fuhr AW, Osterbauer PJ. Interexaminer reliability of an upper cervical isolation test. In: *Proceedings of the FCER's First Annual International Conference of Spinal Manipulation*. Washington D.C., 1 April 1989, pp. 40-6
 102. Maloney P, Tepe R, Buerger D, Petermann E, Picinich D, Robbins B. The algometer as a diagnostic instrument. Presented at the FCER's first annual International Conference on Spinal Manipulation, Washington DC, 1 April 1989
 103. Richards GL, Thompson JS, Osterbauer PJ, Fuhr AW. Use of pre- and post-CT scans and clinical assessment to monitor low force chiropractic care of patients with sciatic neuropathy and lumbar herniation: a review of two cases. *Proceedings of the California Chiropractic Foundation's Fourth Annual Conference on Research and Education*. Monterey CA, 1 July 1989, pp. D4-1 through D4-4
 104. Waldorf T, Plaso A, Devlin L, Nansel D. The assessment of paraspinal tissue compliance at different vertebral segments in otherwise asymptomatic male subjects. Presented at the California Chiropractic Association's fourth annual Conference on Research and Education, Monterey CA, 1-2 July 1989
 105. Fuhr AW. Hearings before a Subcommittee of the Committee on Appropriations, House of Representatives, 101st Congress, 2nd Session. Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies. Part 8A. Testimony of Members of Congress and Other Interested Individuals and Organizations, Washington, D.C., 19 April 1990, pp. H237-289
 106. Osterbauer PJ, Fuhr AW, Widmaier RS, Petermann EA, DeBoer KF. Preliminary biomechanical and clinical assessment of patients with chronic sacroiliac syndrome. In: *Proceedings of the FCER's Second Annual International Conference on Spinal Manipulation*. Washington DC, 12 May 1990, pp. 403-4
 107. Waldorf T, Devlin L, Nansel DD. The assessment of normal paraspinal musculature on 50 female and 50 male subjects in the prone and standing position. Presented at the Foundation for Chiropractic Education & Research's second annual International Conference on Spinal Manipulation, Washington DC, 12 May 1990
 108. Thomas RJ, Salem T, Nance J, McGee D, Bonci AS. Ligamentous changes in the rat spine following repeated adjustments: a pilot study. *Proceedings of the FCER's Second Annual International Conference on Spinal Manipulation*. Washington, DC, 12 May 1990, pp. 122-3
 109. Osterbauer PJ, Fuhr AW, Widmaier RS, DeBoer KF. Biomechanical and clinical assessment of patients with acute "whiplash" syndrome. Presented at the California Chiropractic Foundation's Fifth Annual Conference on Research and Education, Sacramento CA, 16-17 June 1990
 110. Waldorf T, Cooperstein R, Kontz H, Nansel DD. Effects of cervical adjustments on lumbar paraspinal muscle tone. Presented at the California Chiropractic Foundation's fifth annual Conference on Research & Education, Sacramento CA, 16-17 June 1990
 111. Winters JM, Peles JD, Derickson KL, Osterbauer PJ, Fuhr AW. Relations between neck muscle activity and screw axis parameters of the head. *Proceedings of the First World Congress of Biomechanics*, San Diego, CA, August 3-September 4, 1990, p. 209
 112. Winters JM, Peles JD, Derickson KL, Osterbauer PJ, Fuhr AW. Head finite screw axis parameters during vertical, horizontal and oblique tracking movements: normal and injured subjects. *Proceedings of the Fourth Annual Meeting of the American Society of Biomechanics*, Miami FL, 15-16 November 1990, pp. 119-20
 113. Osterbauer PJ, DeVita T, Fuhr AW. Chiropractic treatment of chronic mechanical low back pain in a geriatric population: a practitioner-scientist protocol. *Proceedings of the FCER's Third Annual International Conference on Spinal Manipulation*, Washington D.C., 12-13 April 1991, pp. 230-1
 114. Fuhr AW, Osterbauer PJ. A clinical approach to the validation of Activator Methods Chiropractic Technique. *Proceedings of the FCER's Third Annual International Conference on Spinal Manipulation*, Washington DC, 12-13 April 1991, p. 349
 115. Nansel DD, Peneff A, Quitoriano J. Effectiveness of upper vs. lower cervical adjustments with respect to the amelioration of passive rotational vs. lateral flexion end range asymmetries in otherwise asymptomatic subjects. *Proceedings of the 1991 International Conference on Spinal Manipulation*. 12-13 April 1991, Washington, D.C., pp. 21-5
 116. Keating JC, Meeker WC. N of 1 research: conducting clinical investigations in the chiropractic office setting. Invited presentation at the Foundation for Chiropractic Education & Research's third annual International

filedate: 28 February 2001

- Conference on Spinal Manipulation, Arlington VA, 12-13 April 1991
117. Osterbauer PJ, DeBoer KF, Fuhr AW, Derickson KL, Peles JD, Winters JM. 3-D head axis of rotation in whiplash injured patients treated chiropractically. *Proceedings of the Scientific Symposium of the World Federation of Chiropractic's World Chiropractic Congress*, Toronto, 4-5 May 1991, p. 57-1
118. Winters JM, Osterbauer PJ, Peles JD, Derickson, KL, Fuhr AW, DeBoer KF. Three dimensional head axis of rotation as a diagnostic tool for assessing neck function. *Proceedings of the Scientific Symposium of the World Federation of Chiropractic's World Chiropractic Congress*, Toronto, 4-5 May 1991, pp. 14-1-14-2
119. Osterbauer PJ, Fuhr AW, Hildebrandt RW. Instrument delivered short lever chiropractic adjusting: a review of principles and practice. *Proceedings of the Sixth Annual Conference on Research and Education*, 21-23 June 1991, Monterey CA, pp. 372-90
120. Fuhr AW, Osterbauer PJ. Presentation to the Panels on Leg Length Insufficiency and Short Lever, Mechanical Force, Manually Assisted Procedures. *Proceedings of the California Chiropractic Foundation's Sixth Annual Pacific Consortium for Chiropractic Research Conference on Research and Education*. Monterey CA, 21-23 June 1991
121. Sessle BJ, YuXM, Hu JW, Vernon HT, Haas DA. EMG responses of rat neck and jaw muscles to inflammatory irritant. *Proceedings of the International Brain Research Organization Satellite Seminar on Neuro Plasticity and Pain*, University of Montreal, August 1991
122. Woltring HJ, Derickson KL, Osterbauer PJ, Fuhr AW. Instantaneous helical axis estimation from video data for neck motility assessment of whiplash injury diagnosis. *Abstracts of the 13th Annual Meeting of the International Society of Biomechanics*, 9-13 December 1991, Perth, Australia, p. 774
123. Nansel DD. Side specific and level specific effects of spinal adjustments on cervical-lateral flexion and rotational passive end range asymmetries. *Proceedings of the Scientific Symposium of the World Federation of Chiropractic*, World Chiropractic Congress, Toronto, Canada, 1991
124. Fuhr AW. Hearings before a subcommittee of the Committee on Appropriations, House of Representatives; First Session; Subcommittee on the Departments of Labor, Health and Human Services, Education, and related agencies; Part 8B; Testimony of members of Congress and other interested individuals and organizations; 1991, pp. H2358-2368
125. Fuhr AW. Presentation to the subcommittee on Labor, Health, Human Services and Education, Committee on Appropriations, U.S. House of Representatives. 13 May 1992, Washington, D.C.
126. Osterbauer PJ, Derickson KL, Woltring HJ, Fuhr AW. Instantaneous helical axis as a tool to assess neck function. In: *Proceedings of the Fourth International Conference on Spinal Manipulation*, Chicago, 15-17 May 1992, p. 49
127. Venkataraman S, Yamaguchi GT, Osterbauer PJ, Fuhr AW. Evaluating mechanical force manually assisted short lever adjusting using an anthropomorphic model. *Proceedings of the FCER's Fourth Annual International Conference on Spinal Manipulation*, Chicago, 15-17 May 1992, p. 136
128. Osterbauer PJ, Fuhr AW. Motion analysis as a means to objectify changes in apparent (prone) leg length inequality. *Proceedings of the California Chiropractic Foundation's Seventh Annual Conference on Research and Education*. Palm Springs CA, 19-21 June 1992, pp. 291-2
129. Fuhr AW. Presentation to the Panel on Short & Long Lever, Non-Specified Contact Chiropractic Adjusting. *Proceedings of the California Chiropractic Foundation's Seventh Annual Conference on Research and Education*, Palm Springs CA, 19-21 June 1992, pp. 256-7
130. Osterbauer PJ, Derickson KL, Fuhr AW, Widmaier RS, Petermann EA. Cervical instantaneous axes and clinical correlates in whiplash patients vs. an asymptomatic comparison. *Proceedings of the California Chiropractic Foundation's Seventh Annual Conference on Research and Education*. Palm Springs CA, 19-21 June 1992, pp. 61-4
131. Frach JP, Osterbauer PJ, Fuhr AW. Chiropractic treatment of Bell's Palsy by mechanical force manually assisted, short lever adjusting and high voltage electrotherapy: A report of two cases. *Proceedings of the California Chiropractic Foundation's Seventh Annual Conference on Research and Education*. Palm Springs CA, 19-21 June 1992, pp. 288-90
132. Osterbauer PJ, Fuhr AW. Treatment of chronic sciatica by mechanical force manually assisted, short lever adjusting and a video assisted stretching program: a quantitative case report. *Proceedings of the California Chiropractic Foundation's Seventh Annual Conference on Research and Education*. Palm Springs CA, 19-21 June 1992, pp. 293-5
133. Keating JC, Cleveland CS, Sylva L, Ashworth, D.C., the "Grand Old Lady of Chiropractic"; accepted for presentation at the Association for the History of Chiropractic's Conference on Chiropractic History, Los Angeles College of Chiropractic, Whittier CA, 24 October 1992
134. Osterbauer PJ, Koepsell TD, Bigos SJ, Long Derickson KL, Fuhr AW, Ribaud T, Yamaguchi GT. Variation of instantaneous helical axes of motion of the cervical spine in asymptomatic subjects. *Proceedings of the Cervical Spine Research Society 20th Annual Meeting*. Palm Desert CA, 3-5 December 1992, p. 155

filedate: 28 February 2001

135. Long K, Ribaldo TA, Osterbauer PJ, Fuhr AW, Yamaguchi GT. Instantaneous helical axis patterns of whiplash and asymptomatic subjects. *Proceedings of the Orthopaedic Research Society*, San Francisco, February 15-18, 1993, p. 407
136. Venkataraman S, Yamaguchi GT, Osterbauer PJ, Fuhr AW. Evaluating mechanical manually assisted, short lever adjustments using an anthropomorphic model. *Proceedings of the FCER's Fifth Annual International Conference on Spinal Manipulation*, Montreal, April 30-May 1, 1993, p. 13
137. Hansen DT, Osterbauer PJ, Fuhr AW, Dressler L, Jansen RD. Implementation of chiropractic guidelines: a prospective pilot study. *Proceedings of the FCER's Fifth Annual International Conference on Spinal Manipulation*, Montreal, April 30-May 1, 1993, p. 43
138. Osterbauer PJ, Long-Derickson K, Fuhr AW, Ribaldo T, Yamaguchi GT. Correlation of 3-D head kinematics with clinical assessment in acute "whiplash" patients. *Proceedings of the FCER's Fifth Annual International Conference on Spinal Manipulation*, Montreal, April 30-May 1, 1993, pp. 35-6
139. Long-Derickson K, Ribaldo T, Osterbauer PJ, Fuhr AW, Yamaguchi GT. Instantaneous helical axes patterns of asymptomatic and whiplash subjects. *Proceedings of the FCER's Fifth Annual International Conference on Spinal Manipulation*, Montreal, April 30-May 1, 1993, pp. 33-4
140. Keller T, Nathan M, Kaigle A. Measurement and analysis of interspinous kinematics. *Proceedings of the 1993 International Conference on Spinal Manipulation*, sponsored by the FCER, held at Montreal, April 30-May 1, 1993, pp. 51-5
141. Ventakaraman S, Yamaguchi GT, Osterbauer PJ, Fuhr AW. Evaluating mechanical manually assisted, short lever adjustments using an anthropometric model. Fifth Annual International Conference on Spinal Manipulation, Montreal, 1 May 1993
142. DeWitt JK, Osterbauer PJ, Stelmach GE, Fuhr AW. Optoelectric measurements of leg length inequality during isolation tests. Fifth Annual International Conference on Spinal Manipulation, Montreal, Canada, 1 May 1993
143. Polkinghorn BS. Conservative treatment of torn medial meniscus via mechanical force, manually assisted short lever chiropractic adjusting procedures. *Proceedings of the California Chiropractic Foundation's Eighth Annual Conference on Research and Education*. Monterey CA, 18-20 June 1993, p. 166
144. DeWitt JK, Osterbauer PJ, Stelmach GE, Fuhr AW. Optoelectric measurement of leg length inequality during isolation tests. *Proceedings of the California Chiropractic Foundation's Eighth Annual Conference on Research and Education*. Monterey CA, 18-20 June 1993, pp. 156-7
145. Long K, Ribaldo TA, Osterbauer PJ, Fuhr AW, Yamaguchi GT. Instantaneous helical axes estimation from 3-D video data in neck kinematics. *Proceedings of the second International Symposium on Three-Dimensional Analysis of Human Movement*, Poitiers, France, June 30 - July 3, 1993; p. 94
146. Nash J, Keating JC. The birth of the chiropractic angel. Presented at the Association for the History of Chiropractic's 13th annual Conference on Chiropractic History, Life Chiropractic College, Marietta, Georgia, 9 October 1993
147. Keating JC. Old Dad Chiro comes to Portland, 1908-10. Presented at the Association for the History of Chiropractic's 13th annual Conference on Chiropractic History, Life Chiropractic College, Marietta, Georgia, 9 October 1993
148. Ribaldo TA, Long K, Osterbauer PJ, Yamaguchi GT, Fuhr AW. Three-dimensional kinematic analysis of control and whiplash subjects using instantaneous helical axis parameters. *Proceedings of the American Society of Biomechanics*, Iowa City, 21-23 October 1993, p. 215
149. Osterbauer PJ, Koepsell T, Ribaldo TA, Long K, Yamaguchi GT, Fuhr AW. Validity estimation of three dimensional head kinematics and cervical range of motion in the diagnosis with acute neck injuries. In: *Proceedings of the International Conference on Spinal Manipulation*. Palm Springs CA, 10-11 June 1994, p. 7
150. Nathan M, Lehneman NM, Keller TS. The dynamic response of the human spine to low amplitude, high velocity posteroanterior thrusts. In: *Proceedings of the 1994 International Conference on Spinal Manipulation*. Palm Springs CA, 10-11 June 1994, p. 87
151. DeWitt JK, Osterbauer PJ, Stelmach GE, Fuhr AW. Optoelectric measurement of leg length inequalities before, during, and after isolation tests. In: *Proceedings of the 1994 International Conference on Spinal Manipulation*, Palm Spring CA, 10-11 June 1994, pp. 24-5
152. Nathan M, Keller TS, Pope MH. Spinal column height changes due to creep in normal and degenerated intervertebral discs. *1994 International Society for the Study of the Lumbar Spine*, Seattle, Washington, 21-25 June 1994, p. 118
153. Guzik DC, Keller TS, Szpalski M, Park J, Spengler DM. Trunk muscle force potential: relationship to static and dynamic flexion-extension movements. *Combined European Society of Biomechanics/Second World Congress of Biomechanics*, Amsterdam, the Netherlands, 10-15 July 1994, p. I-163b
154. Guzik DC, Keller TS, Szpalski M, Park J, Spengler DM. A biomechanical model of the lumbar spine during upright isometric flexion, extension, and lateral bending. *The*

Lumbar Spine. A Basic Science Approach (workshop sponsored by the International Society for the Study of the Lumbar Spine), Brussels, Belgium, 26-27 August 1994, p. 22

155. Rehm WS, Faye LE, Keating JC. Chiropractic goes to Washington: with Dr. Emmett J. Murphy, 1938-1964. Presented at the Association for the History of Chiropractic's 14th annual Conference on Chiropractic History, New York Chiropractic College, Seneca Falls, New York, 15 October 1994

156. Keating JC. Shhh!!!!...Radiophone station WOC is on the air, 1922-1932. Presented at the Association for the History of Chiropractic's 14th annual Conference on Chiropractic History, New York Chiropractic College, Seneca Falls, New York, 15 October 1994

157. Keating JC. From Palmer fundamentalism to a philosophy of the science of chiropractic. Interscandinavian Chiropractic Centennial Convention, 29 April 1995, Copenhagen, Denmark

158. Keating JC, Haldeman S. Joshua N. Haldeman, D.C.: the Canadian years, 1926-1950. Presented at the Research Canadian Chiropractic Centennial Convention, 2 June 1995, Toronto

159. Osterbauer PJ, Patterson LJ, Petermann EA, Long K, Ribaud TA, Fuhr AW, Yamaguchi GT, McGregor M. Generalizability of selected 3-D helical axis parameters of the head in volunteers with chronic head pain. The World Federation of Chiropractic's Scientific Meeting. Washington D.C., July 5-9, 1995

160. Osterbauer PJ, Patterson LJ, Petermann EA, Long K, Ribaud TA, Fuhr AW, Yamaguchi GT, McGregor M. Generalizability of selected of patient outcome measures in volunteers with chronic neck pain. The World Federation of Chiropractic's Scientific Meeting. Washington D.C., July 5-9, 1995

161. Fuhr AW, Patterson LJ, Petermann EA, Osterbauer PJ, McGregor M. Feasibility of conducting randomized controlled trials (RCTs) in a private practice. The World Federation of Chiropractic's Scientific Meeting. Washington D.C., July 5-9, 1995

162. Keller TS, Nathan M, Lehneman JB, Compo EA, Guzik DC. Posture dependent trunk strength and iEMG activity. 19th Annual Meeting of the *American Society of Biomechanics*, Stanford University, 24-26 August 1995, pp. 227-8

163. Keating JC, Haldeman S. Joshua N. Haldeman, D.C.: the Canadian years, 1926-1950. Presented at the Association for the History of Chiropractic's 15th annual Conference on Chiropractic History, Davenport, Iowa, 16 September 1995

164. Keating JC, Green BN, Johnson CD. "Research" and "science" in the first half of the chiropractic century.

Presented at the Association for the History of Chiropractic's 15th annual Conference on Chiropractic History, Davenport, Iowa, 16 September 1995

165. Keating JC, Rehm WS. William C. Schulze, M.D., D.C. (1870-1936): from mail-order mechano-therapists to scholarship and professionalism among drugless physicians. Presented at the Association for the History of Chiropractic's 15th annual Conference on Chiropractic History, Davenport, Iowa, 15 September 1995

166. Keating JC, Cleveland CS. Cleveland chiropractic: the early years, 1917-1933. Presented at the Association for the History of Chiropractic's 15th annual Conference on Chiropractic History, Davenport, Iowa, 15 September 1995

167. Keating JC. "Heat by nerves and not by blood": the first major reduction in chiropractic theory, 1903. Presented at the Association for the History of Chiropractic's 15th annual Conference on Chiropractic History, Davenport, Iowa, 15 September 1995

168. Nathan M, Keller TS, Lehneman JB. In vivo measurements of the dynamic posteroanterior mechanical properties of the lumbar spine. *Second Interdisciplinary World Congress on Low Back Pain*, San Diego, 9-11 November 1995, BED-Vol. 29, p. 305

169. Osterbauer PJ, McGregor M, Patterson LJ, Petermann EA, Fuhr AW, Ribaud T, Yamaguchi GT. Generalizability of selected outcome measures in volunteers with chronic neck pain. In: *Proceedings of the Cervical Spine Research Society's 23rd Annual Meeting*, Santa Fe, 30 November-2 December 1995, p. 137

170. Coughlin KM, Keller TS. Muscle fatigue of the multifidus assessed via the fast fourier transform and the Wigner-Ville distribution. In: *Proceedings of the World's First Clinical, Applied Surface EMG Meeting*. Key West, Florida, 2-5 February 1996

171. Nathan M, Keller TS, Wessberg P, Beliveau JG. Dynamic response of the lumbar spine: measurement and modeling. In: *Proceedings of the 42nd Annual Meeting of the Orthopaedic Research Society*. Atlanta, GA, 19-22 February 1996, p. 649

172. McGregor M. Technology Assessment for Clinical Practice. Weekly Neuroscience Conference, Institute for Spine and Biomedical Research, Plano, Texas, 22 March 1996

173. Keating JC. The short life and enduring influence of the American Chiropractic Association, 1922-1930. Presented at the Association for the History of Chiropractic's 16th annual Conference on Chiropractic History, Sherman College of Straight Chiropractic, Spartanburg SC, 4 May 1996

174. Polkinghorn BS. Treatment of multiple cervical disc protrusions via instrumental chiropractic adjustment. *Proceedings of the California Chiropractic Foundation's*

filedate: 28 February 2001

Tenth Annual Conference on Research and Education. San Diego CA, 13-15 June 1996, p 122-5

Health Services and Outcomes Research. Crystal City VA, 5-7 December 1997

175. Coughlin KM, Keller TS. Muscle fatigue of the multifidus assessed via the fast fourier transform and the Wigner-Ville distribution. In: *Proceedings of the 1996 International Society for the Study of the Lumbar Spine*. Burlington VT, June 25-29, 1996, p. 182
176. Osterbauer PJ, Fuhr AW, McGregor M, Pinkerton S, Ahrens J, Guyer R, Triano JJ, Combs S. Progress and partnership in spine care science. [poster] National Workshop to Develop the Chiropractic Research Agenda. Health Resources and Services Administration/Palmer Center for Chiropractic Research, Washington D.C., 12-14 July 1996
177. McGregor M, Osterbauer PJ, Triano JJ, Fuhr AW. Relationship between physicians' perception of patients' cervical spine pain and patient perception. In: *Proceedings of the International Conference on Spinal Manipulation*, Bournemouth, England, 17-19 October 1996, pp. 70-80
178. McGregor M, Osterbauer P. Identifying neck pain symptom amplifiers. Weekly Neuroscience Conference, Institute for Spine and Biomedical Research, Plano, Texas, 10 January 1997
179. Keller TS, EA Compo. Flexion strength and inertial properties of the human spine. In: *Proceedings of the 43rd Annual Meeting of the Orthopaedic Research Society*. San Francisco, CA, 9-13 February 1997
180. McGregor M, Triano JJ, Osterbauer PJ, Fuhr AW, Combs S. An objective model for discriminating neck pain. [poster] *Proceedings of the North American Spine Society/Japanese Spine Research Society "Spine Across the Sea '97"*, Kamuela, Hawaii, 16-20 March 1997
181. McGregor M, Triano JJ, Osterbauer PJ, Fuhr AW, Combs S. An objective model for discriminating neck pain. *Proceedings of World Federation of Chiropractic/Japanese Chiropractic Society/World Chiropractic Congress, Scientific Symposium*, Tokyo, June 1997
182. McGregor M, Triano JJ, Osterbauer PJ, Fuhr AW, Combs S. An objective model for discriminating neck pain. [poster] *Proceedings of National Workshop to Develop the Chiropractic Research Agenda*. Health Resources and Services Administration/Palmer Center for Chiropractic Research, Washington D.C., 19-21 June 1997
183. Keating JC, Caldwell S, Nguyen H, Saljooghi S, Smith B. Bibliographic analysis of the *JMPT*, 1989-1996. Poster presentation at the First Annual Research & Scholarship Day, Los Angeles College of Chiropractic, 2 October 1997
184. McGregor M, Triano JJ, Osterbauer P, Combs S. New technology in the evaluation of neck pain. *Proceedings of the American Statistical Association's International Conference on Health Policy: Methodological Issues in*
185. Keating JC. James F. McGinnis, D.C., N.D., C.P. (1873-1947), spinographer, educator, marketer and bloodless surgeon. Presented at the Association for the History of Chiropractic's 18th annual Conference on Chiropractic History, Life Chiropractic College West, 21 February 1998
186. McGregor M, Block AR, Blumenthal SL, Triano JJ, Osterbauer PJ. Symptom amplification in neck pain patients: an objective test. *Proceedings of the 1st Combined Meeting of the North American Spine Society and American Pain Society: Navigating the New Managed Care and Workers' Compensation Environments: a guide to health care professional survival*. Charleston SC, 26-29 April 1998
187. Triano JJ, McGregor M, Osterbauer P. Reliability of IHA parameters in testing cervical spine function. *Proceedings of 1st Scientific Conference of the Consortium of Canadian Chiropractic Research Centres*. Calgary, Alberta, 14-15 November 1998
188. McGregor M, Osterbauer P, Kohlbeck F, Haldeman S. A cross-sectional survey of vertebrobasilar incidents following chiropractic cervical spine manipulation/adjustment. *Proceedings of 1st Scientific Conference of the Consortium of Canadian Chiropractic Research Centres*. Calgary, Alberta, 14-15 November 1998
189. McGregor M, Triano JJ, Kohlbeck FJ. Instantaneous helical axis location for upper versus lower neck pain. *Proceedings of the Association of Chiropractic Colleges' Sixth Annual Conference*. Orlando FL, 18-20 March 1999
190. Triano JJ, McGregor M, Osterbauer PJ. Reliability of IHA parameters in testing cervical spine function. Poster at the Association of Chiropractic Colleges' Sixth Annual Conference. Orlando FL, 18-20 March 1999
191. Triano JJ, McGregor M, Ziglar J. An objective model for discriminating neck pain using instantaneous kinematic parameters. Presented at Houston Biomedical Engineering Society Conference. Houston, March 1999
192. Siordia L, Keating JC. Laid to uneasy rest: D.D. Palmer, 1913. Presented at the Association for the History of Chiropractic's 19th annual Conference on Chiropractic History, University of Bridgeport, College of Chiropractic, 1 May 1999
193. Keating JC. C. Sterling Cooley, D.C., F.I.C.C., politician, Innate fundamentalist and Palmer historian. Presented at the Association for the History of Chiropractic's 19th annual Conference on Chiropractic History, University of Bridgeport, College of Chiropractic, 1 May 1999
194. Wood TG, Matthews R. A clinical trial investigating the relative effect of an instrumental as opposed to a manual thrust manipulation in the treatment of cervical spine dysfunction - a pilot study. *Proceedings of the 5th Biennial*

filedate: 28 February 2001

Congress of the World Federation of Chiropractic, 17-22 May 1999, p. 249

195. Colloca CJ, Keller TS, Fuhr AW. Muscular and mechanical behavior of the lumbar spine in response to dynamic posteroanterior forces. *Proceedings of the 26th Annual Meeting of the International Society for the Study of the Lumbar Spine*, Kona, Hawaii. Toronto: ISSLS, 1999, p. 138A
 196. Keller TS, Colloca CJ. Mechanical force spinal manipulation increases trunk muscle strength assessed by electromyography: A comparative controlled clinical trial. *Proceedings of the 27th Annual Meeting of the International Society for the Study of the Lumbar Spine*, Adelaide, Australia, 9-13 April 2000
 197. Colloca CJ, Keller TS, Seltzer DE, Fuhr AW. Electromyographic responses to mechanical force, manually assessed spinal manipulative therapy. *Proceedings of the 27th Annual Meeting of the International Society for the Study of the Lumbar Spine*, Adelaide, Australia, 9-13 April 2000
 198. Keller TS, Colloca CJ. Dynamic response of the human lumbar spine: a 5 degree-of-freedom lumped parameter time and frequency domain model. *Proceedings of the 12th Conference of the European Society of Biomechanics*. Trinity College, Dublin, Ireland, 27-30 August 2000, p. 395
 199. Colloca CJ, Keller TS, Seltzer DE, Fuhr AW. Mechanical impedance of the human lower thoracic and lumbar spine exposed to in vivo posterior-anterior manipulative thrusts. *Proceedings of the 12th Conference of the European Society of Biomechanics*. Trinity College, Dublin, Ireland, 27-30 August 2000, p. 171
 200. Colloca CJ, Keller TS, Seltzer DE, Fuhr AW. Muscular and soft-tissue contributions of dynamic posteroanterior spinal stiffness. *Proceedings of the 2000 International Conference on Spinal Manipulation*, Bloomington MN, 21-23 September 2000, pp.159-60
 201. Colloca CJ, Keller TS, Seltzer DE, Fuhr AW. Lumbar erector spinae reflex responses to mechanical force, manually-assisted thoracolumbar and sacroiliac joint manipulation in patients with low back pain. *Proceedings of the 2000 International Conference on Spinal Manipulation*, Bloomington MN, 21-23 September 2000, pp. 20-2
 202. Colloca CJ, Keller TS, Peterson TK, Seltzer DE, Fuhr AW. Correlation of L5 dynamic posteroanterior spinal stiffness to plain film radiographic images of lumbosacral disc height. *Proceedings of the 2000 International Conference on Spinal Manipulation*, Bloomington, MN, 21-23 September 2000, pp. 179-80
 203. Keating JC. Philosophy: the art of skepticism. Keynote presentation during Research Day, Canadian Memorial Chiropractic College, Toronto, 2 February 2000
 204. Keating JC. Roots of the NCMIC: Loran M. Rogers and the National Chiropractic Association, 1930-1946. Paper presented at the *20th annual Conference on Chiropractic History*, San Antonio, 18 March 2000
-
- Book Chapters & Books**
205. Keating JC. *Toward a philosophy of the science of chiropractic: a primer for clinicians*. Stockton CA: Stockton Foundation for Chiropractic Research, 1992
 206. Walden D. *Historical bibliography*. Monograph. Phoenix AZ: National Institute of Chiropractic Research, October 1992
 207. Keating JC, Brown RA, Smallie P. One of the roots of straight chiropractic: Tullius de Florence Ratledge. In Sweere JJ (Ed.): *Chiropractic Family Practice*. Volume 1. Gaithersburg MD: Aspen Publishers, 1992
 208. Keating JC. The first 85 years: an overview of scientific developments in chiropractic through 1980. In Sweere JJ (Ed.): *Chiropractic Family Practice*. Volume 1. Gaithersburg MD: Aspen Publishers, 1992
 209. Keating JC, Meeker WC. Philosophy, research methods and chiropractic standards. In: Vejar HJ (Editor): *Chiropractic standards of practice and quality of care*. Gaithersburg MD: Aspen Publishers, 1992
 210. Keating JC, Plaughter G, Lopes MA, Cremata EE. Introduction to clinical chiropractic. In: Plaughter G (Ed.): *Textbook of clinical chiropractic: a specific biomechanical approach*. Baltimore: Williams & Wilkins, 1993
 211. Osterbauer PJ, Fuhr AW, Keller TS. Description and analysis of Activator Methods Chiropractic Technique. In: Lawrence DJ, Cassidy JD, McGregor M, Meeker WC, and Vernon HT, eds. *Advances in Chiropractic*. Volume 2. St. Louis: Mosby, 1995, pp. 471-520
 212. Keating JC. Chiropractic professional associations: the names and politics which have forged present pathways. Chapter 14 in Peterson D, Wiese G (Eds.): *Chiropractic: an illustrated history*. St. Louis: Mosby-Yearbook, Inc., 1995
 213. Cleveland CS, Keating JC. The postwar years: 1945-1975. Chapter 7 in Peterson D, Wiese G (Eds.): *Chiropractic: an illustrated history*. St. Louis: Mosby-Yearbook, Inc., 1995
 214. Keating JC. The age of wonderment: chiropractic in the early 20th century. Chapter 4 in Peterson D, Wiese G (Eds.): *Chiropractic: an illustrated history*. St. Louis: Mosby-Yearbook, Inc., 1995
 215. Keller TS. In vivo transient vibration analysis of the normal human spine. In: Fuhr A, Colloca C, Green J, Keller TS (Eds): *Activator Methods Chiropractic Technique*. St. Louis: Mosby, 1997, pp. 431-50

216. Keating JC. *B.J. of Davenport: the early years of chiropractic*. Davenport IA: Association for the History of Chiropractic, 1997
217. Keating JC, Callender AK, Cleveland CS. *A history of chiropractic education in North America. Report to the Council on Chiropractic Education*. Davenport IA: Association for the History of Chiropractic, 1998
218. Triano J. Chiropractic management of whiplash injury. In: Narayan Yoganandan, PhD, Frank A Pintar, PhD (eds). *Frontiers in whiplash trauma: clinical and biomechanical*. The Netherlands: IOS Press, 2000, pp. 574-88

Frequency Counts:

Source	Frequencies	Item #s
Publications in Periodicals:	97	[1-97]
Presentations:	107	[98-204]
Book Chapters & Books:	14	[205-218]
Totals:	218	[1-218]

NICR projects have been published in:

American Journal of Chiropractic Medicine
Chiropractic
Chiropractic History
Chiropractic Journal of Australia
Chiropractic Sports Medicine
Chiropractic Technique
D.C. Tracts
European Journal of Chiropractic
Journal of Biomechanics
Journal of Chiropractic Humanities
Journal of Manipulative & Physiological Therapeutics
Journal of Spinal Disorders
Journal of the American Geriatric Society
Journal of the Canadian Chiropractic Association
Philosophical Constructs for the Chiropractic Profession
 (renamed *Journal of Chiropractic Humanities*)
Psychophysiology
Skeptical Inquirer
Spine
Topics in Clinical Chiropractic

NICR projects have been presented at conferences and forums sponsored by:

American Pain Society
 American Society of Biomechanics
 American Statistical Association
 Association for the History of Chiropractic
 Association of Chiropractic Colleges
 California Chiropractic Association
 California Chiropractic Foundation
 Canadian Memorial Chiropractic College
 Cervical Spine Research Society
 Chiropractic Centennial Foundation
 Consortium of Canadian Chiropractic Research Centres
 European Society of Biomechanics
 Foundation for Chiropractic Education & Research
 Houston Biomedical Engineering Society
 Institute for Spine and Biomedical Research

International Brain Research Organization
 International Society for the Study of the Lumbar Spine
 International Society of Biomechanics
 Japanese Spine Research Society
 Japanese Chiropractic Society
 Life Chiropractic College West
 Los Angeles College of Chiropractic
 New York Chiropractic College
 North American Spine Society
 Orthopaedic Research Society
 Palmer Center for Chiropractic Research
 Sherman College of Straight Chiropractic
 Society for Psychophysiology Research
 Texas Chiropractic College
 U.S. Health Resources and Services Administration
 U.S. House of Representatives
 University of Bridgeport, College of Chiropractic
 World Congress of Biomechanics
 World Federation of Chiropractic