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"SPARKing Up PETE Pre-Service and In-service Collaborations"

At the PETE conference in Myrtle Beach, South Carolina

October 2009

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Selected SPARK references, Dr. Thom McKenzie
Research Collaborations on Physical Activity and Physical Education
San Diego State University, San Diego, CA, USA 92182 (tmckenzie@sdsu.edu)

OVERVIEW PAPER

McKenzie, T. L., Sallis, J. F., & Rosengard, P. (2009). Beyond the stucco tower: Design, development, and dissemination of the SPARK physical education programs. *Quest*, 61, 114-127.

SPARK

- Armstrong, C. A., Sallis, J. F., Alcaraz, J. E., Kolody, B., McKenzie, T. L., & Hovell, M. F. (1998). Children's television viewing, body fat, and physical fitness. *American Journal of Health Promotion*, 12, 363-368.
- Butcher, J., Sallis, J. F., McKenzie, T. L., & Alcaraz, J. E. (2001). Longitudinal study of children's participation in organized sport and instructional programs. *Avante*, 7(1), 86-96.
- Dowda, M. C., Sallis, J. F., McKenzie, T. L., Rosengard, P. R. & Kohl, H. W. (2005). Evaluating the sustainability of SPARK physical education: A case study of translating research into practice. *Research Quarterly for Exercise and Sport*, 76, 11-19.
- Cardon, G. M., Haerens, L. E., Verstraete, S., & de Bourdeaudhuij, I. (2009). Perceptions of a school-based self-management program promoting an active lifestyle among elementary schoolchildren, teachers, and parents. *Journal of Teaching in Physical Education*, 28, 141-154.
- Faucette, N., McKenzie, T. L., & Sallis, J. (1992). Self-contained versus Team teaching: An analysis of a physical education intervention by classroom teachers. *Journal of Teaching in Physical Education*, 11, 268-287.
- Faucette, N., Nugent, P., Sallis, J. F., & McKenzie, T. L. (2002). "I'd rather chew on aluminum foil." Overcoming classroom teachers' resistance to teaching physical education. *Journal of Teaching in Physical Education*, 21, 287-308.
- Faucette, N., Sallis, J. F., McKenzie, T. L., Alcaraz, J., & Kolody, B. (1995). Comparison of fourth grade students' out-of-school physical activity levels and choices by gender. *Journal of Health Education*, 26(2) Supplement, 82-90.
- Hovell, M. F., Sallis, J. F., Kolody, B., McKenzie, T. L. (1999). Children's physical activity choices: A developmental analysis of gender, intensity levels, and time. *Pediatric Exercise Science*, 11, 158-168.
- Kolody, B., & Sallis, J. F. (1995). A prospective study of ponderosity, body image, self-concept, and psychological variables in children. *Journal of Developmental and Behavioral Pediatrics*, 16, 1-5.
- Marcoux, M.F., Sallis, J. F., McKenzie, T. L., Marshall, S., Armstrong, C. A., & Goggin, K. (1999). Process evaluation of a physical activity self-management program for children: SPARK. *Psychology and Health*, 14, 659-677.
- Marshall, S., Sarkin, J., Sallis, J. F., & McKenzie, T. L. (1998). Tracking of health-related fitness components in youth ages 9-1. *Medicine and Science in Sports and Exercise*, 30, 910-916.
- McKenzie, T. L., Alcaraz, J. E., Sallis, J. F., & Faucette, F. N. (1998). Effects of a physical education program on children's manipulative skills. *Journal of Teaching in Physical Education*, 17, 327-341.
- McKenzie, T. L., Alcaraz, J., & Sallis, J. F. (1994). Assessing children's liking for activity units in an elementary school physical education curriculum. *Journal of Teaching in Physical Education*, 13, 206-215.
- McKenzie, T. L., LaMaster, K. J., Sallis, J. F., Marshall, S. J. (1999). Classroom teachers' leisure time physical activity and their conduct of physical education. *Journal of Teaching in Physical Education*, 19, 125-131.
- McKenzie, T. L., Sallis, J. F., & Armstrong, C. A. (1994) Association between direct observation and accelerometer measures of children's physical activity during physical education and recess. *Medicine and Science in Sports and Exercise*, 26(5), Supplement, 143. (Abstract)
- McKenzie, T. L., Sallis, J. F., Faucette, N., Roby, J., & Kolody, B. (1993). Effects of an inservice intervention on the quality and quantity of elementary classroom teachers' physical education classes. *Research Quarterly for Exercise and Sport*, 64, 178-187.
- McKenzie, T. L., Sallis, J. F., Kolody, B., & Faucette, N. (1997). Long term effects of a physical education curriculum and staff development program: SPARK. *Research Quarterly for Exercise and Sport*, 68, 280-291.
- Nigg, C. R., Battista, J., Chang, J. A., Yamashita, M. & Chung, R. S. (2004). Physical Activity Outcomes of A Pilot Intervention Using SPARK Active Recreation in Elementary After School Programs. *Journal of Sport & Exercise Psychology*, 26, S144-S145. (Abstract)
- Prochaska, J.J., Sallis, J.F., Slymen, D.J., & McKenzie, T.L. (2003). A longitudinal study of children's enjoyment of physical education. *Pediatric Exercise Science*, 15, 170-178.
- Rosenberg, D. E., Sallis, J. F., Conway, T. L., Cain, K. L., & McKenzie, T. L. (2006). Active transportation to school over 2 years in relation to weight status and physical activity. *Obesity*, 14(10), 1771-1776.
- Rosengard, P. & McKenzie, T. L. (1994). Strategies to increase children's activity levels in physical education. *CAHPERD Journal/Times*, 57(1), 9.
- Sallis, J. F., Alcaraz, J. E., McKenzie, T. L., & Hovell, M. F. (1999). Predictors of change in children's physical activity over 20 months in Project SPARK: Variations by sex and level of adiposity. *American Journal of Preventive Medicine*, 16, 222-229.
- Sallis, J. F., Alcaraz, J. E., McKenzie, T. L., Hovell, M. F., Kolody, B., & Nader, P. R. (1992). Parental behavior in relation to physical activity and fitness in 9-year-old children. *American Journal of Diseases of Children*, 146, 1383-1388.
- Sallis, J. F., Condon, A., Goggin, K., Roby, J., Kolody, B., & Alcaraz, J. (1993). The development of self-administered physical activity surveys for 4th grade students. *Research Quarterly for Exercise and Sport*, 64, 25-31.
- Sallis, J. F., McKenzie, T. L., & Alcaraz, J. E. (1993). Habitual physical activity and health-related physical fitness in fourth-grade children. *American Journal of Diseases of Children*, 147, 890-896.
- Sallis, J. F., McKenzie, T. L., Alcaraz, J. E., Kolody, B., Faucette, N., & Hovell, M. F. (1997). The effects of a 2-year physical education program (SPARK) on physical activity and fitness in elementary school students. *American Journal of Public Health*, 87, 1328-1334.
- Sallis, J. F., McKenzie, T. L., Alcaraz, J. E., Kolody, B., Hovell, M. F., & Nader, P. R. (1993). Project SPARK: Effects of physical education on adiposity in children. *Annals of the New York Academy of Sciences*, 699, 127-136.
- Sallis, J. F., McKenzie, T. L., Kolody, B., Lewis, M., Marshall, S., & Rosengard, P. (1999). Effects of health-related physical education on academic achievement: Project SPARK. *Research Quarterly for Exercise and Sport*, 70, 127-134.
- Sarkin, J. A., McKenzie, T. L., & Sallis, J. F. (1997). Gender differences in physical activity during fifth-grade physical education and recess periods. *Journal of Teaching in Physical Education*, 17, 99-106.

M-SPAN

- Hoefler, W. R., McKenzie, T. L., Sallis, J. F., Marshall, S. J., & Conway, T. L. (2001). Parental provision of transportation for adolescent physical activity. *American Journal of Preventive Medicine*, 21(1), 48-51.
- Jones, L. R., Sallis, J. F., Conway, T. L., Marshall, S. J., & Pelletier, R. L. (1999). Ethnic and gender differences in request for and use of low/non-fat foods in bag lunches. *Journal of School Health*, 69, 332-336.
- Marshall, S. J., Biddle, S., Sallis, J. F., McKenzie, T. L., & Conway, T. L. (2002). Clustering of sedentary behaviors and physical activity among youth: A cross-national study. *Pediatric Exercise Science*, 14, 401-417.
- McKenzie, T. L. (2001). Promoting youth physical activity: Focus on middle school environments. *Quest*, 53(3), 326-334. (The Academy papers)
- McKenzie, T. L., Marshall, S. J., Sallis, J. F., & Conway, T. L. (2000). Leisure-time physical activity in school environments: An observational study using SOPLAY. *Preventive Medicine*, 30, 70-77.
- McKenzie, T. L., Marshall, S. J., Sallis, J. F. & Conway, T. L. (2000). Student activity levels, lesson context, and teacher behavior during middle school physical education. *Research Quarterly for Exercise and Sport*, 71, 249-259.
- McKenzie, T. L., Prochaska, J. J., Sallis, J. F., & LaMaster, K. (2004). Coeducational and single-sex physical education in middle schools: Impact on physical activity. *Research Quarterly for Exercise and Sport*, 75, 446-449.
- McKenzie, T. L., Sallis, J. F., Prochaska, J. J., Conway, T. L., Marshall, S. J., & Rosengard, P. (2004). Evaluation of a 2-Year Middle School Physical Education Intervention: M-SPAN. *Medicine and Science in Sport and Exercise*. 36, 1382-1388
- Moody, J. S., Prochaska, J. J., Sallis, J. F., McKenzie, T. L., Brown, M., & Conway, T. L. (2004). Viability of parks and recreation centers as sites for youth physical activity promotion. *Health Promotion Practice*, 5, 438-443.
- Powers, H. S., Conway, T. L., McKenzie, T. L., Sallis, J. F., & Marshall, S. J. (2002). Participation in extracurricular physical activity programs in middle schools. *Research Quarterly for Exercise and Sport*, 73, 187-192.
- Sallis, J. F. (1998). Helping schools provide better food and more activity. *Weight Control Digest*, 8(5), 748-752.
- Sallis, J. F., Conway, T. L., Prochaska, J. J., McKenzie, T. L., Marshall, S. J., & Brown, M. (2001). School environments are associated with youth physical activity. *American Journal of Public Health*, 91, 618-620.
- Sallis, J.F., McKenzie, T.L. Conway, T.L., Elder, J.P., Prochaska, J.J., Brown, M., Marshall, S.J., Alcaraz, J.E., Rosengard, R., Strelow, J., & Powers, H. (2002). Promoting and measuring youth physical activity throughout the school day: Project M-SPAN. *Acta Kinesiologiae Universitatis Tartuensis*, 7 (supplement), 44-53. (published in Estonia)
- Sallis, J. F., McKenzie, T. L., Conway, T. L., Elder, J. P., Prochaska, J. J., Brown, M., Zive, M. M., Marshall, S. J., & Alcaraz, J. E. (2003). Environmental Interventions for Eating and Physical Activity: A Randomized Controlled Trial in Middle Schools, *American Journal of Preventive Medicine*, 24, 209-217.
- Strelow, J. S., Larson, J. J., Sallis, J. F., Conway, T. L., Powers, H. S., McKenzie, T. L. (2002). Factors influencing the performance of volunteers who provide physical activity in middle schools. *Journal of School Health*, 72, 147-151.
- Wilday, M. B., Pampalona, S., Pelletier, R. L., Zive, M. M., Elder, J. P., & Sallis, J. F. (2000). Fat and sugar levels are high in snacks purchased from student stores in middle schools. *Journal of the American Dietetic Association*, 100, 319-322.

SPARK CURRICULA

- Rosengard, P., Baranowski, M. L., Williston, B. J., McKenzie, T. L., & Short, K. (2008). SPARK: Physical Education Program, Grades K-2. San Diego State University Foundation: San Diego, CA. (includes 16 sections and an Instructional Media Disk [DVD]).
- McKenzie, T. L., Rosengard, P., & Williston, B. J. (2006). *SPARK Physical Education Program, Grades 3-6*. San Diego: San Diego State University Foundation. (www.sparkpe.org) [30 sections, 20 instructional units; Instructional Media Disk [DVD] with 450 skill and task cards and assessment materials]
- Kimbrell, P., Richey, P., Rosengard, P., & McKenzie, T. L. (2003). *SPARK: Early Childhood/Preschool Program*. San Diego: SDSU Foundation.
- Rosengard, P., & McKenzie, T. L. (2001). *SPARK Physical Education Program, Grades 6-8*. San Diego: SDSU Foundation. (21 sections, 322 pages)
- Rosengard, P., McKenzie, T. L., Short, K., & Strelow, J. (2000). *SPARK: Active Recreation, Ages 5-14*. San Diego: SDSU Foundation.
- Goggin, K., Williston, J., Rosengard, P., Bernal, R., Sallis, J., & McKenzie, T. L. (1993). *SPARK Lifelong Wellness, Level I*. San Diego: SDSU Foundation. (116 pages)
- Armstrong, C., Rosengard, P., Condon, A., Sallis, J., Bernal, R., & McKenzie, T. L. (1993). *SPARK Lifelong Wellness, Level II*. San Diego: SDSU Foundation. (97 pages)

*Note: The Lifelong Wellness curricula are no longer available for sale. They have been replaced by the SPARK Coordinated School Health materials. Click here for more information <http://www.sparkpe.org/coordinated-school-health/>