Dr Andy Sparks - Publications and Conference Communications

Publications

Peer-Reviewed Journal Articles

- 1. Sheridan, A., Marchant, D.C., Williams, E.L., Jones, H., Hewitt, P.A., and **Sparks, S.A**. (2017). The Presence of Spotters Improves Bench Press Performance: A Deception Study. *Journal of Strength and Conditioning Research (In Press)*.
- 2. Gough, L., Deb., S.K., **Sparks, S.A**., and McNaughton, L.R. (2017). The reproducibility of 4 km time trial (TT) performance following individualised sodium bicarbonate supplementation: a randomised controlled trial in trained cyclists. *Sports Medicine Open (In Press)*.
- 3. Boya, M., Foulsham, T., Hettinga, F., Parry, D., Williams, E., Jones, H., **Sparks, S.A.**, Marchant, D., Ellison, P., Bridge, C., McNaughton, L., and Micklewright, D. (2017). Information acquisition differences of experienced and novice time trial cyclists. *Medicine and Science in Sports and Exercise*, 49(9):1884-1898. DOI: 10.1249/MSS.000000000001304.
- 4. Deb, S.K., Gough, L., **Sparks, S.A**., and McNaughton, L.R. (2017). Determinants of curvature constant (W') of the power duration relationship under normoxia and hypoxia: the effect of pre-exercise alkalosis. *European Journal of Applied Physiology*, 117(5):901-912. DOI: 10.1007/s00421-017-3574-4.
- Gough, L., Deb, S., Sparks, S.A., and McNaughton, L.R. (2017). The Reproducibility of Blood Acid Base Responses in Male Collegiate Athletes Following Individualised Doses of Sodium Bicarbonate: A Randomised Controlled Crossover Study. Sports Medicine (In Press). DOI: 10.1007/s40279-017-0699-x.
- 6. **Sparks, S.A**., Williams, E.L., Bentley, D., Bridge, C.A., and McNaughton, L.R. (2017). Sodium bicarbonate ingestion and individual variability in time to peak pH. *Research in Sports Medicine*, 25(1): 58-66. DOI: 10.1080/15438627.2016.1258645.
- 7. Baxter, C., McNaughton, L.R., **Sparks, S.A.**, Norton, L., and Bentley, D. (2017). Impact of stretching on the performance and injury risk of long distance runners. *Research in Sports Medicine*, 25(1):78-90. DOI: 10.1080/15438627.2016.1258640.
- 8. Owens, D.J., Tang, J.C.Y., Bradley, W.J. **Sparks, S.A**., Fraser, W.D., Morton, J.P., and Close, G.L. (2017). Efficacy of high dose vitamin D supplements for elite athletes. *Medicine and Science in Sports and Exercise*, 49(2):349-356. DOI: 10.1249/MSS.000000000001105.
- 9. **Sparks, S.A**., Williams, E.L., Jones, H.S., Bridge, C.A., Marchant, D., and McNaughton, L.R. (2016). Test-retest reliability of a 16.1 km time trial in trained cyclists using the CompuTrainer ergometer. *Journal of Science and Cycling*, *5*(3):35-41.
- Mosher, S., Sparks, S.A., Williams, E.L., Bentley, D., and McNaughton, L.R. (2016). Ingestion of a nitric oxide enhancing supplement improves resistance exercise performance. *Journal of Strength and Conditioning Research*, 30(12):3520-3524. DOI: 10.1519/JSC.000000000001437.
- Williams, E.L., Jones, H.S., Sparks, S.A., Marchant, D., Bridge, C.A., Midgley, A.W., and McNaughton, L.R. (2016). Deceptive manipulation of competitive starting strategies influences subsequent pacing, physiological status and perceptual responses during cycling time trials. *Frontiers in Physiology*. 7:536. DOI: 10.3389/fphys.2016.00536.

- Jones, H.S., Williams, E.L., Marchant, D., Sparks, S.A., Bridge, C.A., Midgley, A.W., and McNaughton, L.R. (2016). Improvements in cycling time trial performance are not sustained following the acute provision of challenging and deceptive feedback. *Frontiers in Physiology*, 7:399. DOI: 10.3389/fphys.2016.00399.
- 13. Ward, R., Bridge, C.A., Mc Naughton, L.R., and **Sparks, S.A**. (2016). Acute taurine ingestion has no effect on 4 km time trial performance in trained cyclists. *Amino Acids*, 48(11):2581-2587. DOI: 10.1007/s00726-016-2282-4.
- McNaughton, L.R. Gough, L., Deb, S., Bentley, D., and Sparks, S.A. (2016). Recent developments in the use of sodium bicarbonate as an ergogenic aid. *Current Sports Medicine Reports*, 15(4):233-44. DOI: 10.1249/JSR.000000000000283.
- Jones, H.S, Williams, E.L., Marchant, D.C., Sparks, S.A., Midgley, A.W., Bridge, C.A., and McNaughton, L.R. (2016). Deception has no Acute or Residual Effect on Cycling Time Trial Performance but Negatively Effects Perceptual Responses. *Journal of Science and Medicine* in Sport, 19(9):771-6. DOI: 10.1016/j.jsams.2015.12.006.
- Miller, P., Robinson, A., Sparks, S.A., Bridge, C.A., Bentley, D., and McNaughton, L.R. (2016). The effects of novel ingestion of sodium bicarbonate on repeated sprint ability. Journal of Strength and Conditioning Research. 30(2) 561-568. DOI: 10.1519/JSC.000000000001126.
- Williams, E.L., Jones, H.S., Sparks, S.A., Marchant, D.C., Midgley, A.W., and McNaughton, L.R. (2015). Altered psychological responses to different magnitudes of deception during cycling. *Medicine and Science in Sports and Exercise*, 47(11):2423-2430. DOI: 10.1249/MSS.000000000000000694.
- Sparks, S.A., Dove, B., Bridge, C.A., Midgley, A.W., and McNaughton, L.R. (2015). Validity and Reliability of the Look Power Pedal System for Measuring Power during Incremental and Repeated Sprint Cycling. *International Journal of Sports Physiology and Performance*, 10: 39-45. DOI: 10.1123/ijspp.2013-0317.
- Jones, H.S., Williams, E.L., Marchant, D., Sparks, S.A., Midgley, A.W., Bridge, C.A., and McNaughton, L.M. (2015). Distance-dependent Association of Affect with Pacing Strategy in Cycling Time Trials. *Medicine and Science in Sports and Exercise*. 47(4): 825-832). DOI: 10.1249/MSS.0000000000000075.
- 20. Williams, E.L., Jones, H.S., **Sparks, S.A**., Marchant, D.C., Midgley, A.W., and McNaughton, L.R. (2015). Competitor presence reduces internal attentional focus and improves 16.1km cycling time trial performance. *Journal of Science and Medicine in Sport*, 18(4): 486-491. DOI: 10.1016/j.jsams.2014.07.003.
- 21. **Sparks, S.A**. and Hilton, N. (2015). A quantification of the treadmill six-minute walk test using the MyWellness Key[™] accelerometer. *Journal of Sport and Health Sciences*. 4(2): 188–194. DOI: 10.1016/j.jshs.2013.09.005.
- 22. Williams, E.L., Jones, H.S., **Sparks, S.A**., Marchant, D., Micklewright, D., and Mc Naughton, L.R. (2014). Deception studies manipulating centrally acting performance modifiers: A review. *Medicine and Science in Sports and Exercise*, 46(7):1441-51. DOI: 10.1249/MSS.000000000000035.
- 23. Wilson, G., Hawken, M.B., Poole, I., **Sparks, S.A.**, Bennett, S., Drust, B., Morton, J., and Close, G.L. (2014). Rapid weight-loss impairs simulated riding performance and strength in jockeys: implications for making-weight. *Journal of Sports Sciences*, 32(4):383-91. DOI: 10.1080/02640414.2013.825732.

- 24. Ellison, P.H., **Sparks, S.A**., Carnegie, E., Murphy, P., and Marchant, D. (2014). Determining eye-hand co-ordination using the sport vision trainer (SVT™): an evaluation of test-retest reliability. *Research in Sports Medicine*, 22(1):36-48. DOI: 10.1080/15438627.2013.852090.
- 25. **Sparks, S.A**., Chandler, P., Bailey, T.G., Marchant, D.C., and Orme, D. (2013). The energy demands of portable gas analysis system carriage during walking and running. *Ergonomics*, 56(12):1901-7. DOI: 10.1080/00140139.2013.839830.
- 26. **Sparks, S.A**., MacLaren, D.P.M., Bridge, N.E., Cable, N.T., Doran D.A. (2013). Laboratory Simulated Duathlon Performance: Effects of Pre-Exercise Meals. *International Journal of Sports Nutrition and Exercise Metabolism.* 23: 610-616. DOI: 10.1123/ijsnem.23.6.610.
- 27. Wood, S.J., Khalil, B., Fusaro, F., Folaranmi, S.E., **Sparks, S.A.**, and Morabito, A. (2013). Early structured surgical management plan for neonates with short bowel syndrome may improve outcomes. *World Journal of Surgery*, 37(7):1714-1717. DOI: 10.1007/s00268-013-2011-z.
- 28. Wilson, G., **Sparks, S.A.**, Drust, B., Morton, J.P., and Close, G.L. (2013). Assessment of energy expenditure in elite jockeys during simulated race-riding and a working day: Implications for making-weight. *Applied Physiology, Nutrition and Metabolism*, 38(4):415-20. DOI: 10.1139/apnm-2012-0269.
- 29. **Sparks, S.A**., and Close, G.L. (2013). Criterion validity of a portable urine refractometer and the effects of sample freezing. *Journal of Sports Sciences*, 31(7):745-9. DOI: 10.1080/02640414.2012.747693.
- 30. Balshaw, T.G., Bampouras, T., Barry, T.J., and **Sparks, S.A**. (2013). The effect of acute taurine ingestion on 3 km running performance in trained middle distance runners. *Amino Acids*, 44(2):555-61. DOI: 10.1007/s00726-012-1372-1.
- 31. **Sparks, S.A.**, Orme, D., and Mc Naughton, L.R. (2013). The effect of carrying a portable respiratory gas analysis system on energy expenditure during incremental running. *Applied Ergonomics*, 44(3):355-9. DOI: 10.1016/j.apergo.2012.09.005.
- 32. Stiegler, P., **Sparks, S.A.**, & Cunliffe, A. (2008). Moderate exercise, postprandial energy expenditure, and substrate use in varying meals in lean and obese men. *International Journal of Sport Nutrition and Exercise Metabolism*, 18(1): 66-78. DOI: 10.1123/ijsnem.18.1.66.
- 33. **Sparks, S.A.**, Cable, N.T., Doran, D.A., and MacLaren, D.P.M. (2005). The influence of environmental temperature on duathlon performance. *Ergonomics*, 48 (11-14):1558-1567. DOI: 10.1080/00140130500101254.

Book Chapters

1. McNaughton, L.R., Bentley, D., and **Sparks S.A**. (2016). Manipulating dietary glycemic index as a means of improving exercise and sports performance. In: *The Glycemic Index: Applications in Practice*, Elena Philippou (Editor). CRC Press, London, UK. ISBN: 9781498703666.

Professional Publications

1. Ellison, P.H., **Sparks, S.A**., Carnegie, E., Murphy, P., and Marchant, D. (2014). Sports Vision Trainer Studies. *The Vision Care Institute – Johnson & Johnson (Columbia)*: April-June News Edition.

2. **Sparks, S.A.**, (2008). The vital but problematic process of dehydration. *Professional Strength and Conditioning: Journal of the UK Strength and Conditioning Association*, (9).

Peer Reviewed Conference Communications

- 1. Deb, S., Gough, L., **Sparks, SA**., and McNaughton, LR. Determinants of W' in the power duration relationship in normoxia and hypoxia: the effect of induced alkalosis. *British Association of Sport and Exercise Sciences Annual Conference, (Nottingham, UK, November, 2016)*.
- 2. Gough, L., Deb, S., **Sparks, SA**., and McNaughton, LR. The reproducibility of blood acid base responses following different doses of NaHCO₃. *British Association of Sport and Exercise Sciences Annual Conference, (Nottingham, UK, November, 2016*).
- 3. Blennerhassett, C.L., McNaughton, L.R., and **Sparks, S.A**. Factors that influence the food choices of ultra-endurance athletes during prolonged training and competition. 3rd International Congress of Medicine and Science in Ultra-Endurance Sports, (Chamonix, France, August 2016).
- 4. McNaughton, L.R., **Sparks, S.A.,** Williams, E.L., Bentley, D., and Mosher, S. Ingesting a nitric oxide enhancing supplement improves resistance exercise performance. 6th Annual Meeting of Exercise and Sport Science Australia, (*Melbourne, Australia, April 2016*).
- 5. Williams, E.L., Jones, H.S., **Sparks, S.A**., Midgley, A.W., Marchant, D., Bridge, C.A., and McNaughton, L.R. Influence of manipulated start strategies on performance and perceptual responses during cycling. *British Psychological Society, Division of Sport and Exercise Psychology Conference, (Leeds, UK, December 2015).*
- Jones, H.S., Williams, E.L., Sparks, S.A., Midgley, A.W., Marchant, D., Bridge, C.A., and McNaughton, L.R. Effects of previous performance beliefs on perceptual responses and performance in 16.1 km cycling time trials. *British Psychological Society, Division of Sport* and Exercise Psychology Conference, (Leeds, UK, December 2015).
- 7. Boya, M., Foulsham, T., Hettinga, F., Parry, D., Williams, EL., Jones, HS., **Sparks, SA**., Marchant, D., Ellison, P., Bridge, C., Midgley, A., McNaughton, L. and Micklewright D. Differences between experienced and novice cyclists in information seeking, selection and utilization during 10 mile time trial. *Science in Cycling Conference, (Utrecht, The Netherlands, July 2015)*.
- 8. **Sparks, S.A**., Bridge, C.A., Bell, M.T., and Lindsay, C. Nutritional practices in trained cyclists prior to and during an ultra-endurance cyclosportive. 20th Annual Congress of the European College of Sport Science (Malmo, Sweden, June 2015).
- 9. McNaughton, L., Miller, P., Robinson, A., **Sparks, S.A**., Bridge, C.A., Bentley D.J. Influence of an acute dose of sodium bicarbonate on buffering capacity and performance during RSA. 62nd Annual Meeting of the American College of Sports Medicine, (San Diego, CA, USA, May 2015).
- Jones, H.S., Williams, E.L., Marchant, D.C., Sparks, S.A., Midgley, A.W., Bridge, C.A., McNaughton, L.R. Deception Has No Residual Effect On Perceptual Responses Or Time Trial Performance. 62nd Annual Meeting of the American College of Sports Medicine, (San Diego, CA, USA, May 2015).
- 11. Williams, E.L., Jones, H.S., **Sparks, S.A**., Marchant, D.C., Midgely, A.W., Bridge, C.A., McNaughton, L.R. Magnitudes of Deception Elicit Similar Performance Improvements but

- Diverse Psychological Responses during Cycling Time Trials. 62nd Annual Meeting of the American College of Sports Medicine. (San Diego, CA, USA, May 2015).
- 12. Sharma, A., **Sparks, S.A.**, McNaughton, L.R., Govus, A., and Bentley, D.J. Differences in power output between national and club level cyclists during a new variable power cycling test. *World Congress of Science in Cycling*, (Leeds, UK, July 2014).
- 13. Ellison, P.H., **Sparks, S.A**., Murphy, P., and Marchant, D.C. The Impact of an Eye-Hand Coordination Intervention in Experienced Older Table Tennis Players. *Expertise, and Skill Acquisition Network Conference, (Sheffield, UK, April 2014)*.
- 14. Lindsay, C., Welford, D., Cobb, R., Etxeberria, A., Ammann, K., Sparks, S.A., and Costa, R. Nutritional Status and Body Mass Changes of a 66 Year Old Ultra-endurance Athlete During a 3000 mile Challenge Over 100 Consecutive Days: A Case Study. *International Sport and Exercise Nutrition Conference*, (Newcastle, UK, December 2013).
- 15. Ellison, P.H., **Sparks, S.A**., Murphy, P.N., and Marchant, D.C. Training in the dark: the influence of illumination on eye-hand coordination training. *British Psychological Society, Division of Sport & Exercise Psychology Conference (Manchester, UK December 2013).*
- 16. **Sparks, S.A**., and Close, G.L. Criterion validity of a portable urine refractometer and the effects of sample storage. 17th Annual Congress of the European College of Sport Science (Bruges, Belgium, July 2012).
- 17. Orme, D., Relph, N., and **Sparks, S.A**. The relationship between maximal fat oxidation rates and blood lactate thresholds in runners. 17th Annual Congress of the European College of Sport Science (Bruges, Belgium, July 2012).
- 18. McNaughton, L.R., Orme, D., and **Sparks, S.A**., The effect of carrying a portable respiratory gas analysis system on energy expenditure during incremental running. 59th Annual Meeting of the American College of Sports Medicine (San Francisco, USA, May 2012).
- 19. Ellison, P., Marchant, D., **Sparks, S.A**., and Murphy, P. A familiarisation strategy for the Sport Vision Trainer is independent of experience. *Sports Vision Conference, (Las Vagas, USA. January 2012)*.
- 20. **Sparks, S.A**., Bailey, T., Chandler, P., and Orme, D. The effect of using a portable gas analysis system on energy expenditure during submaximal exercise. *16th Annual Congress of the European College of Sport Science (Liverpool, UK, July 2011)*.
- 21. Ellison, P.H., and **Sparks, S.A**. Can Turnitin[™] operate as a formative feedback mechanism to improve writing development for sport and exercise science students? 16th Annual Congress of the European College of Sport Science (Liverpool, UK, July 2011).
- 22. Ellison, P.H., **Sparks, S.A**., Murphy P.N., Carnegie, E., and Marchant, D.C. A familiarisation strategy for the Sport Vision Trainer is independent of experience. *The British Psychological Society Division of Sport and Exercise Psychology Conference (London, UK, December 2010).*
- 23. Balshaw, T.G., Bampouras, T., Barry, T.J., and **Sparks, S.A**. The acute effect of taurine ingestion on 3 km running performance and force in trained middle distance runners. 14th Annual Congress of the European College of Sport Science (Oslo, Norway, July 2009).
- 24. **Sparks, S.A**., and Orme, D. The effect of carrying a portable respiratory gas analysis system on energy expenditure during incremental running. *14th Annual Congress of the European College of Sport Science (Oslo, Norway, July 2009)*.

- 25. **Sparks, S.A.**, N.E. Bridge., Cable, N.T., Doran, D.A., and MacLaren, D.P.M. The effect of pre-exercise dietary manipulation on ATP utilisation and metabolism during simulated duathlon time-trial performance. 12th Annual Congress of the European College of Sport Science (Jyyäskylä, Finland, July 2007).
- 26. Jutley, S., Taylor, S.R., Donovan, T., and **Sparks, S.A**. A comparison of the anthropometric characteristics of amateur club level rowers. *6th Conference on Sport, Leisure and Ergonomics, (Burton Manor, Cheshire, England, November 2007).*
- 27. Stiegler, P., **Sparks, S.A**., Reid, A., Knights, B., Cunliffe, A. The effect of the macronutrient composition of a meal consumed post-exercise on fat oxidation. *Annual Presentations by Younger Researchers at the House of Commons, (London, March 2006).*
- 28. Stiegler P., **Sparks, S.A**., Reid, A., Knights, B., Cunliffe, A. Comparison of the BOD POD, skinfold measures, and bioelectrical impedance analysis for estimating percentage body fat. 7th International Symposium: In Vivo Body Composition Studies (Southampton Meeting, August 2005).
- 29. **Sparks, S.A**., N.E. Bridge., Cable, N.T., Doran, D.A., and MacLaren, D.P.M. Serum prolactin responses to duathlon performance following pre-exercise dietary manipulation. *The Physiological Society General Meeting (Kings College London, December 2004)*.
- 30. **Sparks, S.A.**, N.E. Bridge., Cable, N.T., Doran, D.A., and MacLaren, D.P.M. Metabolic responses to duathlon performance following pre-exercise meals. *The Physiological Society General Meeting (Cambridge University, December 2003)*.
- 31. **Sparks, S.A**., Cable, N.T., Doran, D.A., and MacLaren, D.P.M. The influence of environmental temperature on duathlon performance. 5th International Conference on Sport, Leisure and Ergonomics (2003).
- 32. **Sparks, S.A.**, Doran, D.A. and Nevill, A.M. The influence of cycling time trial pacing on subsequent 10 km running performance. *4th International Conference on Sport, Leisure and Ergonomics (1999)*.