

CURRICULUM VITAE – DR ANDREW NEIL MCLEAN

PROFESSION: Clinical ethologist/horse trainer/working elephant trainer.

ACADEMIC BACKGROUND

- Specialist academic areas are Animal Cognition (animal mental processes) and Equine learning/Training Psychology.
- PhD thesis (University of Melbourne) entitled “The Mental Processes of the Horse and their Consequences for Training” (PhD Scholarship 1994-1996).
- Bachelor of Science degree (double major in zoology).
- Diploma of Education, University of Tasmania.

PROFESSIONAL

- CEO ESI (Equitation Science International)
- Founder AEBC (The Australian Equine Behaviour Centre)
- Chairman, The HELP Foundation (Human Elephant Learning Programs)
- Board member PCA (Pony Club Australia)
- Co-Founder ISES (The International Society for Equitation Science)
- Former President of ISES (The International Society for Equitation Science)
- Co-Founder HELP (Human Elephant Learning Programs)
- Former and Founding President of VEA (The Victorian Event Riders Association)
- Former President of TEA (The Tasmanian Eventing Association)

ACADEMIC AWARDS AND POSITIONS

- Honorary Fellow of the International Society for Equitation Science (2015)
- Eureka Science Prize, 2011 (co-winner)
- John H Daniels Fellowship, 2014. National Sporting Library, Virginia, USA.
- Flambo Award - The Italian Equestrian Sports Federation for Ethics, Culture, Science and Sport
- Honorary Associate, Faculty of Veterinary Science, University of Sydney

FORENSIC ETHOLOGY

- Expert witness in Australia, New Zealand and Ireland since 1998.

OTHER PROFESSIONAL ACTIVITIES

- Television show, Pets Behaving Badly, 2000.
- Produced outline for the training manual for the Western Australia Mounted Police and the Federal Belgian Police.
- Developed methods of loading horses into race stalls currently used by the New York Racing Association (Saratoga, Belmont and Aqueduct racetracks).
- Designed and conducted subsequent research for state-of-the-art, horse-friendly starting gates for Steriline Pty Ltd, the world’s leading manufacturer of race starting gates.

EQUESTRIAN SPORT ACHIEVEMENTS

- Represented Australia in eventing (Three Day Event) in 1989.
- Shortlisted for World championships, (3DE) 1990.

- State and National titles in both dressage and eventing.
- Represented Tasmania four times and Victoria twice in eventing.
- Represented Victoria in FEI dressage.
- Trained to Grand Prix level in dressage.
- Competed successfully in show jumping to Grand Prix level.
- Trained International Prix St George Derby winner, CDI, 2004.
- Trained Woodmount Magic, (first Australian-trained Eventing stallion sold to Europe), 1995.
- Raced in bareback races in Australia and New Zealand (1974 to 1981).
- Held a race trainer's licence from 1985 to 1991.
- Institute of Sport scholarship 1990, 1991.
- Olympic Academy delegate, 1991.

ACADEMIC JOURNAL PUBLICATIONS

1. Davies, M., Hawson, L., McLean, A., McGreevy, P. 2011. Methodology for the use of rein tensiometers in analyzing rein tension in the ridden horse (*Equus caballus*): a review. 7th International Equitation Science Conference, the Netherlands: Wageningen Academic Publishers.
2. DeAraugo, J., McLean, A., McLaren, S., Casper, G., McLean, M., McGreevy, P. 2014. Training methodologies differ with the attachment of humans to horses. *Journal of Veterinary Behavior*, 9 (5), 235-241.
3. Goodwin, D., McGreevy, P.D., Waran, N., McLean, A.N., 2009. How equitation science can elucidate and refine horsemanship techniques. *The Veterinary Journal* 181, 5–11.
4. Hawson, L., Koprinska, I., McLean, A., McGreevy, P. 2011. Deciphering the cues from riders' legs. 7th International Equitation Science Conference, the Netherlands: Wageningen Academic Publishers.
5. Hawson, L., McLean, A., McGreevy, P. 2013. A retrospective survey of riders' opinions of the use of saddle pads in horses. *Journal of Veterinary Behavior*, 8 (2), 74-81.
6. Hawson, L., Oddie, C., McLean, A., McGreevy, P. 2011. Is safety valued in the Australian pony market? *Journal of Veterinary Behavior*, 6(5), 254-260.
7. Hawson, L., Salvin, H., McLean, A., McGreevy, P. 2014. Riders' application of rein tension for walk-to-halt transitions on a model horse. *Journal of Veterinary Behavior*, 9 (4), 164-168.
8. Hawson, L.A., McLean, A.N., McGreevy, P.D., 2010. The roles of equine ethology and applied learning theory in horse-related human injuries. *Journal of Veterinary Behavior: Clinical Applications and Research*. 5, 324-338.
9. Hawson, L.A., McLean, A.N., McGreevy, P.D., 2010. Variability of scores in the 2008 Olympics dressage competition and implications for horse training and welfare. *Journal of Veterinary Behavior: Clinical Applications and Research*. 5, 170-176.
10. Hill, E., McGreevy, P.D., White, P., Caspar, G., McLean, A.N., 2015. The distribution of apparatus in popular equestrian disciplines. *Journal of Veterinary Behavior*, 10. 147-152.
11. McGreevy, P., Hawson, L., Salvin, H., McLean, A. 2013. A note on the force of whip impacts delivered by jockeys using forehand and backhand strikes. *Journal of Veterinary Behavior*, 8(5), 395-399.
12. McGreevy, P., Henshall, C., Starling, M., McLean, A., Boakes, R. 2014. The importance of safety signals in animal handling and training. *Journal of Veterinary Behavior*, 9 (6), 382-387.
13. McGreevy, P., McLean, A., Buckley, P., McConaghy, F., McLean, C. 2011. How riding may affect welfare: What the equine veterinarian needs to know. *Equine Veterinary Education*, 23(10), 531-539.

14. McGreevy, P., Oddie, C., Hawson, L., McLean, A., Evans, D. 2015. Do vendors value safety in Thoroughbred horses in the Australian recreational riding horse market? *Journal of Veterinary Behavior*, 10 (2), 153-157.
15. McGreevy, P., Sundin, M., Karlsteen, M., Berglin, L., Ternstrom, J., Hawson, L., Richardson, H., McLean, A.N. 2014. Problems at the human- horse interface and prospects for smart textile solutions. *Journal of Veterinary Behavior*, 9 (1), 34-42.
16. McGreevy, P.D., Burton, F.L., McLean, A.N., 2009. The horse–human dyad: Can we align horse training and handling activities with the equid social ethogram? *The Veterinary Journal*. 181 (2009) 12–18.
17. McGreevy, P.D., Harman, A., McLean, A.N., Hawson, L.A. 2010. Over-flexing the horse’s neck: a modern equestrian obsession? *Journal of Veterinary Behavior: Clinical Applications and Research*. 5, 180-186.
18. McGreevy, P.D., McLean, A.N., 2006. Ethological challenges for the working horse and the limitations of ethological solutions in training. 2nd International Equitation Science Symposium, Milan, Italy. Eds: M. Minero, E. Canali, A. Warren-Smith, A. McLean, D. Goodwin, Mari Zetterqvist, N. Waran, P. McGreevy.
19. McGreevy, P.D., McLean, A.N., 2007. The roles of learning theory and ethology in equitation. *Journal of Veterinary Behavior: Clinical Applications and Research*, 2, 108-118.
20. McGreevy, P.D., McLean, A.N., 2009. Punishment in horse-training and the concept of ethical equitation. *Journal of Veterinary Behavior*. 4, 193-197.
21. McGreevy, P.D., McLean, A.N., Thomson, P.C., 2009b. SMART: Sensitivity Models for Animals in Response to Training. *The Veterinary Journal*.
22. McGreevy, P.D., McLean, A.N., Warren-Smith, A.K., Waran, N., Goodwin D., 2005. Defining the terms and processes associated with equitation. Proceedings of the 1st International Equitation Science Symposium, Broadford, Victoria, pp.10-43. Eds: P. McGreevy, A. McLean, N. Waran, D. Goodwin, A. Warren-Smith. Post-Graduate Foundation in Veterinary Science, Sydney.
23. McLean, A., Henshall, C., Starling, M., McGreevy, P. 2013. Arousal, attachment and affective state. *Proceedings of the 9th International Equitation Science Conference*, Eds: C. Heleski and C Wickens, University of Delaware. 50.
24. McLean, A., McGreevy, P.D., 2006. Reducing wastage in the trained horse – principles that arise from learning theory. Proceedings of the 2nd ISES Symposium, Milan, Italy.
25. McLean, A., McGreevy, P.D., 2010. Ethical equitation. Ethical equitation: Capping the price horses pay for human glory. *Journal of Veterinary Behavior* 5, 203-209.
26. McLean, A., McGreevy, P.D., 2010. Horse-training techniques that may defy the principles of learning theory and compromise welfare. *Journal of Veterinary Behavior* (2010) 5, 187-195.
27. McLean, A.N., 2001. Cognitive abilities: The result of selective pressures on food acquisition? *Applied Animal Behaviour Science*, 71, (3) 241-258.
28. McLean, A.N., 2004. Short-term spatial memory in the domestic horse. *Applied Animal Behaviour Science*, 85, 93-105.
29. McLean, A.N., 2005. The positive aspects of correct negative reinforcement. *Anthrozoös*, 18 (3).
30. McLean, A.N., 2008. Overshadowing: A silver lining to a dark cloud in horse training? *Journal of Applied Animal Welfare Science*, 11, 3, 236-248.
31. McLean, A.N., 2012. Training the ridden animal: An ancient hall of mirrors. *The Veterinary Journal*. Personal view invitation, 2012.
32. Oddie, C., Hawson, L., McLean, A., McGreevy, P. 2014. Do vendors value safety in the Australian recreational (non-Thoroughbred) riding horse market? *Journal of Veterinary Behavior*, 9, 375-381.

33. Pierard, M., Hall, C., König von Borstel, C., Averis, A., Hawson, L., McLean, A., Nevison, C., Visser, K., McGreevy, P. 2015. Evolving protocols for research in equitation science. *Journal of Veterinary Behavior*, 10, 255-266.
34. Ternström, J., Hawson, L., Gunnarsson, E., Engvall, T., Karlsteen, M., Sundin, M., Berglin, L., McLean, A.N., McGreevy, P.D., 2013. Applications and use of smart textiles and technology in equine science. *Proceedings of the 9th International Equitation Science Conference*, Eds: C. Heleski and C Wickens. University of Delaware Press /Associated University Press. 41.
35. Warren-Smith, A.K., McLean, A.N., Nicol, H.I., McGreevy, P.D., 2005. Variations in the timing of reinforcement as a training technique for foals. *Anthrozoös*, 18 (3) 255-272.
36. König v. Borstel, U., Kienapfel, K., McLean, A., Wilkins, C., Evans, D., McGreevy, P. 2015. Hyperflexing horses' necks – meta-analysis and cost-benefit evaluation. *Proceedings of the 11th International Conference of International Society for Equitation Science*. Eds: C. Heleski and K. Merkies. August 5-8, 2015. University of British Columbia, Vancouver, Canada. Page 20.
37. Starling, M. J., McLean, A. N., & McGreevy, P. D. (2015). The contribution of equitation science to minimising horse-related risks to humans. *Animals*, Submitted.

BOOK PUBLICATIONS

1. McGreevy, P.D., Winther Christensen, J. W., König von Borstel, U., McLean, A.N., *Equitation Science*. 2nd Edition. Published by Wiley-Blackwell, Chichester, UK.
2. McGreevy, P.D., McLean, A.N., 2010. *Equitation Science*. Published by Wiley-Blackwell, Chichester, UK.
3. McLean, A.N., McLean, M.M., 2008. *Academic Horse Training: Equitation Science in Practice*. Published by AEBC, Melbourne, Australia.
4. McGreevy, P.D., McLean, A.N., 2004. *Training*. In: *Equine Behaviour: A Guide for Veterinarians and Horse Professionals*. Published by W.B Saunders, London.
5. McGreevy, P.D., McLean, A.N., 2005. *Behavioural problems with the ridden horse*. In: *The Domestic Horse: The Evolution, Development and Management of its Behaviour*. Editors Professor Daniel Mills and Professor Sue McDonnell. Published by Cambridge Press, UK.
6. McLean, A.N., (2017) *Go forward Dear – The Life and Legacy of Tom Roberts*. Published by HorseSA, South Australia.
7. McLean, A.N., (2014) *Hasthisiksha: A Manual On The Science Of Training Captive Elephants*. Editors: Menon, V; Ashraf, NVK; Bhardwaj, D. Conservation. Reference Series 9. Wildlife Trust of India, New Delhi.
8. McLean, A.N., 2013. *Elephant-Friendly Training for Working Elephants*. Thailand, and Myanmar.
9. McLean, A.N., 2011. (Six contributions) In: *The Encyclopaedia of Applied Animal Behaviour and Welfare*. Editor-in-chief Professor Daniel Mills. Published by CAB International, Wallingford, UK.
10. McLean, A.N., 2004. *The Truth About Horses*. Published by David and Charles (UK), Penguin (Aust) and Barron's (USA), (International Best-Seller).
11. McLean, A.N., 2004. *Obedience Training For Racehorses*. Published by NMIT, Melbourne.
12. McLean, A.N., McLean, M.M., 2002. *Horse Training The McLean Way: The Science Behind The Art*. 2002. Published by AEBC, Melbourne, Australia.
13. McLean, A.N., 1978. *Cell biology and Genetics*. 1978. Published by The University of Tasmania Press.

CONFERENCE AND CONGRESS PRESENTATIONS

1. Presented at the International Horse Symposium '*Conflict behaviour in the domestic horse*', University of Sydney, July 2001
2. Presented at RSPCA conference '*Conflict behaviour in the domestic horse and how to avoid it*', Canberra, February 2002.

3. Key speaker for satellite meeting at the International Society of Applied Ethology congress in Venice, Italy on the topic: *'Learning principles – the missing link in Equitation'*, June 2003.
4. Presented at the International Society of Anthrozoology congress, Glasgow, October 2004 entitled: *'The positive aspects of correct negative reinforcement'*.
5. Presented at the First International Congress of Equine Ethology organized by the "Association des Vétérinaires Equins Français" in Nantes, France, entitled *'Behaviour problems in the domestic horse – associations with dysfunctions in negative reinforcement'* 2005
6. Presented at the First International Congress of Equine Ethology organized by the "Association des Vétérinaires Equins Français" in Nantes, France, entitled *'Development of behavioural problems: Applied Learning Theory'*, 2005
7. Presented at The Ecole Nationale d'Equitation, Saumur, France *'Le Dressage efficace pour le bien-être optimal'* (*'Effective Horse training for optimal welfare'*) 2005
8. FEI workshop on Röllkur: *Equitation and learning theory – positive and negative reinforcement*. Geneva, Switzerland January, 2006.
9. 2nd International Equitation Science Symposium, Milan, Italy: *Reducing wastage in the trained horse: training principles that arise from learning theory* September 2006
10. Global Dressage Forum, the Netherlands: *Learning theory: The New Frontier of Horse Training* October 2006
11. Global Dressage Forum, the Netherlands: *Training Principles and Learned Helplessness in horses*, October 2007.
12. 3rd International Equitation Science Symposium, Michigan, USA: *Overshadowing: A Silver Lining to a Dark Cloud in Horse Training* August 2007
13. Plenary Speaker at 6th ISES conference, Uppsala, Sweden August 2010: *Conflict Theory – The Missing Link in Equestrian Culture*.
14. Global Dressage Forum, the Netherlands: *Desensitisation Techniques in Sport Horses*. October, 2011.
15. Plenary Speaker, 8th ISES conference, Edinburgh, UK. *Distilling Equitation Science – Objectivity versus Subjectivity in Equine Behaviour Modification*, August, 2012.
16. Plenary Speaker, 9th ISES conference, Delaware, USA, *Can We Apply Attachment Theory to Horse/Human Interactions?* August, 2013.
17. Plenary Speaker, National Association of Equine Academics, Louisville, Kentucky. *Equitation Science – the last frontier in Equine Science*. June 26, 2014.
18. Plenary Speaker, Australian Equine Science symposium, Gold coast, Queensland, Australia. *Equitation Science – the last frontier in Equine Science*. July 20, 2014.
19. Plenary speaker, HETI (Horses in Equine Therapy International). *Learning and cognition in horses*. Tansui, Taiwan, June 21 -26.
20. Plenary speaker, 11th ISES conference, Vancouver, Canada. *Revisiting the 8 first Principles of Equitation Science*. August 5-7, 2015.

COACHING / EDUCATION

- Assisted Olympic Gold medallist Richard Davison (London, 2012) in dealing with behavioural problems.
- Coached Anky van Grunsven, 4 time Olympic Gold medal winner with behaviour problems at KWPN, Holland, 2007 and Imke Bartels 2 time Olympic Gold with young horses.
- Coached Jody Hartstone on Landioso, Donnerwind, and Whisper IV: New Zealand Grand Prix Dressage Champion, 2006, 2010 and Tri-Nations Cup winner 2007 (Johannesburg, South Africa) and highest placed NZ rider in 2008 Beijing Olympic qualifier.
- Coached the Indian Three Day Event team, Asia Pacific Games, 1995 (winning Bronze medal and India's first ever equestrian medal).

- Coached four State teams in the sport of Eventing at the National Junior Championships, South Australia.
- Lectured and demonstrated the psychology of training horses at EQUITANA 1999, 2001, 2003, 2005, 2008, 2010 and 2011.
- Demonstrated horse training at Roma Cavalli, Rome, June, 2012.
- Demonstrated horse training at British Horse Society, Kenilworth, Warwickshire, UK, 2010 and 2011.
- Lectured and demonstrated horse training at Haras de la Cense Expo, France, 2006.
- Hosted the 1st International Equitation Science Symposium, 2005 at the AEBC.
- Designed and implemented the training protocol for the Belgian Federal Police, Mounted Section, 2011.
- Bi-annual and annual lectures, clinics, seminars and demonstrations at: 7 Universities and Colleges in the UK (Lincoln, Nottingham-Trent, Moulton, Warwickshire, Hartpury, Duchy, Rodbaston); Belgium (Verviers and Ypres); Denmark (Copenhagen Vet school, Seborgaard Heste Center and Blueberry Hill Show-jumping Stables); Sweden, (Uppsala Equestrian Centre, Kulla-vreta and Sparreholms Slott); Finland (Tamisaara-Ekenás); France (ENE Saumur and Haras de la Cense, Rambouillet); USA (UCLA Davis, Missouri, Minnesota); Canada (Calgary, Fort Macleod, Vancouver, Kamloops and Cranbrook); Italy (Carabinieri headquarters, Rome); South Africa (Stellenbosch, Capetown and Johannesburg) and New Zealand (Auckland, Waikato, Wellington, Dunedin, Nelson and Christchurch) as well as all states of Australia.
- Elephant training workshops in Nepal (Bardia and Chitwan), India (Kerala, Orang, Guwahati and Kaziranga), Thailand (National elephant Institute of Thailand and the Royal Stables) and Myanmar with The HELP Foundation, (www.h-elp.org) since 2006.