

2 Day Equine Biomechanics Course

"Back Biomechanics and Horse & Rider Interaction"



## Introduction

Centaur Biomechanics is a leading biomechanical company, specialising in the biomechanics of the horse and rider, working with horses and riders of all levels from beginner through to Olympic level. Since 2011 Centaur has delivered biomechanics courses to the industry with specific courses being commissioned for ACPAT, IRVAP, SMS, IAT in the UK, Canada, Columbia and Italy. The aim of our courses is to share knowledge and provide the industry with some of the latest and most current research into equine performance.











## Introduction

Centaur Biomechanics carries out peer reviewed research and collaborates with internationally recognised research centres throughout the world in order to improve welfare, soundness and performance of the ridden horse. Russell, course leader and founder of Centaur Biomechanics, regularly presents his research at conferences internationally. Currently doing his PhD at the Royal Veterinary College, he is looking at horse and rider interaction - in particular how the saddle and rider affect the spinal kinematics and locomotion of the horse. Russell's research portfolio, expanding over ten years, has included projects looking at the effect that girths, bridles, surfaces, travelling and riders have on the horse.











### **Course Structure**

We pride ourselves on being able to offer a unique environment in which the learning experience is optimised. Using state of the art technology and bringing together some of the latest research into horse and rider interaction, our biomechanics courses are interactive, delivered in small groups. We combine both theory and practical sessions, all of which are supported by high speed videos taken from major events such as London 2012, Badminton, World Equestrian Games, Europeans along with images from dissections.









# Back Biomechanics and Horse & Rider Interaction Saturday 21<sup>st</sup> October & Sunday 22<sup>nd</sup> October

This 2 day course is in part delivered by Mark Fisher SMS Saddle Fitter,

#### London 2012 Saddle Fitter and Consultant Saddle Fitter to the BEF

Mark Fisher left the King's Troop RHA as the Master Saddler in 2004, after 22 years' service. In the army, he competed in eventing, where he reached intermediate level and in team chasing up to open level. He has also been involved in show jumping and hunts on a regular basis. He is a registered, qualified saddle fitter and regularly lectures and assesses for the Society of Master Saddlers (SMS). Mark works in conjunction with the British Equestrian Federation on the World Class Programme, operating the Pliance saddle pressure system, which is jointly owned by the BEF and the SMS. He is also employed as an overseas trainer for World Horse Welfare, where he works with horses in developing countries.





# Back Biomechanics and Horse & Rider Interaction Saturday 21<sup>st</sup> October & Sunday 22<sup>nd</sup> October

#### Saturday

- ✓ Back function and kinematics
- ✓ The horse the effect tack, surfaces, studs have on locomotion of the horse
- ✓ The rider effect that the rider has on back function and locomotion
- ✓ Optimising back function with various training methods
- ✓ Use and application of training aids and ground schooling
- ✓ Demands on elite and non elite horses

#### Sunday

- ✓ Subjective versus objective gait evaluation
- ✓ Importance of saddle balance
- ✓ Correcting saddle balance and reducing saddle roll
- √ Tips to evaluate saddle fit statically and dynamically
- ✓ Effect different seats have on rider biomechanics
- ✓ Inside the saddle what's best?

  Practical Sessions

# CENTAUR BIOMECHANICS

Bridget Middlebrough ► Centaur

Thank you Russell and team for a superb two days. My

brain is in overload but it was probably the most informative

**Biomechanics** 

23 October - @

## Biomechanics Course Feedback





totally inspirational and educational first day - little bit of

brain ache but that was 7 hrs full of everything i am

fascinated about, role on day 2 thanks centaur

feeling inspired.





Excellent course, Russell w moredibly possionate about his work which comes across. Good group size, easy to discuss + ask questions. Thoroughly enjoyed!



# **Course Summary**

Course Title: Back Biomechanics and Horse & Rider Interaction

Course Delivery: Russell Guire and Mark Fisher

Course Location: Centaur HQ, Moreton Morrell, Warks, CV35 9BD

Course Fee: £250.00 plus VAT

Lunch: Lunch included

Accommodation: Please see website or email the Centaur office

To Book: 4 options

- ✓ Download the booking form
- ✓ Pay via PayPal
- ✓ Call the office (+44 07788 978627)
- ✓ BACS









## To Book

- ✓ Download the booking form from the Centaur website
- ✓ Pay via PayPal (Account not required)
- ✓ Call the office (+44 07788 978627)
- **✓** BACS

To discuss please email <a href="mailto:info@centaurbiomechanics.co.uk">info@centaurbiomechanics.co.uk</a> or call 07788 978627





