

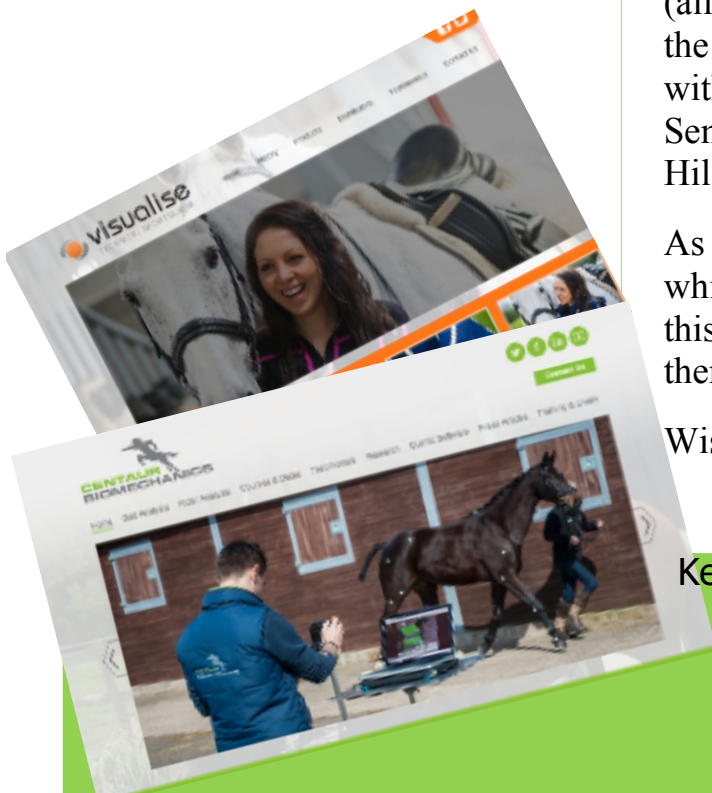
Centaur Biomechanics

Winter Newsletter - 2017

Issue 6 – December 2017



CENTAUR
BIOMECHANICS



Christmas is Coming...

What a year it has been – we hope that you are well and have had a great year.

We have been busy collecting data and writing up new research, as well as designing and launching new products (all to help riders improve their riding), plus we featured on the BBC. We have had a successful course programme with the highlight being our Equine Sports Science Seminar where we had world renowned researcher Prof. Hilary Clayton with us. It has been a fabulous year.

As we draw to the end of 2017 we look forward to 2018 which has some exciting new adventures planned. I love this time of year, the Centaur wheels slow down and for me there is time to spend with my family and friends.

Wishing you a Merry Christmas and Happy New Year.

Keep up to date with news, courses, products and events on our new and improved website.

www.centaurbiomechanics.co.uk

www.visualisesportsear.com

Equine Sports Science Seminar

This year's seminar was hugely popular, with over 200 delegates from all over the world descending on Hartpury College for what was billed to be an exciting event.

We were delighted to have one of the world's most iconic researchers with us - Prof. Hilary Clayton. Prof. Clayton shared some of her latest research and gave a detailed insight on all things to do with equine biomechanics.

It was an excellent day and a huge honour to welcome Prof. Clayton to our seminar. Next year's seminar is set to be equally excellent.

The vision behind the seminar is to bring some of the world's leading lights on equine sports science to the UK to share some of their research, ideas and thinking in order for professionals to evaluate and improve best practice.



Save The Date

The 2018 Equine Sports
Science Seminar

Saturday 13 October 2018
Hartpury College



Centaur Biomechanics on the BBC

We were thrilled to be asked by the BBC to take part in a short feature discussing our work and showcasing some of our systems. It was a great honour and privilege to show and discuss with Claire Balding equine locomotion and the influence that the rider has on the horse. It was all a bit surreal, the filming took place in the enclosed stable area...and amongst some of the world's best horses and eventers we were there with all of our systems and equipment. It was a great feature. If you missed it, it is available online at www.centaurbiomechanics.co.uk.

Massive thanks to the BBC, Centaur team and Imogen Murray who assisted with the feature.



Watch the BBC
interview on
Centaur Website or
You Tube

2018 Tour

Every year we travel abroad lecturing and working with horses and riders. Next year is set to be busy – we have planned visits to several parts of Europe along with our annual trip to Canada. We are also heading to Dubai and in November we are planning a trip to Australia coinciding with lecturing in Adelaide – it will be great fun – join the adventure on social media.

Objectivity App

In September, Centaur Biomechanics launched their new app, Objectivity. Objectivity is a simple video analysis suite. It allows users to capture footage, play back footage in slow motion, play back using split screen allowing comparison of two videos (i.e. before and after) and draw vertical and horizontal lines on it, take a picture, save and share. Best of all it is only £0.99. Sadly Objectivity is currently only available on Apple devices. Android version coming out 2018.



New Research in Horse-Rider-Saddle Interaction

We have been busy this year with data collection for six new projects all focusing on horse-rider-saddle interaction. We have now just finished three papers which will be submitted before Christmas. They are: 1) the influence of saddle balance on the horse, 2) the effect that rollers have on locomotion and 3) the effect that vibration therapy has on equine locomotion and symmetry. Over the Christmas period we will be pushing on with writing up a further three studies looking at the influence riders have on locomotion and the effect that tree width has on spinal movement in the horse, plus a few more projects which still need further analysis. As you can see we have been busy. A massive thank you to all of the co-authors, all those who have helped with data collection and, of course, the riders. Please keep an eye on the website for new papers or follow ups on social media where we will post the papers.

The “Vert”

We are delighted to be working with Prof. Hilary Clayton in bringing her new product “The Vert” into the UK. The Vert is an innovative tool which provides feedback to the rider on the horse’s head position in relation to the vertical in the ridden horse. When the nose is on the vertical a device with a light fitted to the top of the headpiece will illuminate green, when the nose goes behind the vertical the light will change to red. It’s an innovative tool designed to help riders evaluate head position. The Vert can be used on multiple horses and is calibrated on an iPhone. The Vert is available from the Centaur shop. Sadly, only available on Apple platforms.



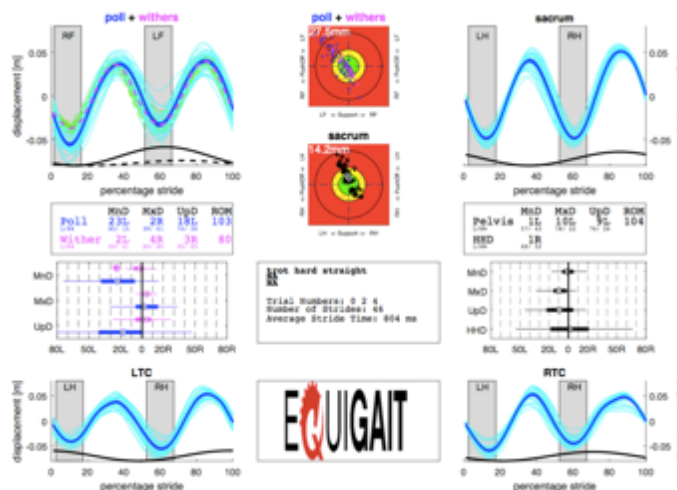
British Equine Veterinary Association Congress 2017 - BEVA

We were delighted that we had one of our new projects accepted for presentation at the prestigious annual British Equine Veterinary Association Congress in Liverpool. It was great to share this new project - looking at the effect that training rollers and training aids have on equine locomotion - to the veterinary and therapy profession. The abstract has now been published in the Equine Veterinary Journal with the full paper under review.



21st Century Gait Analysis – Inertial Measuring Sensors

We have added a new system to our objective biomechanics systems. We now have a nine unit inertial measuring system. This system when combined with our 2D motion capture has proved invaluable in our research and client cases. These sensors measure in 3D and give us mm differences in movement within the horse. We offer gait analysis sessions either at our centre or we can come to you. Please email the office for more information.



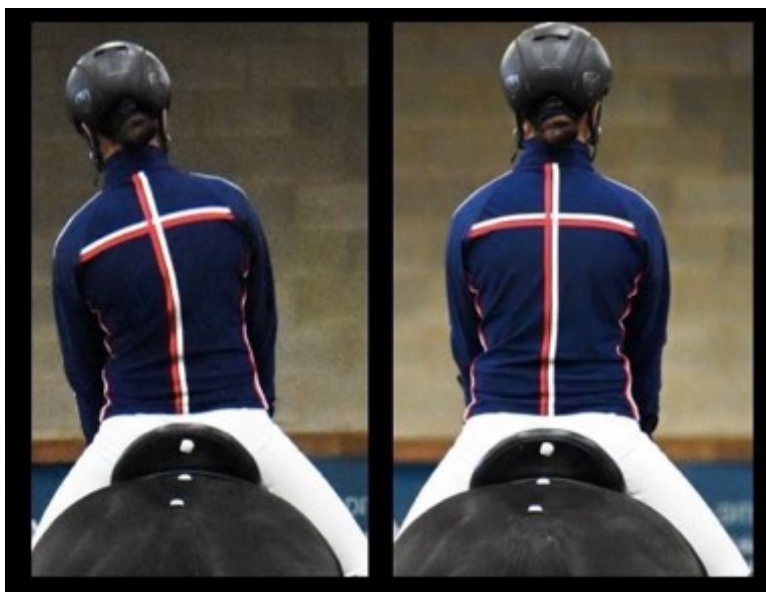
2018 Course Dates

We have had a successful 2017 course programme, attracting delegates from all corners of the UK and from all over the world – visitors from as far as New Zealand, Australia and America. This, our first year of our new course, “Back Biomechanics and Saddle Fitting” proved to be hugely popular. We are delighted that we have a full course programme planned for 2018. Please check out the website for details and venues.



Rider Biomechanics Session – Improve your Riding

These sessions are very popular with clinics being held all over the U.K and abroad. These sessions bring some of the latest technology and methods all geared to helping the rider improve their position and riding. We have a new FAQ sheet which helps organisers plan and manage their clinics. If you are interested in hosting a clinic or joining one, please email Sharon@centaurbiomechanics.co.uk or follow the website or social media.



Centaur Biomechanics at HOYS 2017

Sponsored by the Showing Register, Centaur Biomechanics alongside Erik Mackechnie presented a masterclass at Horse of Year Show 2017. This masterclass featured training principles alongside the influence that the rider has on the horse. Russell discussed various exercises riders can do to help improve their position.

Centaur Biomechanics Talks

Centaur Biomechanics presents all over the UK and abroad.

For dates on when and where Centaur Biomechanics will be presenting please keep an eye on the website or social media.



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