



Newsletter

ISSUE 17

MARCH 2019

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CMAS Annual Meeting 2019

18th Annual Meeting of the

Clinical Movement Analysis Society of the UK and Ireland

Thursday & Friday 25-26th April 2019

The 18th Annual Meeting of the Clinical Movement Analysis Society will be held in Sheffield, hosted by Sheffield Teaching Hospitals and Sheffield Children's Hospital. The meeting will be held at Sheffield Hallam University Cantor Building, just a few minutes' walk from the train station and city centre. There will be a full programme including keynote lectures, free paper presentations, case presentations, poster presentations, workshops and group discussion. There will also be plenty of opportunities for interaction with our exhibitors and other delegates attending the meeting.

The themes of this year's meeting are based around balance, how motion analysis can be used to investigate this and its impact on gait, and pushing the boundaries of clinical motion analysis. We have 3 well-respected keynote speakers:

- Dr Claudia Mazzà (PhD): Reader in Biomechanics, Department of Mechanical Engineering, INSIGNEO Institute for in silico Medicine, University of Sheffield.
Keynote Talk: Patient-specific musculoskeletal models: one step further for gait analysis?
- Professor Gabor Barton (MD, PhD): Professor of Clinical Biomechanics, School of Sport and Exercise Science, Liverpool John Moores University.
Keynote Talk: Advanced approaches to tackle complex data in clinical applications of movement analysis.
- Dr Raymond Reynolds (PhD): Senior Lecturer in Motor Control, School of Sport, Rehabilitation and Exercise Science, University of Birmingham.
Keynote Talk: Galvanic Vestibular Stimulation as a tool for both basic and applied motor control.

Registration:

Please see <https://www.cmas2019.org/registration> for full prices and link to registration payment page.

Abstracts:

Both oral and poster presentations are available.

Deadline for abstract submission is **Friday 1st March 2019**.

Best Paper Prize: sponsored by Vicon – registration to ESMAC 2019.

Best EMG Paper Prize: sponsored by Delsys – prize to be confirmed.

Please see <https://www.cmas2019.org/abstracts> for full guidelines and submission details.

Case Studies:

We will be requesting clinical labs with a delegate attending the conference, to also submit a clinical case study for presentation to the audience. The aim is to promote audience discussion on what novel techniques could be used to help provide further information to help treatment planning / improve outcomes.

Please see our website www.cmas2019.org for full event details.

Please email cmas2019@gmail.com with any questions or queries.



University of Sheffield Cantor Building; the venue for the conference.

CMAS Annual Meeting 2018 Report

The 17th Annual General Meeting of CMAS was hosted by the CRC Dublin team on the 12th and 13th April last. The meeting was held in the historic Engineer's Ireland building with over 70 delegates in attendance. The theme of the meeting was "I still haven't found what I'm looking for: Can motion analysis fill the gaps in unclear diagnoses?".

Over the course of the two days there were 3 invited speakers. Dr. Christopher Newman, a paediatric physiatrist who leads Lausanne University Hospital's child neurorehabilitation clinic, addressed the diverse uses of wearable devices for movement analysis in children with cerebral palsy of varying degrees of disability and in various environments. Dr. Dara Meldrum, a Research Fellow at the Academic Unit of Neurology, School of Medicine, Trinity College Dublin, spoke on vestibular contributions to gait and the hallmarks of impairment and methods of rehabilitation. And finally Dr Richter, a senior researcher and biomechanist/data analyst at the Sports Surgery Clinic, Dublin, spoke on how machine learning can overcome limitations of commonly used statistical approaches.

On the afternoon of the first day, the CMAS standards committee presented their standards and educational meeting. This was followed by the well-received National Biomechanics Day (NBD) challenge whereby videos of movement data, depicting scenes from famous films and prepared in advance by gait laboratory teams, were presented to delegates. A lively case presentation workshop followed with delegates finishing off the first day of talks with a drink in the members bar. The evening social events were held at the Old School House restaurant where drinks for the evening were kindly sponsored by Vicon.



The NBD Cupcake- awarded to the Dublin team for their 3D MoCap meets movies challenge

On the second day of the conference we heard from invited speakers and had a chance to flavour some research currently underway in the movement analysis community when 10 speakers presented their work in the free paper sessions. The event was concluded with prize giving which included prize for best presentation (sponsored by Vicon), delegate – exhibitor interaction prize (sponsored by Codamotion) and the NBD prize (sponsored by CproDirect).

We would like to thank all the delegates and exhibitors who attended.

Treasurer's Report

The latest CMAS accounts have been finalised for 2017/18 (period April 2017 to April 2018) and submitted to Companies House. The full report is available on the Companies House website. We currently have 16 labs fully accredited or currently going through the accreditation process. Accreditation and audit fees collected in 2017/2018 were £3750 and the full income for the year was £6,044. Expenditure was £4,429.17 the majority of which was spent on CMAS meetings (£1,269) and audit travel (1,250.46). The total surplus for the year was £1,614.83. This is slightly lower than the previous year, due to the timing of the income from the AGM in 2016/2017. The CMAS account at the end of the financial year (April 30th 2018) had a balance of £37,268. The next accounts will report the long awaited and needed reduction in the CMAS balance thanks to a successful small grants application process. ORLAU were the successful candidates for the first small grant funding and the transfer of the relevant funds is in progress.

National Biomechanics Day April 10, 2019

Biomechanics meets exoskeletons...



...on National Biomechanics Day

**Celebrating the 21st century's
breakthrough science**

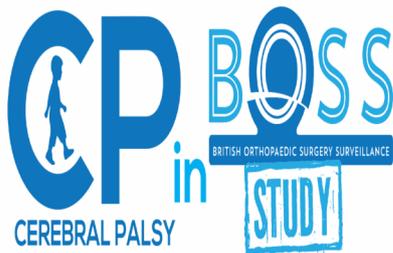
<http://nationalbiomechanicsday.asbweb.org/>

ORLAU Oswestry Gait Course June 2018

In June last year ORLAU ran their first gait course. It proved a very successful 3 days and was well received by those who attended with delegates attending from across the UK and Ireland as well as one from Brazil. Delegates included orthopaedic consultants and registrars, clinical scientists, physiotherapist and researchers. The course provided a mixture of lectures, practical workshops and patient case studies in small groups to help delegates understand and interpret both 2-D video vector analysis and 3-D gait analysis. A multi-disciplinary approach gave participants and awareness of how gait analysis can guide our management of mobility problems to improve patient outcomes. Delegate comments included “Learnt loads – thank you!”, “Very good, well organised and planned course.” and “You’ve built up the complexity in such a way that everything finally makes sense! “.

In view of the success of last year’s Gait Course ORLAU will be running a similar course this year from Wednesday 26th – Friday 28th June 2019. If anyone is interested for more information please contact Sarah at sarah.jarvis7@nhs.net





What is CPinBOSS?

A national prospective cohort study on the effects of Single Event Multi-Level Surgery (SEMLS) on gait and function in children with diplegic cerebral palsy (CP).

Why are we doing this?

This study was recently prioritised as one of the top-10 research priorities in children’s orthopaedics in a Delphi consensus amongst BSCOS members. This research was also prioritised as number 3 at a recent James Lind Alliance Priority Setting Partnership on paediatric lower limb surgery. The CPinBOSS study is similar to the successful BOSS study

Which patients are eligible?

- Bilateral CP
- Age 5-16 years
- GMFCS I-III
- Candidates for SEMLS (according to surgeon and/or gait lab)

What will be measured and by whom?

The process is the same as in the BOSS study. For all patients we will collect the following from the clinical teams:

- Standard Clinical Examination
- Gait data - Gait Profile Score
- FMS (Functional Mobility Scale)
- Surgical procedures and complications

For the consented patients the Oxford team will collect PROMS:

- GOAL (Gait Outcomes Assessment List)
- CP-QoL (Cerebral Palsy Quality of Life)

These will be recorded at baseline, 12 and 24 months

What are local clinical teams asked to do?

- Identify local PI
- Identify and recruit patients
- Enter data electronically on a bespoke database

The study will receive CLRN support for all sites

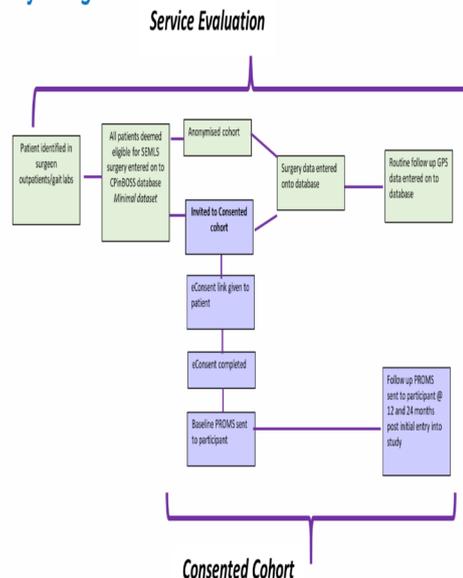
What will the Oxford Team do?

- Collate data.
- Corroborate data with HES extracts.
- Monitor engagement.
- Collect PROMS directly from patients / families.

What will be the output?

- Measure the number of SEMLS operations per year in the UK.
- Review regional variation.
- Assess clinical indications and surgeon factors.
- Assess and compare gait and function measures and PROMS at 12 and 24 months.
- All inclusive publications as “CP in BOSS team”.

Study Design



The Back Page

Current CMAS Committee:

CHAIR: Roisin Delaney

VICE CHAIR: Jennifer McCahill

TREASURER: Rory O'Sullivan

SECRETARY: Marietta Van Der Linden

COMMITTEE MEMBERS: Adam Shortland, Rob Freeman, Bart Koning, and Matt Thornton

Current CMAS Standards Committee:

CHAIR: Sarah Jarvis

AUDIT CO-ORDINATOR: Victoria Kidgell

COMMITTEE MEMBERS: Andy Lewis, Heather Read and Colm Daly

Webmaster: Andrew Lewis

Dates for your diary

Annual Meeting of ESMAC

Amsterdam, 23rd –28th September 2019 www.esmac2019.org

Gait Course—ORLAU Oswestry 26th – Friday 28th June 2019.

If anyone is interested for more information please contact Sarah at sarah.jarvis7@nhs.net

Future Annual Meetings

Belfast, Salford, Dublin Sheffield...

Could your organisation be the next to host the CMAS AGM and scientific meeting in 2020? CMAS would fully support any organisation volunteering to take on this challenging and rewarding task.

To express an interest, please contact Roisin Delaney (Chair of CMAS) to discuss further



Clinical Movement Analysis Society UK and Ireland

Website: www.cmasuki.org

General Information: info@cmasuki.org

Membership: membership@cmasuki.org

Standards Group: standards@cmasuki.org