



Newsletter

ISSUE 15

DECEMBER 2014

INSIDE THIS ISSUE:

Annual Meeting 2015 Announcement

CMAS Annual Meeting 2014 Report

Treasurer's Report

CMAS Teleconference Facility

Future CMAS Meetings

CMAS Education Initiative

Standards Update

The Next Generation of Clinical Movement Analysis Models

Committee Vacancies

Dates for your diary

CMAS Annual Meeting 2015

**14th Annual Meeting of the Clinical Movement Analysis Society of the UK and Ireland
Thursday & Friday 16-17th April 2015**

The 14th annual CMAS meeting will be held at the Nuffield Orthopaedic Centre and at Magdalen College, Oxford University. This year's theme will be *Surgical Procedures in the Treatment of Cerebral Palsy*. A number of guest speakers have been invited to share their knowledge on this topic and to participate in a debate discussing *What is the Role of SDR in the Treatment of Children with Cerebral Palsy in the UK and Ireland?* There will also be the opportunity for a number of free papers to be presented.

Guest Speakers:

Mr. Tim Theologis	Orthopaedic Surgery in the Lower Limbs
Mr. Guy Atherton	Orthopaedic Surgery in the Upper Limbs
Dr. Sebastian Wolf	Predicting and Controlling Functional Outcomes of Femoral De-rotation Osteotomy in Cerebral Palsy
Mr. Kristian Aquilina	Selective Dorsal Rhizotomy
Mr. Andrew Roberts	Selective Dorsal Rhizotomy vs. Multi-Level Surgery

In addition, this conference will host the CMAS committee meeting, CMAS standards and consensus meeting as well as the CMAS AGM. A short training session on foot modelling will also be provided combining updates on the Oxford Foot Model with an overview of a number of alternative foot models. There will also be an exhibition by our sponsors – manufacturers of movement analysis software and technology.

More detailed information including the full programme, abstract submission, registration and sponsorship can be found at the conference website: www.cmas2015.co.nf



CMAS Annual Meeting 2014 Report

The 13th Annual CMAS meeting and AGM was held at the Robert Jones and Agnes Hunt Orthopaedic Hospital and the Lion Quays Waterside Resort in Oswestry on 7th & 8th April 2014. The standards and education meeting was held on the afternoon of the first day. Following an update on the standards and audit process, Adam Shortland and Richard Baker presented their thoughts on education and training. Further details of the CMAS education initiative can be found on the next page of this newsletter.

The theme of the annual meeting was 'Everything but the walk' and was aimed at shifting the focus from gait onto other areas where movement analysis can be a useful tool. Invited speakers included Dr Penny Butler, who gave a talk on trunk control and how this impact on gait and function, and Dr Ed Chadwick who presented his work on modelling of the shoulder and upper limb. There was also a series of short presentations on assessment of the upper limb, which provoked some lively debate!

A number of free papers were also presented, and this year's CMAS Best Paper Prize was awarded to Dr Gabor Barton for his paper entitled 'The Movement Deviation Profile and It's Use in Stratifying Shoulder Pathology'.

The annual dinner was held at the Lion Quays, and featured a challenging general knowledge quiz, and a disco which proved very popular for a Monday night! The occasion also included a celebration for Vicon's 30th birthday.

Treasurer's Report

The accounts have been finalised for 2013/14 and submitted to Companies House. The full report is available to members on the CMAS website. The current membership of CMAS is 52 individuals. We currently have 15 labs fully accredited with 1 lab (Salford) currently going through the accreditation process.

Our income for the year was £7,651.48 and our expenditure was £3,915.53 for a total surplus for the year £3735.95. This is in-keeping with previous years. The CMAS account at the end of the financial year (April 30th 2014) had £20,035.36.

The committee is currently discussing ways of using our surplus funds. If you have an idea please discuss it with a committee member, or at the AGM on April 17th in Oxford.

Jennifer McCahill, CMAS Treasurer

CMAS Teleconference Facility

CMAS now has an account with Webex which can be used to host web based meetings for up to 8 participants at separate sites. As well as providing audio and video links, this includes the ability to share

your desktop and other documents, and to record the meeting. The CMAS committee recently held their mid year meeting using Webex and it was very successful, as well

as providing significant savings on costs and reducing travel time. If you would like to use Webex for a meeting relating to CMAS business, then please get in touch with me for more details.

Neil Postans

Email: neil.postans@rjah.nhs.uk



Future Annual Meetings

As you are aware, the 2015 Annual CMAS Meeting will be held in Oxford, and in 2016 we will be heading over to Belfast. If your centre would be interested in hosting a future CMAS meeting then we'd love to hear from you. If you'd like to know more about what is involved in organising and hosting the meeting, there are plenty of former meeting organisers in CMAS who would be glad to share their pearls of wisdom.

CMAS Education Initiative

The Education Sub-Committee have been working on an educational programme aimed primarily at new starters in clinical movement analysis (CMA) but that would be open to all with an interest in clinical human movement. The idea is to have 5-6 days a year dedicated to the development of knowledge necessary to become a rounded practitioner in CMA. So far, we have an outline that has the following 6 units (approximately 1 per day):

Unit 1: Neuromuscular biomechanics

The purpose of this unit is to explain the control and execution of normal human movement and will include: neurology of human movement (adult model); muscle activation and mechanics; passive tissue mechanics (bone; tendon; ligament; cartilage). *This unit could be taken independently.*

Unit 2: Conceptual musculoskeletal biomechanics

The purpose of this unit is to assist in the understanding of (bio)mechanics without recourse to a great deal of mathematics. It would include: Newton's Laws and their application to human walking; anthropometry; graphical conventions etc. *This unit could be taken independently.*

Unit 3: Development of human movement

The purpose of this unit is to aid understanding of human movement in the context of sensory-motor system development. It will include: embryological development of bone and muscle; development of the CNS during the early years of life; the qualities of mature movement; decline in motor control during aging. *Unit 1 would be a prerequisite for this unit.*

Unit 4: Clinical analyses of human movement and function

The purpose of this unit is to make students aware of different methods for analysis human movement and function: It would include: descriptions of joint movement; moments and powers; muscle lengths; electromyography; oxygen consumption; strength measurements; neurological measures; measurement of deformity; reporting philosophy. *Unit 2 would be a prerequisite for this unit.*

Unit 5: An introduction to movement problems in pathological conditions

The purpose of this unit would be to improve the knowledge of the most common conditions that lead to a movement problem. This unit would include: pathophysiology; aetiology; management options and the role of movement analysis. *This unit could possibly be taken independently by experienced practitioners or after Units 1-4 for new starters.*

Unit 6: Practicalities of running a movement analysis service

The purpose of this unit would be to improve best practice in the management of clinical movement analysis services. It would include: audit, standards and accreditation; service configuration; maintenance; development of a business case. *This unit could be taken by experienced practitioners.*

We would hope that the course will be staffed by individuals from the community with significant teaching and clinical/technical experience. We would hope that the course would become self-funding, attracting participants within and without the UK community. We would hope to roll out the course from April 2016.

At this stage, we would like you to comment on the outline above, and make any further suggestions for course content and design.

Please contact: adam.shortland@gstt.nhs.uk, CMAS Vice-chair with your suggestions.

Standards Update

The mid year standards meeting was held at Birmingham Airport on October 31st. 22 CMAS members attended the meeting to discuss a range of standards related issues, including repeatability, document control and the sharing and comparison of normative databases. There was also a presentation by Professor Anthony Redmond, Head of Clinical Biomechanics at Leeds University, on the use of the Foot Posture Index.

There was a general consensus that the sharing of normative and repeatability data would be advantageous. An amendment to the standards was suggested requiring accredited laboratories to submit normal and repeatability data centrally and this will be presented for voting into the 2015 version.

Other amendments likely to be proposed include relaxing repeatability testing requirements for established staff to 2 years, as well as extending the external audit cycle to 2 years for laboratories with robust track records of internal auditing and addressing non-conformances.

The standards committee is also looking for a new member, as Mark Corbett will complete his term shortly. If you are interested in joining the standards committee, or know of someone else who may be, then please contact either Mark Corbett (m.corbett@worc.ac.uk) or Damien Kiernan (dkiernan@crc.ie).

Meeting Report – The Next Generation of Clinical Movement Analysis Models

A seminar titled, “The Next Generation of Clinical Movement Analysis Models” was held at Keele University on June 20th 2014. It was organised by CMAS members Caroline Stewart and Richard Baker, and was sponsored by Keele and Salford Universities and ORLAU (Robert Jones and Agnes Hunt Orthopaedic Hospital). Many CMAS members attended the meeting, along with other clinicians, academic researchers and industry representatives from around the country with an interest in the application of movement analysis technology to clinical practice.

The meeting was split into four sessions, which were led by the meeting Chair, Dr Caroline Stewart from Keele/ORLAU, Dr Julie Stebbins from the Nuffield Orthopaedic Centre in Oxford, Prof Phil Rowe from Strathclyde University and Prof Richard Baker from Salford University. Each session comprised short presentations from a range of speakers to give an overview of the topic, followed by group discussions and lively debate! Topics covered included: limitations of current lower limb models, applications of spinal and upper limb modelling, visualisation of gait and biomechanical data, and the potential for advanced modelling.



Julie Stebbins, Phil Rowe, Caroline Stewart & Richard Baker

Caroline and Richard have been invited to run a follow up seminar at the International Society of Biomechanics (ISB) meeting which will be held in Glasgow in July next year, and CMAS will be fully supporting this initiative. Caroline has produced a meeting report which is freely available to anyone who is interested.

Contact Caroline for more information (caroline.stewart@rjah.nhs.uk)

The Back Page

Committee Vacancies

Three current members of the CMAS committee, Gill Holmes, David Ewins and Sheila Gibbs, will all complete their terms before the next AGM, so we are on the lookout for 3 new committee members.

Committee members serve a 3 year term in the first instance, but may stand for re-election at the end of their term. The committee meets twice a year, once preceding the AGM in April, and again in October. If you would like to know more about what is involved with serving on the committee, then please get in touch with myself or any of the other current committee members.

To be eligible for a position on the CMAS committee, a person must be a CMAS member who is active in the field of motion analysis, without commercial affiliations or other conflicts of interest. Each candidate nominated for a place on the committee of CMAS must provide a brief curriculum vitae, including a statement of current work responsibilities, for circulation to the society members. If you know of anyone who isn't currently a member, but who would be interested in being on the committee, they will need to join CMAS before being nominated but there is plenty of time to do this.

If you would like to be nominated, or would like to nominate someone else (please contact them first to confirm they are willing!) then please contact me (details below). The closing date for nominations is **Friday 19th December**. In the event that more than 3 nominations are received, a ballot will be held in due course.

Neil Postans, CMAS Chairperson

Email: neil.postans@rjah.nhs.uk Tel: 01691 404 666

Dates for your diary

14th Annual meeting of CMAS

Oxford: 16-17th April 2015

25th Congress of the International Society of Biomechanics (ISB)

Glasgow: 12th - 16th July 2015

24th Annual Meeting of ESMAC

Heidelberg, Germany: 10th-12th September 2015

Current CMAS Committee:

CHAIR: Neil Postans

VICE CHAIR: Adam Shortland

TREASURER: Jennifer McCahill

SECRETARY: Brona McDowell

COMMITTEE MEMBERS: Mark Gaston, Gill Holmes, David Ewins, Sheila Gibbs



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