**GCMAS 2017 Pre-Conference Workshop**

 **“Fine-Wire EMG: Advanced Interpretation and Practice”**

##### **Date: Tuesday, May 23nd, 2017**

##### **Time: 8 AM – 12 PM**

**Course Description:**

This 4-hour course will provide individuals experienced in fine-wire EMG an opportunity to participate in lectures and case based discussions to improve their skills in problem-solving EMG data quality issues, and to improve their understanding and skills in interpreting clinical EMG data. This course consists predominantly of case based discussion and short lectures. Participants should have attended the full-day FWEMG course this year, or in the past, or have equivalent content knowledge and experience. If a participant has limited fine wire insertion experience, the full-day course is the more appropriate course. If you have any questions, please email the course directors.

**Call for Alumni**

We would to like to invite past attendees (FineWire Course Alumni) to join us and share your experiences, successes, and challenges as you incorporated finewire techniques into your clinical and research practice.

**Course Faculty:**

**Sara Mulroy PT, PhD**

Director, Pathokinesiology Laboratory, Rancho Los Amigos National Rehabilitation Center

**Sylvia Öunpuu, MSc**

Director of Research and Education, Center for Motion Analysis, Connecticut Children's Medical Center

**Jean Stout, PT, MS**

Research Physical Therapist, Gillette Children’s Specialty Healthcare

**Marilynn Wyatt, PT, MA**

Director, Gait Analysis Laboratory, Naval Medical Center San Diego

**Sherry Backus, PT, DPT, MA**

Course Co-Director - sherry.backus@gcmas.org

Clinical Supervisor, Motion Analysis Laboratory, Hospital for Special Surgery

**Carole Tucker, PT, PhD**

Course Co-Director – carole.tucker@gcmas.org

Associate Professor of Physical Therapy & Electrical Engineering, Temple University

 **Course Objectives**

Upon completion of this training program, participants will:

* Be able to identify poor quality EMG data (surface primarily – principles apply to fine wire)
* Be able to interpret EMG within context of clinical cases
* Demonstrate an understanding of the instrumentation, choice of instruments, hazards and complications, troubleshooting used for kinesiological EMG
* Describe the emerging EMG instrumentation and analyses
* Perform fine-wire EMG insertion techniques safely and effectively for selected muscles.

**Agenda (Tentative)**

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| **Time** | **Topic & Activity** | **Instructor(s)** |
| **8:00 – 8:15** | Course Introduction & Logistics and Course Pre-test | Carole |
| **8:15 – 8:45** | EMG data collection – instrumentation and signal quality testing,  | Sylvia |
| **8:45 – 9:15** | New hardware and software approaches | Carole |
| **9:15 – 10:00** | EMG Data Advanced Interpretation Case Discussions 1 | Sylvia & All |
| **10:00 – 10:15** | Break |  |
| **10:15 – 11:30** | EMG Data Advanced Interpretation Case Discussions 2 | Sara & All |
| **11:30 – 11:45** | Alumni: Tips from the Field | Carole & Sherry & All |
| **11:45 – 12:00**  | Final Discussion & Questions and Course Post-test | Carole & Sherry |

**Frequently Asked Questions**

**Can I take the full day and half-day course the same year?**

Absolutely

**I do insertions and work with EMG routinely and/or have years of experience. Can I take the half day if I have not done the companion full-day course?**

In most cases, yes. We encourage you to contact one of the course directors before registering to ensure that you have the appropriate experience to reap the most benefit from the course.

**Please refer to the Full-Day course FAQ’s or contact the course directors:**

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Sherry Backus – backuss@hss.edu