

## ***Plexon Technical Workshop and Training Tentative Schedule with New LFP Analysis Session***

***March 23-25, 2010  
Dallas, Texas, USA***

This is a reminder that the Plexon Technical Workshop and Training is one month away. Space is still available, so we have extended the registration deadline. If you have expressed interest in attending but haven't filled out the registration form (below, and online at [www.plexon.com/assets/pdf/PlexonTechnicalWorkshopRegistrationAndSchedule2010.pdf](http://www.plexon.com/assets/pdf/PlexonTechnicalWorkshopRegistrationAndSchedule2010.pdf)), we encourage you to do so now. If you have waited to indicate that you wish to come, now is the time to go ahead and register.

A tentative schedule for the workshop is given below.

***\*\*\*Note: We have added a session on Spike-LFP and LFP-LFP Multitaper Coherence Analysis using Chronux (a widely used open-source Matlab Toolbox for LFP analysis developed by Partha Mitra and Hemant Bokil at CSHL). The LFP analysis tutorial will focus on the practical aspects of selecting appropriate parameters in the analysis for comparing the coherence of Spike-LFP and LFP-LFP signals of specific time lengths around events under different behavioral or cognitive conditions. The tutorial will include a walk-through of several examples with real data sets and Chronux Matlab function calls***

***We have also added new sessions on (i) filters, phase transforms, and FPAIalign, and (ii) disposable chronic microdrives now available through Plexon.***

The morning sessions will include step-by-step instructions on best practices in a variety of tasks related to extracellular neural recording including electrode implantation, data acquisition, spike sorting, and spike-spike, spike-LFP, and LFP-LFP coherence analysis. Expert guest speakers have been invited to lead several of the sessions. Review sessions will be held in the afternoon where participants will be given one-one-one training on the equipment and software discussed in the morning session.

### **SCHEDULE:**

#### **Monday, March 22:**

- Arrival at Hotel. Transportation from DFW Airport via taxi or shuttle service.

## Tuesday, March 23:

8:30-9:00	Breakfast and Registration
9:00-9:10	Welcome - Dr. Sherman Wiebe, Plexon
9:10-10:00	OmniPlex data acquisition tutorial and training - Dr. Sherman Wiebe, Plexon
10:00-11:00	MAP and Recorder system tutorial and training - Damon Gee and Chris Heydrick, Plexon
11:00-11:20	Break
11:20-12:20	Spike sorting methods and approaches in Offline Sorter including automatic and batch-mode processing - Dr. Sherman Wiebe and Dr. Dave Schmid, Plexon
12:20-1:20	CinePlex video capture, position tracking, and behavioral analysis - Dr. Rebecca Burwell, Brown University; Dr. Tanya Mukhina, Plexon
1:20-2:20	Lunch
2:20-5:00	Hands-on discussions and training on equipment relating to each topic covered in morning session

## Wednesday, March 24:

8:30-9:00	Breakfast
9:00-10:00	U-Probe electrode implantation procedures and recording - Dr. Bruce Cumming, NIH
10:00-10:40	Floating microelectrode array (FMA) implantation and recording - Dr. Adam Davidson, Laboratory of Dr. Marc Schieber, University of Rochester
10:40-11:00	Break
11:00-11:20	<b>(NEW)</b> Filters, phase transforms, and FPAlign - Dr. Craig Patten, Plexon
11:20-12:20	<b>(NEW)</b> Spike-LFP and LFP-LFP Coherence Analysis - Dr. Hemant Bokil, Cold Spring Harbor Laboratory and Medametrics LLC
12:20-1:20	Lunch
1:20	Track 1: Group interested in surgical implantation departs for UT Southwestern Medical Center
1:45-5:00	Location - UT Southwestern Medical Center - surgical implantation demonstration Chronic microwire array implantation procedure in rat Acute U-Probe recording in rat - Andrew Klein, Plexon
1:20-5:00	Track 2: Location - Doubletree hotel Hands-on discussion and training on equipment/software discussed in morning session

## Thursday, March 25:

8:30-9:00	Breakfast
9:00-10:00	Neurophysiological data analysis in Neuroexplorer - Dr. Alex Kirillov, Nex Technologies
10:00-11:00	<b>(NEW)</b> Introduction and demonstration of new 8-ch disposable microdrive for rodent – Robert Rennaker, U. Texas at Dallas
11:00-12:00	Hands-on discussion and training on equipment relating to all topics covered at workshop
12:00-1:00	Lunch

**Location:** Doubletree Hotel Campbell Centre, Dallas, Texas (walking distance from Plexon office)

Satellite session to be held at the University of Texas-Southwestern Medical Center. Transportation to the Medical Center will be provided.

**Fee:** \$1000

**Fee includes:** Hotel accommodations for 3 nights at the Doubletree Hotel Campbell Centre  
Breakfast and lunch daily

**Who is invited:** Anyone wishing to obtain a better understanding of the practical and technical aspects involved in electrode implantation, data acquisition with Plexon OmniPlex, MAP or Recorder systems, CinePlex video analysis, Offline spike sorting, Neuroexplorer analyses, and Spike-LFP and LFP-LFP Coherence analyses.

Both domestic and international researchers are welcome. You do not need to be a Plexon user to attend this workshop.

# **REGISTRATION AND PAYMENT FORM**

## **Plexon 2010 Technical Workshop and Training**

Please provide the following **attendee** contact information and either (i) Fax the completed form to +1-214-369-1775, or (ii) email the completed form to [usergroup2010@plexon.com](mailto:usergroup2010@plexon.com). Please complete one registration form for each attendee.

*\* required fields*

*First Name\**

*Last Name\**

*Title\**

*University/Lab\**

*Street Address\**

*City\**

*State\**

*Zip\**

*Work Phone\**

*FAX*

*E-mail\**

*Arrival Date\**

*Departure Date\**

**Seminar Fees:**

**\$1000**

Payment type (choose one):  Credit Card ,  Check

**By Credit Card:**

Master Card  Visa  Amex

*Cardholders First Name\**

*Cardholders Last Name\**

*Credit Card Number\**

*Expiration Date\**

*Card Security Code(3-digit)\**

*Billing Address\**

*City\**

*State\**

*Zip\**

*Phone\**

*E-mail\**

**By Check:**

**Make Checks Payable to:      Plexon Inc**  
**Mail Payments to:**

Plexon Inc  
6500 Greenville Avenue, Suite 730  
Dallas, Texas 75206 USA  
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