

## Neuronal Conduction for Beginners Workshop

March 24-25, 2012 ✧ June 23-24, 2012 ✧ September 8-9, 2012 ✧ December 1-2, 2012

Workshop location: The College of Staten Island, 2800 Victory Blvd, Building 5N - Room 217  
Staten Island, NY 10314

### TUITION

#### All Workshops

Tuition: \$595

Includes all workshop handouts, disposable electrode kit and certificate of attendance upon completion of course. Meals vary by course and are noted in the schedule below. Lunch is included. *Performing Motor and Sensory Neural Conduction Studies in Adult Humans* manual is also provided upon registration and sent to the address listed on the registration form unless otherwise noted.

### Course Schedule

#### Day 1

7:30 Registration and Continental Breakfast  
8:00 Pre-test: Neuronal Conduction  
8:45 Lecture: Physiology of Excitable Membranes  
9:30 Break  
9:50 Lecture: Biomedical Instrumentation  
10:30 Laboratory I: Biomedical Instrumentation  
11:45 Lecture: Biomedical Instrumentation Review  
12:00 Lunch  
12:45 Lecture: Theory of Motor Nerve Conduction  
1:15 Lecture: Median and Ulnar Nerve: Motor Studies  
1:45 Break  
2:00 Laboratory II: Median and Ulnar Nerve: Motor Studies  
3:30 Lecture: F Waves and Sensory Conduction  
4:15 Laboratory III: Median F Waves and Ulnar F Waves and Sensory Conduction  
6:00 Conclusion

#### Day 2

8:00 Continental Breakfast, Quiz and Recap  
8:20 Lecture: Median, Ulnar, Radial and Sural Sensory Techniques - Review  
9:00 Laboratory IV: Neuronal Conduction - Median, Ulnar and Radial  
9:45 Break  
11:30 Lecture: Neuronal Conduction: Tibial Nerve, Common Peroneal Nerve, Sural Sensory and H-Reflex  
12:15 Lunch  
12:45 Laboratory V: Neuronal Conduction  
3:15 Break  
3:30 Lecture: Case Studies in Neuronal Conduction  
4:30 Conclusion



**Schedule is subject to change dependent on class size and/or interest.**



This two-day program, Neuronal Conduction for Beginners, provides theoretical background and hands-on experience in current neuronal conduction techniques, including Motor nerve conduction, Sensory nerve conduction and Late responses, including H-reflex and F-wave. This course is specifically designed for:

- Technicians who need to learn new skills
- Individuals who attended one or two day workshops and want more information
- Individuals who plan to progress through a series of courses from beginner to advanced levels

Participants gain a clear understanding of this specialty area with an appreciation for the depth of study and practice required to attain clinical expertise in neuronal conduction through intense study and laboratory practice. More than 50% of this course is hands-on training guided by a laboratory manual and expert clinicians! Students will learn the:

- Anatomic and physiologic basis of neural conduction
- Basics of electrodiagnostic instrumentation
- Rationale and methods to perform motor and sensory conduction of the major nerves in the upper and lower extremities
- Rationale and methods to perform H-reflex and F-wave studies

(Further registration information on reverse side)

## Registration

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Name: \_\_\_\_\_ Specialty: \_\_\_\_\_

*As it will appear on Attendance Certificate (Include any credentials, initials, etc.)*

Business Name: \_\_\_\_\_

Complete Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Signature: \_\_\_\_\_ "I understand I will participate in a practicum involving performing NCV studies on other students as well as on me. I agree to wear loose fitting clothing that can be rolled above the elbow and the knee."

Please charge \$ \_\_\_\_\_ Credit Card # \_\_\_\_\_ Exp. \_\_\_\_\_

Credit Card Vin # (Last 3 digits on back of card - 4 digits on front if Amex) \_\_\_\_\_ Cardholder name: \_\_\_\_\_

Credit Card Billing Address (if different than above) \_\_\_\_\_

Enclosed is my check for \$ \_\_\_\_\_ payable to Cadwell Educational Programs.

Mail this form with your check to: Cadwell Educational Programs, 909 N. Kellogg St., Kennewick, WA 99336

**Call: (800) 245-3001**

**Fax: (509) 783-6503**

**E-mail: workshops@cadwell.com**

### Instructors

Roger Nelson, P.T., Ph.D., F.A.P.T.A.

### Limited enrollment

To ensure the best learning environment, enrollment will be limited. Registrations are taken in the order they are received. Tuition must be paid in advance to guarantee your space. **Confirmation notice, class agenda and NIOSH manual will be sent to the address provided upon receipt of your registration and tuition.**

### Accommodations

Hilton Garden Inn - (718) 477-2400 or Hampton Inn Staten Island - (718) 477-1600. Both are minutes away from the college. Call early for the best rates or check hotel websites. **Be sure to ask your hotel about transportation to and from the workshop.**

### Airline reservations

It is recommended that participants wait until their registration is confirmed to book airline reservations, especially those with non-refundable deposits. Cadwell Laboratories is not responsible for the refund of travel expenses.

### Cancellation policy

Cadwell reserves the right to cancel the course within 14 calendar days of the start date. In the unlikely event that a course is cancelled, 100% of the tuition will be refunded. Participant cancellations made more than 14 calendar days before the course receive a tuition refund minus a 20% administrative fee. The nature of the "hands on" aspect of the course from an equipment and instructional stand point, dictates that an optimal number of participants be maintained. Therefore participant cancellations made less than 14 days before the course start date, including no shows, will result in the tuition being non-refundable and non-transferrable to a future date.

### Participants should

Review upper and lower extremity surface anatomy and peripheral neuroanatomy, bring a NIOSH manual (#90-113) to all laboratory sessions (see required reading below).

### Required Reading

*Performing Motor and Sensory Neural Conduction Studies in Adult Humans*. NIOSH Manual #90-113, 1990. \$20, included in your registration fee.

### Suggested Readings

Kimura J: *Electrodiagnosis in Diseases of Nerve and Muscle: Principles and Practice*, 3rd Ed., March '01. \$125. ISBN 0195129776. Oxford University Press, Cary, NC. To order, phone 800-451-7556.

Perotto AO: *Anatomical Guide for the Electromyographer: The Limbs and the Trunk*, 3rd Ed., 1994. \$36.95. S&H \$5.95. CC Thomas Co., Springfield, IL. To order, phone 217-789-8980.

Liveson and Ma: *Laboratory Reference for Clinical Neurophysiology*, 1st Ed., 1992. \$74.00. ISBN 0195129245. Oxford University Press. To order, phone 800-451-7556.