

Neuronal Conduction for Beginners Workshop

March 27-28, 2010 - June 26-27, 2010 - October 16-17, 2010 - December 4-5, 2010

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

.....

TUITION

All Workshops

Tuition: \$495

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 electronic 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

March 27-28, 2010 June 26-27, 2010 October 16-17, 2010 December 4-5, 2010

Name: _____ Specialty: _____

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

Business Name: _____

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. and Arthur 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. **If you need shuttle service, call 718-698-4493.**

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 Laboratories reserves the right to cancel this course within 14 calendar days of the course start date. Although this is highly unlikely, be aware that such an event is possible because of under-enrollment. In this event, 100% of your tuition will be refunded. Participant cancellation requests must be received in writing by the course coordinator 10 calendar days prior to the course. A 20% administrative fee is not refunded.

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.