



10 Kemp Drive
Chatham, IL 62629
Phone: (217) 483-2122
US: (800) 334-4154
Fax: (217) 483-4533

Advanced Course on Assessment & Management of Dizziness and Balance Disorders

COURSE INSTRUCTORS

**Joel A. Goebel, M.D., FACS
& Neil T. Shepard, Ph.D.**

December 7-8, 2018

**The Lodge at Sonoma Renaissance Resort & Spa
1325 Broadway at Leveroni & Napa Roads
Sonoma, CA 95476**

**COST: \$650 until 11/16/18
(\$700 afterwards)**



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Hotel Accommodations

The Lodge at Sonoma Renaissance Resort & Spa
1325 Broadway at Leveroni & Napa Roads

Sonoma, CA 95476

(707) 935-6600

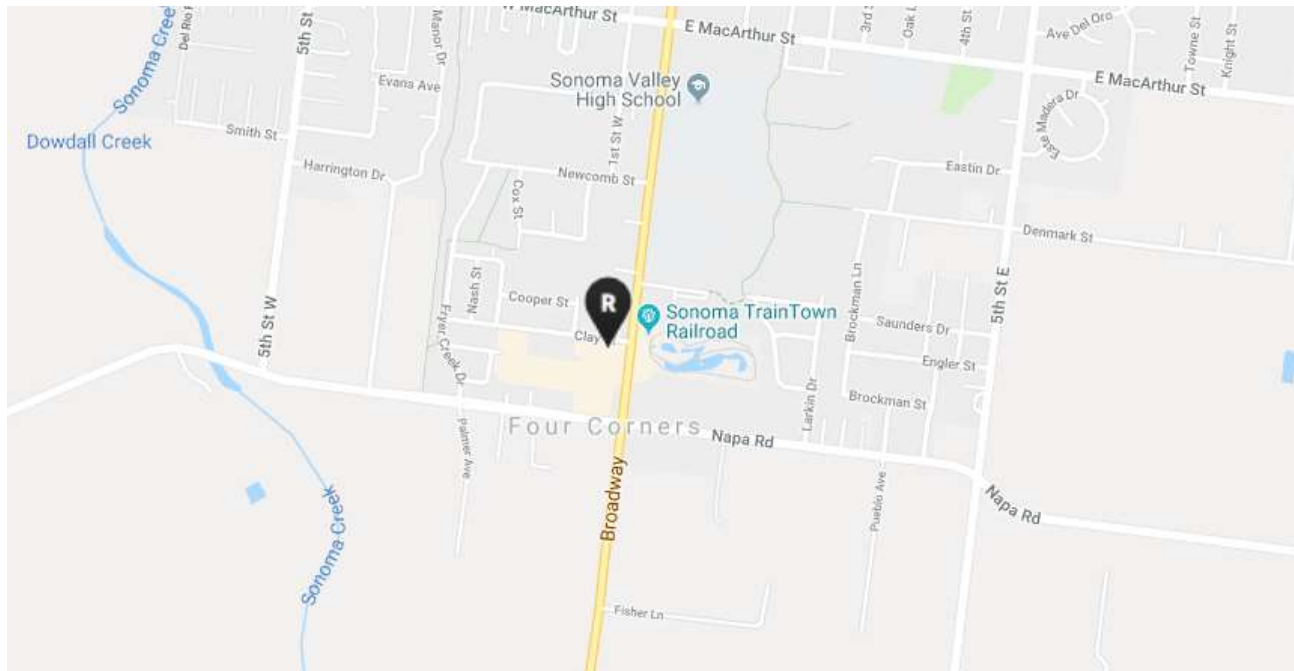
Room Rates: \$249

Rates available until 11/15/18

**Call hotel directly to make your reservation, mention "Micromedical Technologies"
to get the special rate**

Hotel Website:

<https://www.marriott.com/hotels/travel/sfols-the-lodge-at-sonoma-renaissance-resort-and-spa/>





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Airport & Directions (Please note this hotel does not provide shuttle service):

AREA AIRPORTS:

San Francisco International Airport (SFO) 56mi S of hotel

Oakland International Airport (OAK) 57mi SE of hotel

Sacramento International Airport (SMF) 76mi NE of hotel

San Jose International Airport (SJC) 77mi SW of hotel

Alternate Transportation (contact service directly for estimates):

Nearby Car Rentals

Hertz, visit www.hertz.com

Enterprise Rent-A-Car,

Visit www.enterprise.com

Bus Station

Greyhound Station

22.5 miles NW from hotel

Train Station

12.6 miles SW from Hotel

View Airport Transportation Information on the SFO Website:

<https://www.flysfo.com/to-from/ground-transportation>

View Airport Transportation Information on the OAK Website:

<https://www.oaklandairport.com/transportation/>

View Airport Transportation Information on the SMF Website:

<https://sacramento.aero/smf/to-and-from/public-transportation>

View Airport Transportation Information on the SJC Website:

<https://www.flysanjose.com/to-from>

See Hotel Website for Driving Directions:

<https://www.marriott.com/hotels/maps/travel/sfols-the-lodge-at-sonoma-renaissance-resort-and-spa/>

Parking:

Complimentary on-site parking



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COURSE AGENDA*:

Friday December 7, 2018

- 8:00-8:30 Registration
- 8:30-10:30 Basic and Advanced Anatomy and Physiology --- Shepard
- 10:30-10:45 Break
- 10:45-12:30 Identification, Differential Diagnosis and Treatment Strategies for Peripheral Vestibular Disorders --- Goebel
- 12:30-1:30 Lunch (Meal Provided)
- 1:30-2:30 Continuation of Identification, Differential Diagnosis and Treatment Strategies for peripheral Vestibular Disorders --- Goebel
- 2:30-3:00 Break
- 3:00-4:00 Head movement sensitivity NOT related to BPPV - mimics of BPPV --- Shepard
- 4:00-5:15 Identification and Treatment of Vestibular Migraine --- Shepard
- 5:15-5:30 Questions

Saturday December 8, 2018

- 8:00-8:45 Computerized Dynamic Posturography - Dr. Goebel
- 8:45-9:30 Identification, Differential Diagnosis and Treatment Strategies for Central Vestibular Disorders --- Goebel
- 9:30-9:45 Break
- 9:45-11:00 Identification and treatment for Persistent Postural-Perceptual Dizziness --- Shepard
- 11:00-12:00 Utilization of Laboratory test in the diagnosis of the dizzy patient- To test or not to test? --- Goebel
- 12:00-1:00 Lunch (Meal Provided)
- 1:00-2:30 Updates in the use of Laboratory testing --- What's new --- Shepard
- 2:30-3:00 Break
- 3:00-4:30 Challenging Cases --- Goebel / Shepard
- 4:30-5:00 Wrap-up and Questions (Hopefully some answers)



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Joel A. Goebel, M.D., FACS

*Professor and Vice Chairman of Otolaryngology - Head and Neck Surgery
Director, Dizziness and Balance Center*

Washington University School of Medicine, St. Louis, MO

Dr. Goebel is board-certified in Otolaryngology and is director of the Dizziness and Balance Center.

Dr. Goebel's clinical interests include: hearing loss, dizziness, balance disorders, Meniere's disease, facial nerve injuries, skull base tumors, vertigo, vestibular disorders, progressive hearing loss, fluctuating hearing loss, unilateral (one ear) hearing loss, fluid behind the ear drum, draining ear, facial paralysis or facial twitching, ringing in the ear, tinnitus, hearing loss in children, Bone Anchored Hearing Aids (BAHA), cochlear implantation.

Neil T. Shepard, Ph.D.

*Former Chair of the Division of Audiology & Director
Dizziness & Balance Disorders Program*

Professor of Audiology, Emeritus

Mayo Clinical School of Medicine, Rochester, MN

Dr. Shepard continues with a clinical private practice in Missoula, MT for the assessment and recommendations for treatment of patients reporting dizziness and balance disorder symptoms. He is also involved with research through the Mayo Clinic and teaching at the U of MT.

Dr. Shepard received his undergraduate and masters training in Electrical and Biomedical Engineering from University of Kentucky and Massachusetts Institute of Technology and completed his PhD in auditory electrophysiology and clinical audiology from the University of Iowa in 1979. He has specialized in clinical electrophysiology for both the auditory and vestibular systems. Activity over the last 38 years has concentrated on the clinical assessment and rehabilitation of balance disorder patients and clinical research endeavors related to both assessment and rehabilitation.

NOTE OF DISCLOSURE:

Joel A. Goebel

Relevant financial relationships: Honorarium, accommodations & travel expenses provided by Micromedical Technologies, Inc.

Relevant non-financial relationships: None

Neil T. Shepard

Relevant financial relationships: Honorarium, accommodations & travel expenses provided by Micromedical Technologies, Inc.

Relevant non-financial relationships: None



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CONTINUING EDUCATION:

Evaluation Assessment Tool: A Course Examination will be handed out at the end of the course material covered.

AAA Credits - Micromedical Technologies, Inc. is applying for 1.45 CEU Credits through the American Academy of Audiology (AAA) to offer AAA CEU's for this course. (Academy CE Provider) is approved by the American Academy of Audiology to offer Academy CEUs for this activity. The program is worth a maximum of 1.45 CEUs. Academy approval of this continuing education activity is based on course content only and does not imply endorsement of course content, specific products, or clinical procedure, or adherence of the event to the Academy's Code of Ethics. Any views that are presented are those of the presenter/CE Provider and not necessarily of the American Academy of Audiology.



Tier 1 Credits - Micromedical Technologies, Inc. is applying for 1.45 CEU Credits (14.5 Credit Hours) through AAA for the American Board of Audiology recertification requirements.

American-Speech-Language-Hearing Association (ASHA):



Micromedical Technologies, Inc. is approved by the Continuing Education Board of the American Speech-Language-Hearing Association (ASHA) to provide continuing education activities in speech-language pathology and audiology. **See course information for number of ASHA CEUs, instructional level and content area.** ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

This program is offered for 1.45 CEUs (Intermediate Level, Professional Area)



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INTENDED AUDIENCE

Audiologists ❖ Otolaryngologists ❖ Neurologists ❖ Physical Therapists
Functional Neurologists ❖ VNG/ENG Technicians

This is an intermediate course for those interested in vestibular testing. Examples of test abnormalities will be discussed and cases used to illustrate how to apply the test results to achieve successful treatment strategies. This course assumes the attendee has a general working knowledge of the anatomy and physiology of the vestibular & balance systems as well as general familiarity and experience with ENG/VNG testing.

LEARNER OUTCOMES

At the completion of this course, the attendee will be able to: Describe the vestibule-ocular reflex and its relationship to bedside and laboratory vestibular testing. Perform interpretations of spontaneous, gaze, saccades, pursuit tracking, Dix-Hallpike, positionals, rotary chair and caloric tests in the context of the patient's history. Perform the essential elements of a vestibular office examination. Identify the principle differentiating features of peripheral, central and non-vestibular impairments from history and laboratory evaluation results. Describe ocular motor function in the context of vestibular evaluation.

REGISTRATION FEES:

Registration fees include course tuition, program materials, refreshments breaks and lunch. Each participant will receive an email confirming their registration. We expect high interest in this course so register early.

CANCELLATION & REFUND POLICY:

Refund requests will be honored when received in writing within 21 days before the start of the course (11/16/18). All refunds are subject to a \$50.00 processing fee. No refunds will be given 21 days or less before the start of the course. Micromedical Technologies, Inc. reserves the right to cancel or postpone the course due to unforeseen circumstances. In the event of cancellation or postponement, registration fees will be refunded but Micromedical Technologies, Inc. is not responsible for any related costs or charges.

**FAX OR MAIL IN THE COURSE REGISTRATION FORM
ON FOLLOWING PAGE TO SIGN UP TODAY!**



Micromedical[™]
T E C H N O L O G I E S INC.

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REGISTRATION FORM

Registration: \$700.00 after 11/16/18

Early Registration: \$650.00 on or before 11/16/18

Name

Specialty/Degree

Company Name

Address

City

State

Zip

Ph

Email

CEU Required: AAA ID #

ASHA ID #

Check or Money Order, payable to Micromedical Technologies (US funds only)
(a \$25 service charge will apply to checks returned for insufficient funds)

Charge My: Visa Master Card

Credit Card #

Exp. Date: /

3-Digit Code:

Name printed on card

Billing Address of Card if different than above:

Name of Person Authorizing Charges

I authorize Micromedical Technologies to charge the amount determined by Micromedical Technologies as registration fees to my credit card

Please Mail this form to:

Micromedical Technologies

10 Kemp Drive

Chatham, IL 62629

OR call us directly: 800-334-4154

OR FAX to 217-483-4533 OR Register on-line at <http://micromedical.com/education.html>

CODE: CACOURSE