

# From Motor Control to Motor Learning

Registration Deadline : May 5, 2018

## Registration

Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone Number \_\_\_\_\_

Email \_\_\_\_\_

License Type/Number \_\_\_\_\_

Registering for (please check appropriate box)

STATUS	Course Cost
Northwest Medical Staff	\$79 <input type="checkbox"/>
ArPTA Members	\$109 <input type="checkbox"/>
Non-Members	\$169 <input type="checkbox"/>
PT/PTA/OT/COTA Students	\$25 <input type="checkbox"/>

(Lunch will be provided for all attendees.)

Total enclosed for Registration \_\_\_\_\_

Or you can register online and pay with a credit card at  
[www.arpta.org](http://www.arpta.org)

Please Make Registration Check to:

ArPTA

P.O. Box 202

Conway, AR 72033

501-499-6163 ph/fax

[execdirect@arpta.org](mailto:execdirect@arpta.org)



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## Arkansas Physical Therapy Association Regional Course and Business Meeting

*From Motor Control to Motor  
Learning—Applying evidence based  
research in the clinic with Constraint  
Induced Movement Therapy and Task  
Oriented Training* (6.0 Contact Hours Pre-  
Approved by the AR State Board of Physical Therapy)  
Veronica Rowe, PhD, OTR/L



Date: 5-12-18

Time: 8:30am—4:15pm

Location: Northwest Medical Center

609 West Maple Ave

Tower II Large Conference Room

Springdale AR 72764 Park off 71B and enter the  
main entrance facing 71B

## Course Description

The first part of the day will consist of a lecture that reviews and describes the theoretical shift from motor control to motor learning with an emphasis on constraint induced movement therapy (CIMT) within the EXCITE national clinical trial, and task oriented training (TOT) in the ICARE national clinical trial. Clinical applicability is reviewed for optional modes of delivery within the clinical setting. Discussion of some factors contributing to the determination of appropriate patients for CIMT and TOT; assessing the therapeutic aspects of CIMT and TOT, and reviewing the application of CIMT and TOT both in a clinic setting as well as application in the “real world”; what works and what doesn’t, and things that are sacrificed due to typical clinic restrictions will be reviewed. A review and demonstration of the evaluation tools typically used with CIMT and TOT, with discussion of modifications for use in the clinic will follow with focus on the Wolf Motor Function Test, the Arm Motor Fugl-Meyer Assessment, the Stroke Impact Scale, the Motor Activity Log, and the Functional Test for the Hemiparetic Upper Extremity. The second half of the day will provide a practical training with volunteers who have suffered a stroke so that participants can see how CIMT and TOT principles are applied and what standardized assessments look like.

## Course Objectives

Upon completion of this course the participant should be able to:

1. Understand the origins of CIMT within the EXCITE trial, & TOT within the ICARE trial, along with results.
2. Analyze how CIMT & TOT has been applied in research.
3. Consider optional modes of delivery for CIMT & TOT
4. Apply the appropriate screening process of patients for CIMT & TOT
5. Be aware of assessments and outcomes typically used with CIMT & TOT
6. Apply CIMT & TOT principle based treatment procedures
7. Learn to perform options for monitoring performance outcomes of therapeutic programs that incorporate CIMT & TOT, including the Wolf Motor Function Test, The Arm Motor Fugl-Meyer Test, The Motor Activity Log, the Functional Test for the Hemiparetic Upper Extremity, and the Stroke Impact Scale
8. Discuss “real world applications” of CIMT & TOT, including strengths and limitations of these treatments.
9. Tailor and design an effective task-oriented training program specific to each participants’ settings using the knowledge transition (KI) model.

**Intended Audience:** PTs, PTAs, OTs, and COTAs

## Schedule of Events

**8:30-10**—Understand the origins of CIMT within the EXCITE trial, and TOT within the ICARE trial, along with results. Analyze how CIMT and TOT has been applied in research.

**10:15-11:45**—Consider optional modes of delivery for CIMT & TOT. Apply the appropriate screening process of patients for CIMT & TOT. Be aware of assessments and outcomes typically used with CIMT & TOT

**11:45-1:00**—Lunch and ArPTA Business Meeting

**1:00-3:00**—Review CIMT & TOT principle based treatment procedures with case studies of stroke survivors.

Learn to perform options for monitoring performance outcomes of therapeutic programs that incorporate CIMT & TOT, including the Wolf Motor Function Test, The Arm Motor Fugl-Meyer Test, The Motor Activity Log, the Functional Test for the Hemiparetic Upper Extremity, and the Stroke Impact Scale

Discuss “real world applications” of CIMT & TOT, including strengths and limitations of these treatments.

**3:15-4:15**—Develop an effective task-oriented training program specific to each participant’s setting for clients poststroke using a knowledge translation model. Q&A

## Course Instructor

Dr. Veronica Rowe is an assistant professor at the University of Central Arkansas. She obtained a master’s degree in occupational therapy from Washington University in St. Louis, Missouri in 1996 and a PhD in occupational therapy from Texas Woman’s University (TWU) in 2016. In her 21 years of experience as an occupational therapist, she has worked in various areas of adult and geriatric care including acute care, inpatient and outpatient rehabilitation, long term care, burns, hands, and psychiatric care, all areas with an emphasis in neurological disorders. She also has a master’s degree in research from St. Louis University which has assisted her in many research endeavors. Prior to her work in academia, she spent her career in St. Louis, Missouri at St. Anthony’s Medical Center; Baltimore, Maryland at Johns Hopkins Bayview; and in Atlanta, Georgia at Emory University. She served as a project coordinator for numerous research studies at Emory University involving rehabilitation therapies for the neurologically compromised upper extremity, including constraint induced movement therapy, mental imagery, and use of robotic devices. Currently, she collaborates on several research studies involving task specific training and neurorehabilitation assessment measures at the University of Southern California. She is the author of numerous peer-reviewed articles, and has presented nationally, internationally, and virtually for a wide variety of audiences. She is also a Certified Brain Injury Specialist Trainer.

Her dissertation and research area of interest is neurorehabilitation after stroke or head injury, specifically, contemporary approaches of neurorehabilitation, such as task oriented training, as well as outcome measures related to the neurologically involved population. Dr. Rowe frequently conducts courses on task oriented training, including constraint induced movement therapy, and on assessment measures to students and colleagues.