

ENMG Symposium 2025

The event will be held at Rocky Mountain University of Health Professions in Provo, Utah

Friday, March 28

8:00 am - 5:00 pm Mountain Daylight Time (+2 EDT, -1 PDT)

Saturday, March 29

8:00 am - 4:00 pm Mountain Daylight Time (+2 EDT, -1 PDT)

[Promo Code Request Form](#)

Important Conference Information:

- Event Format: Blended (virtual and onsite tickets available)
- Onsite Location: Rocky Mountain University, Building 3, in Provo, Utah
 - 122 E 1700 S, Provo, UT 84606
- This event is offered LIVE. Recordings will not be available for CEUs after the event
- ACEWM Members: To request your \$25 discount, please submit the form above
- RMU Alumni: To request 15% off the Non-Member price, please submit the form above
 - Note: RMU Alumni who are also ACEWM Members should use the RMU Alumni discount
- Tech Support Contact: con.ed@rm.edu

Description

The Annual Electroneuromyographic Symposium is designed specifically for healthcare providers that specialize in electroneuromyography (ENMG). Invited speakers (researchers, educators, and clinicians) are given a forum to present original research, topic reviews, and case reports. Either the full article or abstract is published in The Proceedings.

We expect that 14.5 contact hours will be awarded for this symposium. Applications have been made to Utah, California, and Texas and are all currently pending application review.

Symposium Schedule

Friday, March 28 (all times listed in Mountain Daylight Time)

TIME (MDT)			PRESENTER	TOPIC
AM	<i>*Onsite Continental Breakfast at Building 3, Room 206</i>			
	8:00	8:05		Welcome
	8:05	8:45	David Greathouse, PT, PhD, FAPTA (ECS)	<i>Differential Diagnosis of Foot Drop</i>
	8:50	9:30	Nancy Mansell, PT, DPT (ECS)	<i>Brachial Plexus Injury Following Shoulder Dislocation: Case Study and Review of Current Literature</i>
	9:30	9:50		Vendor & Refreshment Break
	9:50	10:30	Art Nitz, PT, PhD (ECS)	<i>Delayed Neuropathic Process Mimicking Lumbar Spinal Stenosis Following Renal Transplant: Case Study and Literature Review</i>
	10:35	11:15	Randall Hulet, PT, DPT (ECS)	<i>Myotonia: Presentation of Two Case Studies and Discussion of Etiology and Diagnosis</i>
	11:20	12:00	Elizabeth Painter, PT, DPT, DSc (ECS)	<i>EMG/NCS in the Patient with Pre-existing Upper Motor Neuron Pathology: Cerebral Palsy and Cervical Myelopathy</i>
PM	12:00	1:15		Vendor Break & Lunch (on your own)
	1:15	1:55	Breck Leonard, PT, DPT (ECS)	<i>A Referral for Multifocal Acquired Demyelinating Sensory and Motor Neuropathy; Or Is It?</i>
	2:00	2:40	Rick McKibben, PT, DSc (ECS)	<i>Anatomic Sensory Variations of the Dorsum Foot: Considerations for Planning the Nerve Conduction Study</i>
	2:40	2:55		Vendor & Refreshment Break
	2:55	5:00	Quickfire Panel	<i>Diseases of the Motor Neuron Topics</i>
			David Johnson, PT, MPT (ECS)	<i>Motor Neuron Disease</i>
			Alain Claudel, PT, DPT (ECS)	<i>Spinal Muscular Atrophy</i>

			Bryan Green, PT, DPT (ECS)	<i>Jakob-Cruetzfeldt</i>
			Matthew Okelberry, PT, DPT (ECS)	<i>Poliomyelitis/Post-Poliomyelitis</i>
			Korry Wheeler, PT, DPT (ECS)	<i>Syringomyelia</i>

Saturday, March 29 (all times listed in Mountain Daylight Time)

TIME (MDT)			PRESENTER	TOPIC
	<i>*Onsite Continental Breakfast at Building 3, Room 206</i>			
AM	8:00	9:00	Erik Stålberg, MD, PhD (VIRTUAL)	<i>Neurography: An Update</i>
	9:00	10:00	Erik Stålberg, MD, PhD (VIRTUAL)	<i>QEMG</i>
	10:00	10:10		Vendor & Refreshment Break
	10:10	11:10	Erik Stålberg, MD, PhD (VIRTUAL)	<i>SFEMG</i>
PM	11:10	12:00	Erik Stålberg, MD, PhD (VIRTUAL)	<i>Integration Neurography/EMG</i>
	12:10	12:15		Grab Lunch Box
	12:15	12:55	Leon Romero, PT, DSc (ECS)	<i>Nerve Injury Status Post Distal Radius Fracture: A Case Report</i>
	12:55	4:00	Quinn Millington PT, DPT (ECS)	<i>EMG/NCS Professional Development, Governmental Affairs, and the EDX SIG</i>

Presenters

In order of appearance...

David Greathouse, PT, PhD, FAPTA (ECS)

David G. Greathouse is currently the Director of Clinical Electrophysiology Services, Texas Physical Therapy Specialists, Live Oak, TX and Professor, U.S. Army-Baylor Doctoral Program in Physical Therapy, Fort Sam Houston, TX. Dr. Greathouse is a Diplomate, American Board of Physical Therapy Specialties in Clinical Electrophysiologic PT. Dr. Greathouse was named a Catherine Worthingham Fellow of the APTA in 2006. From 1970-1996, Dr. Greathouse served in the United States Army attaining the rank of Colonel. From 1996-2005, Dr. Greathouse served as the founding chair and associate dean of the Belmont University School of Physical Therapy, Nashville, TN. Dr. Greathouse has published over 60 manuscripts and 15 book chapters/monologues, and has given over 100 professional presentations. Dr. Greathouse is currently a member of the International Editorial Review Board of the Journal of Orthopaedic & Sports Physical Therapy (JOSPT), a manuscript reviewer for Physical Therapy, and Associate Editor of the Journal of Clinical Electrophysiology and Wound Management. He was a recipient of the Clinical Electrophysiology Section (APTA) Award of Excellence in 1999. In 2013, Dr. Greathouse was inducted into the University of Kentucky College of Health Sciences' Hall of Fame. In 2015, he was a recipient of the University of Pittsburgh School of Health and Rehabilitative Sciences Distinguished Alumni Award.

Nancy Mansell, PT, DPT (ECS)

Dr. Mansell completed her undergraduate degree at Penn State and received her Doctor of Physical Therapy from the Army/Baylor Program. She served in the Army until 2011 and during her time was deployed to Iraq with the 82nd Airborne Division. Her interest in EDX began in 2013 and with RMU ENMG training and help from many mentors, she earned her ECS in 2016. Her EDX laboratory is accredited by FELA, and she performs EDX in rural communities on the picturesque Olympic Peninsula in the Puget Sound. She is the Nominating Chair and Education Committee Chair for the EDX SIG, serves as a mentor for AACE and has presented at the multiple RMU Symposiums.

Art Nitz, PT, PhD (ECS)

Dr. Nitz attended Wheaton College from 1971-1975, receiving a B.S. in Biology. Dr. Nitz received his Master of Physical Therapy from Baylor University (US Army) in 1976 and a PhD in Anatomy and Neurobiology from the University of Kentucky in 1984. He recently retired from full time faculty position at the University of Kentucky after 37 years of fulltime teaching and research, holding the rank of Full Professor; he continues to teach various courses and maintains clinical practice as the owner of ProActive Therapy. He has authored numerous articles and book chapters and was the co-editor of the textbook, Orthopaedic and Sports Physical Therapy. Dr. Nitz was the recipient of the US Army-Baylor University Alumni of the Year Award in 2001 and continues to teach and conduct research at the University of Kentucky while maintaining clinical practice.

Randall Hulet, PT, DPT (ECS)

Randall Hulet grew up in State College, Pennsylvania, but ventured out west to Utah to attend Brigham Young University followed by physical therapy school at Rocky Mountain University of Health Professions, graduating with his DPT in 2017. Following PT school, he worked in a rural outpatient orthopedic setting in Arizona for 3 years before moving to Alabama where he was a part of and graduated from EMG Solutions' first clinical electrophysiology residency cohort and obtained his board certification in Clinical Electrophysiology in 2022. Outside of work, he enjoys spending time with his wife and 3 little girls, singing for fun and in church, and playing pickleball.

Elizabeth Painter, PT, DPT, DSc (ECS)

Dr. Painter received a Master of Physical Therapy from the Army-Baylor University Program in Physical Therapy in 1999 and a Doctor of Physical Therapy from Baylor University in 2007. She completed the Army-Baylor Doctoral Fellowship in Orthopaedic Manual Physical Therapy in 2014, earning a Doctor of Science in Physical Therapy. Dr. Painter holds board certifications in both in Clinical Electrophysiologic and Orthopaedic Physical Therapy. She has served on the Clinical Electrophysiologic Specialty Council and is currently a Clinical Content Expert, involved in writing and editing exam questions for the clinical electrophysiologic specialty exam. Dr. Painter is currently in private practice in electrophysiological testing at Neurosurgery and Spine Consultants in San Antonio, TX.

Breck Leonard, PT, DPT (ECS)

Breck Leonard graduated from Rocky Mountain University of Health Professions in 2017 with a Clinical Doctorate of Physical Therapy. He has been working and managing an outpatient clinic in Pasco, Washington for 5 years. In 2019, he began EMG testing and completed his residency with AACE in 2020. He became board-certified in Clinical Electrophysiology in June 2021. At the same time, he completed a fellowship in musculoskeletal ultrasound imaging. These specialties have opened new avenues for treating his patients and continuing his education. Outside of work, he spends his time with his wife and four children. He loves to be outdoors, playing golf or paddleboarding are at the top of his list.

Rick McKibben, PT, DSc (ECS)

Dr. McKibben is a physical therapist and clinical electrophysiologist with over 28 years of clinical practice. He achieved a Doctor of Science in Clinical Electrophysiology from Rocky Mountain University and a Master of Science in Physical Therapy from North Georgia College. He works in private outpatient and hospital-based electrodiagnostic labs in the southeast with Integrity Diagnostics as a full-time electromyographer and administrator. He is board certified in Clinical Electrophysiology by the American Board of Physical Therapy Specialties. Dr. McKibben has mentored numerous physical therapists that have gone on to achieve ABPTS board certification and he teaches professional continuing education in the field of electrophysiological testing and has authored/co-authored several textbook chapters on electrodiagnostic testing. He presents routinely at national meetings, served as an associate professor in Rocky Mountain's DSc in Clinical Electrophysiology and serves as guest/adjunct faculty in the areas of neurophysiology, diagnostic tests and the electrophysiological evaluation at several universities. Dr. McKibben is active in the American Physical Therapy Association, the APTA's Academy on Clinical Electrophysiology and Wound Management. He has served in several leadership roles over the years including ACEWM Practice Chair, ACE Membership Chair, and Treasurer of both the ACEWM and ACEWM's EDX SIG.

Kathy Galloway, PT, DSc (ECS)

Dr. Galloway is a physical therapist, clinical electrophysiologist, professor and anatomist with over 31 years in clinical electrophysiologic practice. Dr. Galloway received a Master's degree in Physical Therapy from the US Army Baylor University program and a doctoral degree in Clinical Electrophysiology from Rocky Mountain University of Health Professions. Dr. Galloway is board certified in clinical electrophysiology by the American Board of Physical Therapy Specialists and has recertified two times.. Galloway is retired from the US Army reserve and currently works in private practice as an electromyographer. She has also been an educator for 26 years, teaching at Oakland University in Rochester, Michigan prior to Belmont University in Nashville TN. She has published many articles and book chapters with a current research focus on nerve injury, evaluation, and anatomy. She is a founding faculty member of the Belmont University Frist College of Medicine and has enjoyed teaching anatomy to physical therapy students for 18 years and medical students starting in 2024. Dr. Galloway serves as chair of the Clinical Electrophysiology Specialty Council currently and has served on the Specialty Council in the past as well as in leadership roles for the Academy on Clinical Electrophysiology and Wound Management.

David Johnson, PT, MPT (ECS)

David Johnson completed undergraduate studies at Brigham Young University in 1992, after which time he received his Master of Physical Therapy from Baylor University in San Antonio, Texas. David then completed a three-year residency in Electroneuromyography (EMG) at Ireland Army Community Hospital in Fort Knox, Kentucky. He went on to become the senior electroneuromyographer and then Director of Residency in EMG at the same hospital. David joined the Neurological Associates team in 1999 and has performed over 20,000 EMG procedures in his career. David often travels with his medical equipment to serve smaller communities throughout the state of Utah, where EMG services are not available. David's passion for helping and his unique experience allow him to benefit the lives of many people. David is certified by the American Board of Physical Therapy Specialties in Clinical Electrophysiology. He contributes to the academics of EMG as a frequent guest lecturer and researcher at Rocky Mountain University of Health Professions in Provo, Utah.

Alain Claudel, PT, DPT (ECS)

Dr. Claudel received his physical therapy degree from Université Claude Bernard Lyon 1 in 1988 and his DPT from Rocky Mountain University of Health Profession. He served as the Director of Rehabilitation Services at the Community Hospital of the Monterey Peninsula (CHOMP) where he has also served as the Wound Healing and Hyperbaric Medicine Program Coordinator. Dr. Claudel started practicing neurophysiology in 2005 and obtained his American Board of Physical Therapy Specialties (ABPTS) board certification in clinical electrophysiology (ECS) in 2008 and re-certified in 2018. In 2022 Dr. Claudel opened his own practice, Neurophysiology Solutions, and has been providing high quality studies to the greater Monterey, CA areas since that time. Dr. Claudel has been active in the ENMG community and currently serves on the ABPTS specialty council as the MOSC Item Review Coordinator. He has also provided lectures and presentations at multiple national conferences. He loves hiking and being outdoors and has served for the past 23 years as a volunteer on the Monterey County Sheriff's Office Search and Rescue Team.

Bryan Green, PT, DPT (ECS)

Bryan Green received his Bachelor of Health Science (2007), Master of Science in Physical Therapy (2007) and Doctor of Physical Therapy (2009) from the University of Kentucky. He was board certified in clinical electrophysiology by the American Board of Physical Therapy Specialists (ABPTS) in 2016 and has 12 years of experience in clinical electrophysiology. Currently he performs reelectrophysiologic studies full-time in an outpatient-based hospital setting in the Purchas area of Western Kentucky. Bryan was a member of the Specialist Academy of Content Experts for ABPTS from 2016 until 2021 and member of the clinical

electrophysiologic specialty council from 2021 through 2024. He presented at the Annual ENMG Symposium at Rocky Mountain University in 2019 and has taught multiple times in the RMUoHP ENMG training course. Bryan is a member of the American Physical Therapy Association, Clinical Electrophysiology and Wound Management Section and Kentucky Physical Therapy Association.

Matthew Okelberry, PT, DPT (ECS)

Dr. Okelberry graduated with an Exercise Science degree from Brigham Young University in 2016. He went on to earn his Doctor of Physical Therapy degree from South College in 2018. He later went on to complete an ECS residency with EMG Solutions in Nashville, TN. He directs EMG services for Mountain Land Physical Therapy in the Intermountain West, integrating electrodiagnostics with outpatient physical therapy and working towards a vision of “a primary care physical therapist for everyone.” He loves being with his wife and three young children. They enjoy home projects, long walks, camping, hiking, watching sports and playing games with family and friends.

Korry Wheeler, PT, DPT (ECS)

Korry Wheeler was born and raised in Western Wyoming, where he continues to live with his wife and three children. His father was the first physical therapist in the area and built a thriving practice that allowed Korry to be an active part of the profession from his youth. Korry served a religious mission with his church in Fresno, California before attending and graduating from Utah State University in Biology. Korry worked his way through college by managing a local golf course before receiving his pro status where he taught others how to love and play the game. While managing his father’s physical therapy practice, Korry was accepted to Rocky Mountain University of Health Sciences. He graduated with a DPT in 2014. He was able to return to his hometown to practice. He has worked in inpatient for 5 years and outpatient for 5 years. Shortly after graduating, Korry began performing EMG/NCS testing and eventually graduated from the HODS/AACE residency before becoming a board-certified clinic electrophysiology specialist in 2022. He has recently joined HODS/AACE as a mentor and faculty for EMG/NCS certification and residency students and is assistant program director. Korry currently works with Mountain West Orthopedics, providing EMG/NCS testing for patients in Star Valley, Wyoming and throughout Southwestern Wyoming. He played a significant role in helping to ensure that physical therapists were able to continue providing EMG/NCS testing in Wyoming. He advocates for advancing the autonomy of the physical therapy profession and has served on the 2022 practice analysis task force and an item writer for the FSBPT. He is currently serving as vice chairman of the electrodiagnostic special interest group in the academy of clinical electrophysiology and wound management in the APTA. In his spare time, Korry enjoys fishing, golfing, and teaching.

Erik Stålberg, MD, PhD

Erik Stålberg is Professor emeritus in Clinical Neurophysiology, Uppsala University. Together with J Ekstedt he developed the Single Fiber EMG method in the 1960-ties. After his PhD thesis on “Propagation velocity in Single muscle fibers” he joined the hospital EMG lab in Uppsala in 1967. He was chairman of the department 1993-2001. After retirement 2001 he continued in the lab with routine EDX work, research and teaching.

The early years were filled with methodological struggle to prove that it was possible to make recordings from individual muscle fibers and to document the usefulness of SFEMG in the evaluation of nerve-muscle diseases. His interest in signal analysis of various signal types in the EMG lab continues through his career and he implemented computers in routine analysis of the EMG signal in the late 1970-ties. Stålberg developed a number of EMG method in addition to SFEMG such as Macro EMG, Scanning EMG and quantitation of EMG and neurography. Through many publications, courses and lectures he has spread the message on how to implement useful diagnostic methods and how to optimize the value of EDX.

Leon Romero, PT, DSc (ECS)

Leon Romero, PT, DSc, OCS, ECS is presently the COO/Owner/Founder of Integrity Diagnostics and is a physical therapist with over 18 years teaching and clinical experience. He is the first person of Caribbean and African American descent to achieve board certification in Clinical Electrophysiology. As well as to complete a Doctorate in Clinical Electrophysiology. Dr. Romero is also the CEO-Founder of Synapse EMG Services, LLC and Physical Therapy Pros, LLC. These companies provide physical therapy, hand therapy and electrodiagnostic testing (EMG/Nerve Conduction Tnesting) services to clients in the metro Atlanta region. His clinical and teaching experience spans across multiple settings including outpatient physical therapy and electrodiagnostic testing, acute care, inpatient rehabilitation and aquatic physical therapy. Internationally, he is also one of the few ABPTS Board Certified Specialists who is doubly board certified in both Clinical Electrophysiology and Orthopedic Physical Therapy. There are only 210 physical therapists in the world who are Board Certified in Clinical Electrophysiology. This combination of education and experience places him in the top 1% of physical therapy and diagnostic testing providers globally. Other areas of expertise and interest include research in Clinical Electrophysiology, innovative treatment approaches for Orthopedic and Sports rehabilitation, and business strategy in the changing healthcare market.

Quinn Millington, PT, DPT (ECS)

Dr. Millington received his Bachelor of Science degree in Exercise Science from Brigham Young University in Provo, UT where he also earned a minor in psychology and studied Korean. He earned his Master of Science degree in Physical Therapy from the University of Alabama at Birmingham and a Doctor of Physical Therapy from Rocky Mountain University in Provo Utah. Dr. Millington is board certified in clinical electrophysiology and orthopedics. He has presented on orthopedic physical therapy and clinical electroneuromyography at CSM and as a guest lecturer at Alabama State University, Samford University, the University of Alabama at Birmingham and Auburn University, Montgomery. He is a member of the American Physical Therapy Association and the Alabama Physical Therapy Association and currently serves as the Clinical Electrophysiology Special Interest Group Chair within the Academy of Clinical Electrophysiology and Wound Management (ACEWM).

Description

The Annual Electroneuromyographic Symposium is designed specifically for healthcare providers that specialize in electroneuromyography (ENMG). Invited speakers (researchers, educators, and clinicians) are given a forum to present original research, topic reviews, and case reports. Either the full article or abstract is published in The Proceedings.

35th Annual Electroneuromyographic Symposium Course Objectives

1. Describe motor neuron disease and specifically ALS.
2. Describe the findings on physical examination as well as EMG and NCS studies of a patient with suspected MND (ALS).
3. Understand timing and role of surgical intervention for brachial plexus injury following shoulder dislocation.

4. Recognize the role of EDX in management and treatment of patients with brachial plexus injury following shoulder dislocation.
5. Identify the prevalence of neurologic complication for patients who have undergone solid organ transplant.
6. Identify key electrophysiologic findings for patients with neurologic complications following organ transplant who are treated with long term immunosuppressive medications.
7. Identify what myotonic discharges look and sound like.
8. Understand the differences between myotonia congenita and myotonic dystrophies.
9. Identify findings from the subjective and clinical exam that suggest cervical myelopathy in the patient with pre-existing upper motor pathology.
10. Using clinical and electrophysiological data, distinguish pre-existing upper motor neuron pathology and new onset upper and/or lower motor neuron pathology.
11. Understand the characteristics of multifocal acquired demyelinating sensory and motor neuropathy.
12. Understand the characteristics of a motor-based polyneuropathy or axonopathy.
13. Participants will be able to describe the anatomic variations of the cutaneous innervation of the dorsum foot.
14. Participants will be able to modify nerve conduction techniques to accommodate potential variations of the cutaneous innervation of the dorsum foot.
15. Recognize differences in clinical presentation of diseases of the motor neuron.
16. Identify electrophysiologic findings and their differences between multiple diseases of the motor neuron.
17. Understand the basis for neurography, quantitative EMG and Single Fiber EMG.
18. Understand how to choose between neurography and EMG and the benefits of how they complement each other.
19. Understand the anatomy of the median nerve and its branches in the forearm.
20. Understand the protocol and recognize the value of electrodiagnostic testing of the anterior interosseous nerve.
21. Recognize the healthcare issues affecting electrodiagnostic practice for physical therapists.
22. Identify strategies for affecting the outcomes of legislative actions affecting physical therapists and performance of electrodiagnostic studies in the United States.

Sponsor

