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**ACRM
ATLANTA
21–24 OCT 2020**

PRE-CONF: 19–21 OCT

ACRM
97th Annual
Conference

**PROGRESS IN
REHABILITATION
RESEARCH**

TRANSLATION
TO CLINICAL
PRACTICE



SOCIAL DISTANCING



**Pre-Conference
Instructional
Courses >>**

PAGES 10-17

INTERDISCIPLINARY

THE RESEARCH IS HERE

This is the world's largest interdisciplinary rehabilitation research conference. With fantastic growth and increasing interest each year, this is THE event for the science behind rehabilitation and the passionate, warm, and interprofessional community where ALL are welcomed. For maximum learning, CME/CEUs, value, networking & connecting — do not miss: ACRM.org/2020



FOR THE WHOLE REHAB TEAM

“Join us and learn how to put evidence into practice.”

PAMELA ROBERTS, PhD, OTR/L, SCFES, FAOTA, CPHQ, FNAP, FACRM, ACRM PRESIDENT; EXECUTIVE DIRECTOR, OFFICE OF CHIEF MEDICAL OFFICER; EXECUTIVE DIRECTOR AND PROFESSOR PHYSICAL MEDICINE AND REHABILITATION; CO-DIRECTOR, DIVISION OF INFORMATICS, DEPARTMENT OF BIOMEDICAL SCIENCES, CEDARS-SINAI; SR. DIRECTOR QUALITY, OUTCOMES, AND RESEARCH, CALIFORNIA REHABILITATION INSTITUTE



“This year, I’m especially excited for the increased networking opportunities, the diversity and depth of content, career development, and learning opportunities.”

BRAD KUROWSKI, MD, MS, FACRM, ACRM ANNUAL CONFERENCE PROGRAM COMMITTEE CO-CHAIR, CINCINNATI CHILDREN'S HOSPITAL MEDICAL CENTER



“ACRM is a home where I can combine clinical interests with my research and interact with people who are making decisions about rehab research”



DEBORAH BACKUS, PT, PhD, FACRM, ACRM PAST PRESIDENT, DIRECTOR, MULTIPLE SCLEROSIS RESEARCH AT SHEPHERD CENTER, EULA C. AND ANDREW C. CARLOS MS REHABILITATION AND WELLNESS PROGRAM AT SHEPHERD CENTER

“ACRM is truly the place where the clinic, research, academia, industry and science perspectives come together. Interdisciplinary engagement is the future for success in rehabilitation and ACRM not only fosters this but strives for this mission.”

MEGAN MITCHELL, PhD, ACRM ANNUAL CONFERENCE PROGRAM COMMITTEE CO-CHAIR, HUMAN FACTORS RESEARCHER



“ACRM is a great organization for early career professionals to advance their career with limitless networking opportunities.”

MONIQUE PAPPADIS, MED PhD, UNIV. OF TEXAS MEDICAL BRANCH AT GALVESTON

“ACRM is a place where I can meet face-to-face with collaborators, meet new people, welcome new early career individuals into the fold, help educate and collaborate. ACRM is a GREAT place to be.”

STEPHANIE KOLAKOWSKY-HAYNER, PhD, CBIST, FACRM, ACRM PRESIDENT-ELECT, ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI

Everyone is welcome at ACRM — all rehabilitation professionals, administrators, researchers, clinicians, consumers, family members, and caregivers.

AT-A-GLANCE

Subject to change. As of 22Feb20



PROGRESS IN REHABILITATION RESEARCH

TRANSLATION TO CLINICAL PRACTICE



NONSTOP CONTENT:

Brain Injury • Spinal Cord Injury • Stroke • Neuroplasticity • Cancer Rehabilitation • Neurodegenerative Diseases • Pain • Health Services Research • International • Measurement • Military/Veterans Affairs • Pediatric Rehabilitation • Geriatric Rehabilitation • Technology • Limb Restoration Rehabilitation • Lifestyle Medicine • Arts & Neuroscience • Complementary Integrative Rehabilitation Medicine • Athlete Development & Sports Rehabilitation • Rehabilitation Treatment Specification • Clinical Practice • Cross-Cutting

INTERDISCIPLINARY

MON
19 OCT

TUE
20 OCT

WED
21 OCT

THU
22 OCT

FRI
23 OCT

SAT
24 OCT

PRE-CONFERENCE

CORE CONFERENCE

Instructional Courses

Select from half- and full-day courses. Wide variety of topics
ACRM.org/ic

Instructional Courses

Select from half- and full-day courses. Wide variety of topics
ACRM.org/ic

ACRM Early Career Development Course

(lunch included)
Included in WORLD PASS
Limited space

ACRM.org/ecdc

Instructional Courses

Select from variety of half-day morning courses
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ARCHIVES Editorial Board Meeting

(By invitation only)

ACRM Community Group Meetings

OPEN TO ALL
(Few exceptions as noted in App and Online Program)

ACRM Community Group Meetings

Award Presentation
PLENARY II Bonato

Poster Grand Rounds
EXPO & Learning Center / Chat with Experts

CONCURRENT SESSIONS BLOCK 3

EXPO & Learning Center / LECTURE LUNCHEON
Chat with Experts

FEATURED SESSIONS:
Federal Funding & U.S. News & World Report

TECH Speed-Networking

Poster Viewing & Oral Presentations

CONCURRENT SESSIONS BLOCK 4

ACRM EXHIBITOR RECEPTION / Learning Center

Annual Membership Meeting
OPEN to ALL

Pre-Gala Cocktail Hour
OPEN to ALL

Henry B. Betts Awards Gala

ACRM Community Group Meetings

Award Presentation
PLENARY III Ferguson

Poster Grand Rounds
EXPO & Learning Center / Chat with Experts

CONCURRENT SESSIONS BLOCK 5

EXPO & Learning Center / LECTURE LUNCHEON
Chat with Experts

CONCURRENT SESSIONS BLOCK 6

Poster Viewing & Oral Presentations

CONCURRENT SESSIONS BLOCK 7

CONFERENCE WRAP-UP
CLOSING RECEPTION

TENTATIVE pending sponsorship.

YOUR LOGO HERE! Calling

sponsors: ACRM.org/sales

CORE END 1:30 PM

NEW! Interested in organizing a group dinner? Go to
ACRM.org/groupdinner



#ACRM2020



KEY

■ = CORE Educational Sessions

■ = ACRM EXPO & Learning Center & Posters

■ = Receptions: networking + fun

■ = ACRM Community Group Meetings

■ = Pre-Conference Instructional Courses & Workshops

■ = Ticketed event, separate registration required

Save the most by becoming an ACRM Member before you register. ACRM is a vibrant interdisciplinary community offering outstanding opportunities to connect, learn and collaborate with colleagues from around the world. Members receive discounts to all ACRM events and gain full access to 22+ interdisciplinary special interest groups, committees, task forces and networking groups. Being a member of ACRM means you will receive the *ARCHIVES of Physical Medicine & Rehabilitation*, *eNews*, our weekly newsletter and discounts on publication fees for *ARRCT*, our Open Access journal. Visit ACRM.org/join or contact MemberServices@ACRM.org.

JOIN ACRM & SAVE >>>

NOTE: Schedule to be finalized summer 2020. This infographic is for representational purposes only.
Use the ACRM Online Program ACRM.org/op for the latest.

Powerhouse Present

& dozens more. See ACRM.org/presenters

PLENARY I

21 OCT 5:15 PM - 6:15 PM

100 Years of the Archives of Physical Medicine and Rehabilitation: A Legacy of Disseminating the Best Evidence



CO-EDITORS-IN-CHIEF

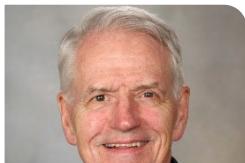


HEINEMANN



CHAN

ACRM.org/plenary1



BASFORD

LEIGHTON CHAN, MD, MPH, MS,

Chief, Rehabilitation Medicine
Department Clinical Center,
National Institutes of Health

ALLEN W. HEINEMANN, PhD,
ABPP, FACRM, Director, Center for
Rehabilitation Outcomes Research



JEFFREY BASFORD, MD, FACRM, Professor,
Physical Medicine and Rehabilitation, Mayo Clinic,
Past Editor-in-Chief, Archives of PM&R

FORD VOX, MD, FAAPMR, ABPMR, Medical
Director, Disorders of Consciousness; Program Chair,
Medical Ethics Committee, Shepherd Center

JASON ROBERTS, PhD, Senior Partner, Origin
Editorial

LYDIA TACX, MBA, Director Open Access
Enablement Journal Indexation, Elsevier



ROBERTS



TACX



VOX

PLENARY II

22 OCT 8:30 AM - 9:30 AM ACRM.org/plenary2



BONATO

*Can Data Collected
Using Wearable and
mHealth Technologies
Result in Improvements in
Rehabilitation Outcomes?*

PAOLO BONATO, PhD,
Associate Professor of Physical
Medicine and Rehabilitation,
Harvard Medical School

PLENARY III

23 OCT 8:30 AM - 9:30 AM

ACRM.org/plenary3



FERGUSON

*Applying Data
Science to Advance
Translational
Neurotrauma
Research*

ADAM R. FERGUSON, PhD,
Associate Professor, Weill Institute
for Neurosciences, University of
California, San Francisco (UCSF)

PLENARY IV

24 OCT 11:30 AM - 12:30 PM

ACRM.org/plenary4

*Addressing Inequities: Empowering People
Experiencing Disabilities*



COLANTONIO

ANGELA COLANTONIO, PhD,
OT Reg (Ont), FACRM, Professor
and Director, Rehabilitation Sciences
Institute, University of Toronto



ACRM
AMERICAN CONGRESS OF REHABILITATION MEDICINE

This is the first wave of featured presenters including plenaries and special symposia. More outstanding speakers will be announced as additional content is accepted and scheduled. This is just a “sneak peek” and “tip of the iceberg.” See the latest in the online program ACRM.org/op



FEDERAL FUNDING OPPORTUNITIES & INITIATIVES FOR REHABILITATION

ACRM.org/funding

FEATURED SESSION 22 OCT 2:00 PM - 3:15 PM

PATRICIA DORN, PhD, Director, Rehabilitation Research and Development Service, Department of Veterans Affairs

A. CATE MILLER, PhD, Rehabilitation Program Specialist, National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

TONY GOVER, PhD, Civilian Deputy Director, Clinical and Rehabilitative Medicine Research Program, United States Army Medical Research and Materiel Command

THERESA HAYES CRUZ, PhD, Acting Director, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health



DORN



MILLER



GOVER



CRUZ

U.S. NEWS & WORLD REPORT'S BEST HOSPITALS FOR REHABILITATION: RECENT CHANGES & FUTURE DIRECTIONS

FEATURED SESSION 22 OCT 2:00 PM - 3:15 PM

ACRM.org/harder



BEN HARDER, Chief of Health Analysis and Managing Editor, U.S. News & World Report



HARDER

LECTURE LUNCHEONS

ACRM.org/luncheons

12:30 PM - 1:45 PM SCHEDULE TO BE CONFIRMED

Lecture Luncheons are a ticketed event with separate registration.

Interacting With the Human Brain: How Can We Stimulate Positive Neuroplasticity?

LARA A BOYD, PT, PhD, Professor, University of British Columbia

LYNNE GAUTHIER, PhD, Associate Professor, University of Massachusetts Lowell

Frailty: A Common Theme and Opportunity in Multiple Sclerosis and Geriatric Rehabilitation

JONATHAN F. BEAN, MD, MPH, Professor, Harvard Medical School

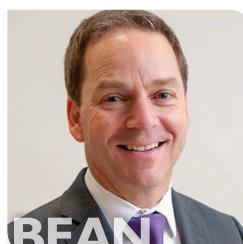
DEBORAH BACKUS, PT, PhD, FACRM, Director, Multiple Sclerosis Research, Shepherd Center



BOYD



GAUTHIER



BEAN



BACKUS

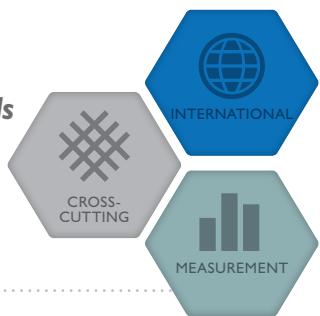
SPECIAL SYMPOSIA



BRUCKER INTERNATIONAL SYMPOSIUM: Conducting International Rehabilitation Randomized Controlled Clinical Trials

DINA BROOKS, PT, PhD, Professor, Vice-Dean (Health Sciences) and Executive Director, School of Rehabilitation Science, McMaster University

ACRM.org/brucker



4th Annual Women in Rehabilitation Science Symposium

ANGELA COLANTONIO, PhD, OT Reg (Ont), FACRM, Professor and Director, Rehabilitation Sciences Institute, University of Toronto

MARK A. HIRSCH, PhD, FACRM, Senior Scientist, Carolinas Rehabilitation/ Department of Physical Medicine and Rehabilitation



Bio-Integrated Sensors for Pediatric Rehabilitation

SHUAI "STEVE" XU, MD
MSc FAAD, Medical Director, Querrey Simpson Institute for Bioelectronics, Northwestern University Feinberg School of Medicine



Session & faculty Details in Searchable Online Program

ACRM.org/op

network > collaborate > improve > #ACRM2020



Cancer Rehabilitation Guidelines: Synthesizing Guideline Recommendations to Inform Practice



NICOLE L. STOUT, DPT, CLT-LANA, FAPTA, Research Assistant Professor, West Virginia University Cancer Institute

ALIX G. SLEIGHT, PhD, OTD, MPH, OTR/L, Cancer Prevention Fellow, National Cancer Institute

KELLEY R. COVINGTON, MS, Research Assistant, ReVital Cancer Rehabilitation & Colorado State University

KATHLEEN D. LYONS, ScD, OTR/L, Senior Scientist, Dartmouth-Hitchcock Medical Center

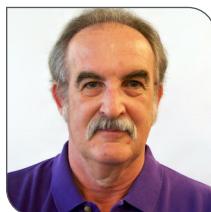
CATHERINE M. ALFANO, PhD, Vice President, Survivorship, American Cancer Society

DANIEL SANTA MINA, PhD, Assistant Professor, Faculty of Kinesiology and Physical Education, University of Toronto



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SPECIAL SYMPOSIA



Caring for Caregivers of Veterans or Service Members With Traumatic Brain Injury: Practical Implications for Civilian Healthcare Providers

NOELLE E. CARLOZZI, PhD, Associate Professor; Research Affiliate; Director Center for Clinical Outcomes, University of Michigan

ANGELLE M. SANDER, PhD, Associate Professor and Director, Division of Clinical Neuropsychology and Rehabilitation Psychology, Baylor College of Medicine

LARRY CERVELLI, BS, OT, FRCRM, Founder and Coordinator, Western Mass. Veterans Outreach Project, Retired Health Executive

CHRISTINA DILLAHUNT-ASPILLA, PhD, CRC, CVE, CLCP, CBIST, Associate Professor; Research Affiliate, University of South Florida; James A. Haley Hospital and Clinics, Rehabilitation Outcomes Research Service



Drumming & Movement: Arts Meet Science

BRIAN HARRIS, MA, MT-BC, NMT/F, Neurologic Music Therapist Fellow, MedRhythms, Inc

RON HIRSCHBERG, MD, Director, Physical Medicine and Rehabilitation, Massachusetts General Hospital; Consultation Service



Explore, Prepare, Implement, Sustain: Illustrating the Process of Rehab-related Implementation Research Across Settings



ADDIE MIDDLETON, DPT, PhD, Assistant Professor, Medical University of South Carolina

CATHARINE JOHNSTON-BROOKS, PhD, ABPP-CN, Clinical Neuropsychologist, Marcus Institute for Brain Health



ADAM R. KINNEY, PhD, OTR/L, Polytrauma/TBI Postdoctoral Fellow, Rocky Mountain MIRECC, Department of Veterans Affairs

JANET PRVU BETTGER, ScD, Associate Professor, Duke University

MIRIAM RAFFERTY, PT, DPT, PhD, NCS, Research Scientist II; Assistant Professor, Shirley Ryan AbilityLab, Northwestern University



Expanding Access to Rehabilitation via Telehealth

DAWN EHDE, PhD, Professor, Nancy & Buster Alvord Endowed Professorship in Multiple Sclerosis Research, University of Washington

ANNA KRATZ, PhD, Associate Professor, Department of Physical Medicine and Rehabilitation, University of Michigan



See the latest & more in the online program ACRM.org/op

SPECIAL SYMPOSIA

Improving Access to Sleep Apnea Diagnosis in Acute TBI to Maximize Neurorehabilitation Outcome



JOHN WHYTE, MD, PhD, FACRM, Institute Scientist Emeritus, Moss Rehabilitation Research Institute



RISA NAKASE-RICHARDSON, PhD, FACRM, Professor, Research Neuropsychologist, James A. Haley Veterans Hospital & University of South Florida



JEANNE M. HOFFMAN, PhD, Professor, University of Washington



JESSICA M. KETCHUM, PhD, Lead Biostatistician, Craig Hospital

JOSEPH COULTER, Stakeholder

JILL COULTER, Stakeholder

CHERRY JUNN, MD, Assistant Professor, PMRS, University of Washington (not pictured)

mRehab: New Models of Care Using Information & Communication Technology to Support Rehabilitation in the Home & Community



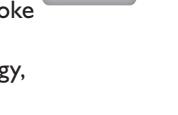
MIKE L. JONES, PhD, FACRM, Vice President of Research and Technology, Shepherd Center



Pioneering an Effective Stroke Rehabilitation Paradigm During the Acute Care Hospitalization



NNEKA L. IFEJIKA, MD, MPH, Section Chief of Stroke Rehabilitation; Associate Professor PM&R, Neurology, Neuurotherapeutics, UT Southwestern Medical Center



Person-Centered Rehabilitation & Beyond: Where We Are & Where We Could Go Next



CHRISTINA PAPADIMITRIOU, PhD, Associate Professor, Oakland University



SCI 2020: Here We Are, So Where Are We?



LYN JAKEMAN, PhD, Director, Division of Neuroscience, National Institute of Neurological Disorders and Stroke, National Institutes of Health



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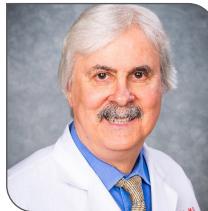
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SPECIAL SYMPOSIA

Promoting Real World Physical Activity to Improve Health Outcomes in Persons Living With Multiple Sclerosis

VICTOR W. MARK, MD, Associate Professor, Department of Physical Medicine and Rehabilitation, University of Alabama at Birmingham



ERWIN E. VAN WEGEN, PhD, Associate Professor, Amsterdam University Medical Center, Location VU Medical Centre



MARK A. HIRSCH, PhD, FACRM, Senior Scientist, Carolinas Rehabilitation/ Department of Physical Medicine and Rehabilitation



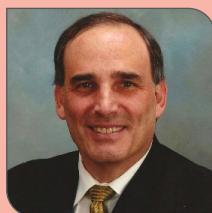
EKATERINA DOBRYAKOVA, PhD, Research Assistant Professor, Department of Physical Medicine and Rehabilitation, Rutgers New Jersey Medical School



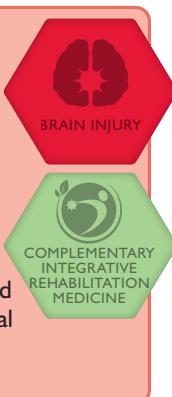
MICHELE K. YORK, PhD, ABPP-CN, Associate Professor, Section Head, Neuropsychology, Department of Neurology, Baylor College of Medicine



Quantitative Brain Functional Assessment: Mapping the Brain to Guide Rehabilitation

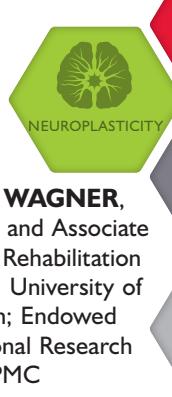


DAVID S. CANTOR, PhD, MS, FNAN, QEEG-D, QEEG-IBQE, BCN, CEO, Founder, Mind and Motion Developmental Centers, LLC



Rehabilomics Research: Towards a Precision Medicine Approach to Optimizing Function After Traumatic Brain Injury

AMY K. WAGNER, Professor and Associate Director, Rehabilitation Research, University of Pittsburgh; Endowed Translational Research Chair, UPMC



Risk Factors & Interventions for Co-occurring Substance Use Disorders

JOHN D. CORRIGAN, PhD, ABPP, FACRM, Professor, Department of Physical Medicine and Rehabilitation, Ohio State University; Director, Ohio Valley Center for Brain Injury Prevention and Rehabilitation



RACHEL SAYKO ADAMS, PhD, MPH, Scientist; Health Services Researcher, Institute for Behavioral Health at the Heller School for Social Policy & Management at Brandeis University; Veterans Health Administration Rocky Mountain Mental Illness Research Education and Clinical Center



AMY A. HERROLD, PhD, Research Health Scientist, Edward Hines Jr., VA Hospital



CHRISTINA DILLAHUNT-ASPILLAGA, PhD, CRC, CVE, CLCP, CBIST, Associate Professor; Research Affiliate, University of South Florida; James A Haley Hospital and Clinics, Rehabilitation Outcomes Research Service



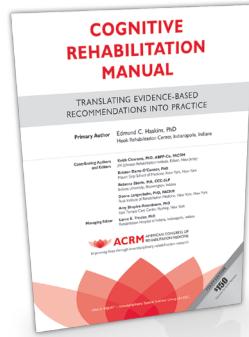
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PRE-CONFERENCE

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TWO TWO-DAY Brain Injury Courses 19 - 20 OCT



ACRM COGNITIVE REHABILITATION TRAINING

WHO SHOULD ATTEND? All kinds of professionals who want to up their game and family members and caregivers are welcome, too. Common titles of attendees are: speech-language professionals, psychologists, occupational and physical therapists, physicians and other professionals serving people with brain injuries.

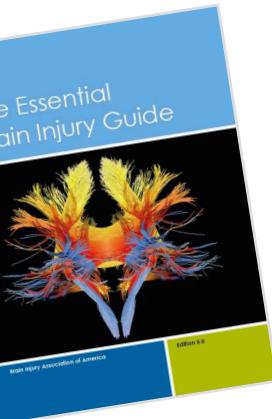
COURSE INCLUDES:

- 1) THE MANUAL:** Printed copy of the ACRM Cognitive Rehabilitation Manual (\$150 value) including worksheets. Also available for purchase separately
- 2) ONLINE COURSE:** Access to previously recorded Cognitive Rehabilitation Training (\$395 value) audio with slides. Also available for purchase separately
- 3) CME/CEUs:** 12.5 hours of continuing education in your choice of 10 disciplines

90%

of attendees surveyed say,
"I am likely to recommend
this training to colleagues."

Details & registration: ACRM.org/cogat1



CERTIFIED BRAIN INJURY TRAINING THE OFFICIAL ACADEMY OF CERTIFIED BRAIN INJURY SPECIALISTS (ACBIS) COURSE

19 - 20 OCT

The ACBIS training and certification exam are intended for paraprofessionals and professionals at all levels who want a strong foundation in the best practices in brain injury rehabilitation. This official ACBIS instructional course is designed to prepare participants to take the certification examination. An additional application process and fee are due in order to sit for the proctored exam.

Join more than 6,000 Certified Brain Injury Specialists worldwide and enjoy the support of the Academy offering brain injury education CEUs.

COURSE INCLUDES:

- 12 hrs of training (Day #1: 7 hrs; Day #2: 5 hrs)
- 12 hours of continuing education in your choice of 10 disciplines
- Access to downloadable training / slides
- Opportunity to sit for optional certification exam (additional fee applies)

For CBIS requirements, more info & registration: ACRM.org/acbis



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and Rehabilitation
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FACRM, Philadelphia
College of Osteopathic
Medicine



ANGIE JACKSON,
MS-CCC/SLP, MBA,
CBIST, Pate Rehabilitation



DAVE ANDERS, MS,
CCC-SLP, CBIST, On With
Life, Inc.



JULIA MARTON,
OT, CBIST, Baylor Scott
and White Institute for
Rehabilitation



ZENOBIA MEHTA,
MA, CCC-SLP, CCM, CBIST,
Corporate Educator, Centre
for Neuro Skills

PRE-CONFERENCE

WED 21 OCT 2020
8:00 AM - 3:00 PM

Early Career Development Course

ACRM
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The Early Career Development Course is a perennial favorite at ACRM that connects early career rehabilitation researchers with prominent and accomplished professionals. The course will provide opportunities to learn from experts in interdisciplinary team science, government agency representatives, and distinguished scientists who will provide insights through didactic presentations, panel discussions, small group discussions, and one-on-one networking.



The program will include presentations from representatives of major federal agencies discussing new rules and regulations as well as updates on early career opportunities. Officials from NIH, NIDILRR, VA, and the CDC will be available to give grantsmanship advice based on each organization's mission and funding priorities.

The Emerging Scholars Panel Session will feature early career research professionals who will share their experiences and insights about grant writing and successful implementation of research goals.

the best advice you've not yet heard...

A renowned keynote speaker, **Dr. Theresa Bender Pape**, with an outstanding reputation in the field of rehabilitation will share her work as well as key elements in professional development in keeping with the course theme.



Seats are limited, register early.
MORE: ACRM.org/ecdc

 This course is a ticketed event with separate registration. This ticket is included in the WORLD PASS for incredible value. See page 19



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 **ACRM** 97th Annual Conference

19 - 24 OCT 2020 ATLANTA HILTON

PRESENTERS

AMY HERROLD, PhD, Research Health Scientist, Edward Hines Jr., VA Hospital

<<< KEYNOTE SPEAKER: THERESA BENDER PAPE, DR.PH, MA, CCC-SLP/L, Neuroscientist, Edward Hines Jr. VAH and Northwestern Feinberg School of Medicine

MONIQUE R. PAPPADIS, MEd, PhD, Assistant Professor, University of Texas Medical Branch

REZA EHSANIAN, MD PhD, PGY2 Resident, Div. of Physical Medicine & Rehab., Dept. Neurosurgery, Univ. of New Mexico School of Med.

RALPH NITKIN, PhD, Health Scientist Administrator, National Center for Medical Rehabilitation Research, NICHD, NIH

BRIAN DOWNER, PhD, Assist. Prof., Univ. of Texas Medical Branch

ALISON COGAN, PhD, OTR/L, Polytrauma/TBI Advanced Fellow, Washington DC VA Medical Center

MARK LYLE, PT, PhD, Assistant Professor, Emory University School of Medicine, Division of Physical Therapy

MAYA E. O'NEIL, PhD, Neuropsychologist/Associate Professor, VA Portland Health Care System/Oregon Health & Science University

LYNN A. WOROBECY, PhD, DPT, ATP, Assist. Professor, University of Pittsburgh

CATHERINE SIENGSKON, PT, PhD, Associate Professor, University of Kansas Medical Center

PRESENTING AUTHORS

ALEXIS PETERSON, PhD, Health Scientist, National Center for Injury Prevention and Control-CDC

SHANNON B. JUENGST, PhD, CRC, Assistant Professor, University of Texas Southwestern Medical Center

PANELISTS

PATRICIA DORN, PhD, Director, Rehabilitation Research and Development Service, Department of Veterans Affairs

A. CATE MILLER, PhD, Rehabilitation Program Specialist, National Institute on Disability, Ind. Living & Rehab. Research (NIDILRR)

DEBORAH BACKUS, PT, PhD, FACRM, Director MS Research, Shepherd Center

GUY BUCKLE, MD, MPH, Director, Neuroimaging Research, Shepherd Center

SAMIR BELAGAJE, MD, Associate Professor, Neurology and Rehabilitation Medicine, Emory University School of Medicine

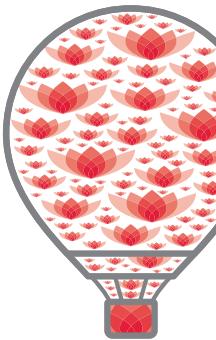
BROOKS C. WINGO, PhD, Associate Professor, Department of Occupational Therapy

MODERATORS

STEPHANIE KOLAKOWSKY-HAYNER, PhD, Associate Professor, Mt. Sinai Icahn School of Medicine

FOFI CONSTANTINIDOU, PhD, CCC-SLP, FACRM, Director/Professor, University of Cyprus

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**career
lifting
experience**

PRE-CONFERENCE



Instructional Courses

All courses are INCLUDED in the WORLD PASS. Continuing education credits and conference slides are included. A few content leaders elect not to have their slides available to attendees, therefore some sessions may not be included.

TWO-DAY INSTRUCTIONAL COURSE MON - TUE 19 - 20 OCT

IC2A & B Emerging Concepts & Evidence Basis behind Novel Approaches to Managing Chronic Spinal Pain

Pain CP INT NP TEC

MONDAY 19 OCT

FULL DAY 8:30 AM - 5:30 PM

| | | |
|------|--|--------------------------|
| IC29 | ACRM Leadership Development Course | Cross-Cutting |
| IC1 | Defining Ethical Guidelines for Augmented Intelligence | TEC CP Cross-Cutting ETH |
| IC3 | Roll With It – Advanced Wheelchair Skills Training for the Real World | Cross-Cutting ND CP |
| IC4 | Self-Management for individuals with stroke: An introduction and practical application | ST LM |
| IC23 | AFTERNOON 1:30 PM - 5:30 PM Management of Vision Deficits Following Acquired Brain Injury | BI CP |

TUESDAY 20 OCT

MORNING 8:30 AM - 12:30 PM

| | | |
|-----|---|--------------------|
| IC5 | A Guide to Best-Practice Interdisciplinary Goal Setting in Clinical Practice and Innovative Tools on Outcomes | CP BI TEC |
| IC6 | Longitudinal Data Analysis and Practical Workshop Using R: PART I INTRODUCTORY TOPICS | MEAS Cross-Cutting |

FULL DAY 8:30 AM - 5:30 PM

| | | |
|------|--|----------------------|
| IC7 | Aging Healthy is the New Normal: The Impact of New Knowledge, Practices & Innovative Tools on Outcomes | GER CP |
| IC8 | Commercialization Education for Translation of Neural Medical Devices and Technologies | TEC CP HSR |
| IC9 | Disorder of Consciousness: The Implementation of Guideline Recommendations for Interdisciplinary Clinical Rehabilitation Practice: An Interactive Course | BI CP |
| IC10 | Evidence-based Cognitive & Physical Rehabilitation Strategies for Improving Function & Wellbeing in People with MS | ND CP |
| IC11 | Integrating Patient Reported Outcomes (PRO) in Rehabilitation Clinical Practice | CP HSR MEAS |
| IC12 | Interdisciplinary Perspectives to Functional Measurement and Assessment of the Stroke Survivor | ST CP MEAS |
| IC13 | Optimizing Pediatric NeuroRecovery: Benefits of Early Intervention and Activity-Based Therapy | PED CP |
| IC14 | The User Experience & Usability Research: In-depth look at Interviews, Observational Studies & Usability Testing | Cross-Cutting TEC |
| IC15 | Vestibular Evaluation and Management in Individuals with Brain and/or Spinal Cord Injury | CP BI NP SCI |
| IC30 | Innovations in Limb Loss Rehabilitation | LR Cross-Cutting TEC |

AFTERNOON 1:30 PM - 5:30 PM

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| IC16 | Longitudinal Data Analysis and Practical Workshop Using R: PART II ADVANCED TOPICS | MEAS Cross-Cutting |
| IC17 | Using a Knowledge Translation Framework in Disability Research | CP |

WEDNESDAY 21 OCT

MORNING 8:30 AM - 12:30 PM

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|------|--|-------------------------------------|
| IC18 | An Electrifying Introduction to the Use of Functional Electrical Stimulation in Neurorehabilitation: A Hands-on Approach | CP BI GER PED SCI ST TEC |
| IC19 | Functional Assessment & Prism Adaptation Treatment for Spatial Neglect after Stroke | ST CP |
| IC20 | Interdisciplinary Care for Concussion/Mild Traumatic Brain Injury: A Model for Differential Diagnosis & Management | BI ADSR CP |
| IC21 | International Standards for Neurological Classification of Spinal Cord Injury: Improving Examination & Classification Accuracy | CP SCI |
| IC22 | Introduction to Culinary Coaching | LM BI CAN CP GER ND PAIN SCI ST TEC |
| IC24 | Maximizing Provider Communication with Patients with Neurological Disorders Across Clinical Settings | CP BI GER MIL ND ST |
| IC25 | NIH Toolbox: Innovative Assessments for Rehab Practice and Research | MEAS BI CP Cross-Cutting |
| IC26 | Proactive PNE: Incorporating Inter-Disciplinary Pain Neuroscience Education & Non-Pharmacological Pain Treatment Methods from a Health Systems Perspective | PAIN CP Cross-Cutting NP |
| IC27 | Rehabilitation for Functional Movement Disorders — The Works | CP Cross-Cutting MEAS |
| IC28 | Rehabilitation Treatment Specification System (RTSS): Principles and Application in Rehabilitation Education, Research & Clinical Practice | Cross-Cutting CP RTSS |



AN: Arts & Neuroscience **ADSR:** Athlete Development & Rehabilitation **BI:** Brain Injury Rehabilitation **CAN:** CANcer rehabilitation **CROSS-CUTTING / CC:** Spanning Diagnoses **CIRM:** Complementary, Integrative, Rehabilitation Medicine **CP:** Clinical Practice **GER:** GERiatric Rehabilitation **HSR:** Health Services Research **INT:** International **LR:** Limb Restoration Rehabilitation **LM:** Lifestyle Medicine **MEAS:** MEASurement **MIL:** MILitary/veterans affairs **ND:** Neurodegenerative Disease (e.g. MS, Parkinson's disease) **NP:** NeuroPlasticity (includes neuroscience) **PAIN:** PAIN rehabilitation **PED:** PEDiatric rehabilitation **QUAL:** QUALity Improvement & Implementation Science **RTS:** Rehabilitation Research Specifications **SCI:** Spinal Cord Injury **ST:** Stroke Rehabilitation **TEC:** TEChnology (robotics, assistive technology, mHealth)

PRE-CONFERENCE

Leadership Development Course

NEW!

Strengthening Personal Brand & Impressions

This session introduces the foundational skills of personal presence and the choices that can influence impressions. It starts with your personal brand and evaluating how people experience you in a business setting. Through group exercises, we help participants explore new choices that strengthen visibility and impact in any business setting.

featuring



With close to twenty-five years of global, corporate experience in advertising, marketing and communications, **Francie Schulwolf** is intimately familiar with the demands communicators face. This understanding, along with her honest and warm style, create a safe and comfortable environment for individuals to learn and grow. **SW&A** is a communications consulting firm and works with Fortune 500 companies to develop leaders at all levels and to strengthen communication influence and impact across an organization.



<<< "This course was created to empower the ACRM and rehabilitation medicine researchers and evidence-based practitioners to be the voices to move the field forward."
—**Pamela Roberts**, PhD, OTR/L, SCFES, FAOTA, CPHQ, FNAP, FACRM, ACRM President, Cedars-Sinai

This course is included in the WORLD PASS for incredible value. See page 19

Presenters are subject to change

MORE & REGISTER: ACRM.org/ldc

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ACRM 97th Annual Conference

19 – 24 OCT 2020 ATLANTA HILTON

13

ACRM TRAINING INSTITUTE

MON 19 OCT 2020

8:30 AM - 5:30 PM

Reception immediately following*



PRESENTERS

Join **Deborah Backus**, PT, PhD, FACRM as she moderates a panel of expert presenters including:

Gerben DeJong, PhD, FACRM, Senior Fellow, MedStar National Rehabilitation Hospital and, Professor, Georgetown University School of Medicine

Francie Schulwolf, Sally Williamson & Associates

Alex Seblatnigg, CAVS, Workshop presenter, Director of Volunteer Services & Internal Engagement, Shepherd Center

Sarah L. Batts, MBA, Workshop presenter, Executive Director, Shepherd Center Foundation

Get inspired to define your brand and develop executive presence. With honest and warm style, this session will be a safe and comfortable environment for you to learn and to grow. The focus will be on developing strong, confident communicators and leaders in rehabilitation medicine.

WHO SHOULD ATTEND

Everyone! All healthcare professionals — from early to mid to late-career researchers, clinicians, and other professionals eager to enhance their communication and leadership skills.

"Anyone who wants to learn how to be a more authentic, dynamic and effective leader in rehabilitation medicine needs to be at this course."

—**Deborah Backus**, PT, PhD, FACRM, ACRM >>>
Past President, Shepherd Center

for EVERYONE!

This course is for all healthcare professionals: clinicians, administrators & researchers



*Reception is only for those who registered for the Leadership Development Course.



SPONSORED BY THE SHEPHERD CENTER
honoring the late James Shepherd, Jr., founder.



Shepherd Center

PRE-CONFERENCE



TWO-DAY INSTRUCTIONAL COURSE

MON-TUE IC2A & IC2B: Emerging Concepts and Evidence Basis
Behind Novel Approaches to Managing Chronic Spinal Pain / Day 1 of 2 FOCUS: PAIN, CP, INT, NP
FACULTY: Areerat Suputtitada, Thiru Annaswamy

Two-day course in advanced spine pain management focusing primarily on Emerging Concepts and Novel Approaches, and current state of evidence. Register: ACRM.org/ic2

MONDAY 19 OCT

8:30 AM - 5:30 PM IC 29: **ACRM Leadership Development**
Course FOCUS: Leadership, CC
FACULTY: Deborah Backus, Gerben DeJong, Francie Schulwolf, Alex Seblatnigg, Sarah L. Batts

The field of rehabilitation is at a critical point, requiring strong leadership to substantiate and promote its role in facilitating recovery and health in people with disability. Meaningful leadership requires people who can influence others toward a common mission and goal. The best leaders are those who know and effectively leverage their leadership style to promote change and innovation, who utilize best practices for leadership, and who are inclusive of all people, from all related backgrounds, regardless of gender, race or ethnicity. This inaugural course is designed to help rehabilitation and research professionals begin to develop leadership skills necessary to advance and build the leadership capacity in rehabilitation medicine and research. The focus of this first course is to help individuals develop the confidence and assertiveness necessary to achieve greater personal success, significantly contribute to the goals of ACRM and ultimately to the field of rehabilitation medicine and research. Register: ACRM.org/ic29

8:30 AM - 5:30 PM IC 1: **Defining Ethical Guidelines for Augmented Intelligence** FOCUS: TEC, CP, CC, ETH
FACULTY: Lindsey Jarrett, Matthew Pjecha, Megan Mitchell

New developments in machine learning and AI has put healthcare on the cusp of another great technological leap, this time in automation and assisted decision making. However, great opportunities come with great risks. Recognizing the need to leverage its benefits and mitigate risks, this workshop is designed to aid in the development of ethical AI strategies tailored to the unique needs of healthcare. Questions related to keywords including fairness, inclusion, accountability, transparency, data privacy & security, reliability & safety will be addressed and leveraged to establish a healthcare intelligence framework for discussion and a foundation to be formatted into guidelines. Register: ACRM.org/ic1

8:30 AM - 5:30 PM IC 3: **Roll With It: Advanced Wheelchair Skills Training for the Real World** FOCUS: SCI, BI, CP, CC
FACULTY: Lindsey Jarrett, Matthew Pjecha, Megan Mitchell

Wheelchair skills are important for community access and quality of life, however many users report being unable to traverse uneven terrain, transfer between surfaces, or more advanced skills like negotiating curbs. In this hands-on workshop, you will learn how to effectively use the Wheelchair Skills Training Program (WSTP) to teach wheelchair users how to complete indoor, community and advanced wheelchair skills. We will discuss the role of wheelchair setup and how to make modifications to optimize skill performance. We will also present outcome measures that can be used to evaluate your training in a clinical setting. The session will include hands-on practice of completing, spotting and providing feedback on wheelchair skills. Register: ACRM.org/ic3

8:30 AM - 5:30 PM IC4 **Self-Management for Individuals with Stroke: An Introduction and Practical Application** FOCUS: ST, LM
FACULTY: Suzanne Burns, Valerie Hill, Leanna Katz, Lauren Thomas, Abiodun Akinwuntan, Patricia Heyn

Individuals living with stroke have long-term needs and may particularly benefit from self-management (Parke et al., 2015). Self-management in stroke aims to empower survivors to manage medical tasks, maintain and/or change behaviors for roles in everyday life, and manage the emotional consequences of stroke (Corbin & Strauss, 1988; Lorig & Holman, 2003; Schwartz, Capo-Lugo, & Heyn, 2019). The course will provide an in-depth training and knowledge translation regarding self-management for individuals with stroke. The course will provide basic information on self-management, the evidence supporting the use of self-management strategies for individual who have had a stroke. In the symposia, attendees will identify self-management strategies appropriate for their clients, brainstorm ways to incorporate various techniques into practice, and discuss barriers and implementation plans in small groups. The course will provide an opportunity for attendees to develop strategies to incorporate self-management techniques and... MORE & Register: ACRM.org/ic4

1:30 PM - 5:30 PM IC23 **Management of Vision Deficits Following Acquired Brain Injury** FOCUS: BI, CP
FACULTY: Cathy Stern

Visual processing problems are very common following brain injury. Hidden visual problems are often overlooked and when not treated they can impair or lengthen rehabilitation success. This course will assist you in diagnosing and understanding treatment for patients with visual deficits following brain injury. How to test for the specific visual deficits accompanying brain injury, concussion, stroke and trauma will be covered along with treatment protocols including lenses, prisms, filters, and neuro optometric vision rehabilitation. Dynamic case presentation will give you the opportunity to experience testing and treatment used to help more brain injury patients recover successfully. Register: ACRM.org/ic23

TUESDAY 20 OCT

8:30 AM - 12:30 PM IC5 **A Guide to Best-Practice Interdisciplinary Goal Setting in Clinical Practice**
FOCUS: CP, BI, CP, TEC
FACULTY: Penny Trayner, Andrew Bateman, Merryn Dowson

Goal setting is crucial in neurorehabilitation for encouraging collaboration in multi-disciplinary teams, motivating patients and tracking progress. The key components of good goal setting, however, are often misunderstood. This instructional course aims to outline the best-practice process for goal-setting in clinical neurorehabilitation practice, resolving confusion around terminology and interdisciplinary collaboration. The course will address barriers to change that can prevent the adoption of new goal-setting practices, and suggest avenues of change. Understanding the difficulty of applying theoretical procedures to clinical practice, the course will also offer an opportunity for operationalising the new skills learned with real-world clinical data. Register: ACRM.org/ic5

8:30 AM - 12:30 PM IC6 **Longitudinal Data Analysis and Practical Workshop Using R: Part I Introductory Topics** FOCUS: MEAS, CC
FACULTY: Allan Kozlowski, Keith Lohse

This combination lecture and hands-on workshop will introduce clinicians and researchers to longitudinal model building using linear mixed effects regression (LMER) in the R statistical environment. Rehabilitation outcomes are better suited to multi-level longitudinal modeling than to pre-post regression or repeated measures analysis of variance (RM-ANOVA). LMER has real advantages over RM-ANOVA in terms of flexibility and statistical power. Following the course, learners will be able to appraise existing

KEY AN: Arts & Neuroscience ADSR: Athlete Development & Rehabilitation BI: Brain Injury Rehabilitation CAN: CANcer rehabilitation CROSS-CUTTING / CC: Spanning Diagnoses CIRM: Complementary, Integrative, Rehabilitation Medicine CP: Clinical Practice GER: GERiatric Rehabilitation HSR: Health Services Research INT: International LR: Limb Restoration Rehabilitation LM: Lifestyle Medicine MEAS: MEASurement MIL: MILitary/veterans affairs ND: Neurodegenerative Disease (e.g. MS, Parkinson's disease) NP: NeuroPlasticity (includes neuroscience) PAIN: PAIN rehabilitation PED: PEDiatric rehabilitation QUAL: QUALity Improvement & Implementation Science RTS: Rehabilitation Research Specifications SCI: Spinal Cord Injury ST: Stroke Rehabilitation TEC: TEChnology (robotics, assistive technology, mHealth)

PRE-CONFERENCE

data for suitability to LMER, discuss the relevance of such models with statistical consultants, and plan for data collection in future projects which are suited to modeling outcomes longitudinally. Register: ACRM.org/ic6

8:30 AM - 5:30 PM IC7 Aging Healthy Is the New Normal: The Impact of New Knowledge, Practices and Innovative Tools on Outcomes FOCUS: CP, CP, GER FACULTY: Linda Borgmeyer, Harald Schubert, Martin Runge, Lisa Cecere

"Disrupt Aging!" says AARP's CEO, Jo Ann Jenkins. This battle cry challenges us to rethink current practices and perceptions of aging. In this course, participants will experience multiple methods of assessing and treating older adults using traditional, non-traditional, and innovative methods to improve balance, flexibility and power, resulting in more robust engagement in life. Using lecture, case studies, hands-on activities, and discussion, we will review current research, re-examine traditional assessment and treatment methods, and explore new quantitative testing, innovative tools and methods. Participants will receive a toolbox for assessment and remediation that can be directly applied to their current practices. Register: ACRM.org/ic7

8:30 AM - 5:30 PM IC8 Commercialization Education for Translation of Neural Medical Devices and Technologies FOCUS: TEC, CP, HSR FACULTY: Jon Lurie, Christine McDonough, Richard Greenwald, Angela Smalley, Ryan Ratts, Amaris Ajamil

Translating rehabilitation research to product and clinical practice is a primary focus of both innovators and funding agencies. This Instructional Course from the NIH-funded Center for Translation of Rehabilitation Engineering Advances and Technology (TREAT) will teach participants, in a highly interactive manner, the fundamental process for commercializing rehabilitation technologies. The course will focus on prioritizing activities to maximize efficiency and weigh opportunity costs. Speakers will provide unique perspectives and tools including clinical, engineering, and business aspects of product development and commercialization. Participants will also learn appropriate timing and best practices for conducting safety, usability, and comparative effectiveness studies during the product development lifecycle to satisfy regulatory, reimbursement, and clinical stakeholders. Participants will then be provided a rich online learning environment in which they can continue and... **MORE & Register:** ACRM.org/ic8

8:30 AM - 5:30 PM IC9 Disorder of Consciousness: The Implementation of Guideline Recommendations for Interdisciplinary Clinical Rehabilitation Practice: An Interactive Course FOCUS: BI, CP FACULTY: Brooke Murtaugh, Amy Rosenbaum, Katherine O'Brien, Susan Johnson, Craig DiTommaso

This one-day Disorders of Consciousness (DOC) instructional course has been developed for the treating clinician. This course will focus on application of evidence-based Clinical Guideline Recommendations as it relates to the domains of DOC assessment, diagnosis, medical management and prognosis. Content will assist attendees conceptualize how to develop transdisciplinary care plan and road map to optimize outcomes and quality of life for the DOC population. This course is appropriate for all disciplines working within DOC care and programs including physicians, neuropsychologists, therapists, nurses and care managers. Active learning group activities and case studies will be included to promote problem-solving, collaboration and networking among attendees. Register: ACRM.org/ic9

8:30 AM - 5:30 PM IC10 Evidence-based Cognitive and Physical Rehabilitation Strategies for Improving Function and Wellbeing in People with MS FOCUS: ND, CP FACULTY: Deborah Backus, Anna Berry, Guy Buckle, John DeLuca, Ian Flannery, Robert Motl, Ben Thrower, Tracy Walker

This 8-hour instructional course will present best evidence related to the pathophysiology and rehabilitation of MS, and an example of an integrated, comprehensive model of care that incorporates cognitive and

physical rehabilitation and a wellness approach to the management of MS. A combination of lecture and case study discussion will demonstrate the integration of evidence for the comprehensive management of symptoms and functional impairment in people with MS. Register: ACRM.org/ic10

8:30 AM - 5:30 PM IC11 Integrating Patient Reported Outcomes (PRO) in Rehabilitation Clinical Practice FOCUS: CP, HSR, MES FACULTY: Sara Ahmed, Zachary Boychuck, Jennifer Weaver, Namrata Grampurohit, Ann Guernon, Kristen Maisano, Richard Gershon, Emily Evans, Piper Hansen, Julie Schwertfeger, David Tulsky

An introductory course will be presented on implementation science and the integration of patient-reported outcomes (PRO) into clinical practice. Attendees will be introduced to guidelines that can be used to direct PRO use for patient care and quality improvement. Participants will learn about implementation science principles and how they can help identify strategies that address the contextual barriers and facilitators to using PRO measures in a specific clinical context. The course learning objectives will also target the evaluation of the implementation process and the effectiveness of using PRO measures for desired outcomes such as patient activation or goal achievement. Participants will benefit from ongoing initiatives and information exchange between participants using a structured and interactive approach. The course is intended for clinicians, but also for anyone with introductory knowledge of PROs and an interest in their use for enhancing clinical practice. Register: ACRM.org/ic11

8:30 AM - 5:30 PM IC12 Interdisciplinary Perspectives to Functional Measurement and Assessment of the Stroke Survivor FOCUS: ST, CP, MES FACULTY: Michelle Armour, Maria-Cecilia Alpasan, Veronica Rowe, Christina del Toro

Stroke is one of the leading causes of disability in the United States. Given stroke can affect all aspects of bodily function and abilities, multiple measurements and assessments are administered across disciplines. These measurements are critical in evaluating function and providing effective care for the stroke survivor. Clinical knowledge of various standardized assessments is required of all medical professionals to create effective goals for stroke patients to achieve functional outcomes. Register: ACRM.org/ic12

8:30 AM - 5:30 PM IC14 The User Experience and Usability Research: In-depth Look at Interviews, Observational Studies and Usability Testing FOCUS: CC, TEC FACULTY: Megan Mitchell, Rachel Proffitt

Technology is progressing at a rapid pace. This forces companies and research labs into design and development processes which often focus on quick turnaround. Healthcare facilities are forced into clinical decision-making processes which focus on reimbursement. These processes can minimize time and maximize profit but often leave the end-user hanging by a rope- creating a great need for understanding usability in order to provide the best care. Understanding the differences between usability research methods and how to choose an effective method can be overwhelming and seem complicated. However, even the smallest labs, clinics or startups can incorporate basic methods to improve their processes. This course will provide an overview of usability research methods- diving deeper into best practices for incorporating interviews and observational and usability studies and... **MORE & Register:** ACRM.org/ic14

8:30 AM - 5:30 PM IC15 Vestibular Evaluation and Management in Individuals with Brain And/or Spinal Cord Injury FOCUS: CP, BI, NP, SCI FACULTY: Alexandra Hamilton, Elana Karkowski-Schelar, Katherine Engquist, Lisa D'Aurio, Megan Haas, Tara Businski

Individuals who have sustained brain and/or spinal cord injuries often go through early stages of rehabilitation with vestibular dysfunction that is undiagnosed and/or untreated. In addition to complex rehabilitation needs and medical comorbidities, current evaluation and treatment techniques focus on positions and maneuvers that may not be accessible to individuals

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with mobility limitations. Without early diagnosis and treatment, these symptoms may prolong an individual's rehabilitation stay and limit his/her ability to make progress toward functional goals. This 8-hour workshop will offer clinicians the opportunity to improve clinical evaluation and management of vestibular dysfunction in individuals who have sustained central nervous system injury. This course will improve clinician competency and efficiency through lecture, use of an evaluation form, hands-on practice, and case study discussion. Course content will focus on intervention techniques to decrease symptoms and... **MORE & Register: ACRM.org/ic15**

8:30 AM - 5:30 PM IC13 Optimizing Pediatric NeuroRecovery: Benefits of Early Intervention & Activity-Based Therapy

FOCUS: CC, CP, NP **FACULTY:** Sarah Wright, Andrea Behrman, Dagmar Siebold, Harald Schubert, Jianhua Wu, Erin Eggebrecht

Well established scientific evidence demonstrates that activity is essential for the development and repair of the CNS, yet traditional rehabilitation lacks the intensity necessary to drive neural change. Activity-Based Therapy (ABT) offers high intensity activation of the nervous system to optimize capacity for recovery. In this course, past clinical assumptions will be compared to recent scientific evidence guiding development of ABT. We will describe various activity-based interventions with case study illustrations and supporting data. Special emphasis will be paid to the benefit of mechano-stimulation and emergent assessment tools with sufficient sensitivity to measure change in the very young patient. **Register: ACRM.org/ic13**

8:30 AM - 5:30 PM IC30 Innovations in Limb Loss Rehabilitation

FOCUS: LR, CC, TEC **FACULTY:** Faculty: Daniel Lee, Prateek Grover, Eric Lamberg, Farhad Ostovar, Kristin Reeves

"Osseointegration, targeted muscle reinnervation, micro-processor controlled powered knees and ankles."

What used to be reserved for science fiction is now a reality in the exciting world of limb loss rehabilitation and restoration. Attendees are invited to participate in this full-day exploration of the innovations and trends currently changing the way healthcare practitioners' practice. A multidisciplinary team of physicians, surgeons, pain specialists, rehabilitation therapists, and prosthetists will guide attendees on a trip through all of the exciting changes that are happening, and educate attendees on how to properly document, rehabilitate, and interpret the impact of these paradigm shifts. The course is open to all individuals with an interest in the care of persons with limb loss. **Register: ACRM.org/ic30**

1:30 PM - 5:30 PM IC16 Longitudinal Data Analysis and Practical Workshop Using R: Part II Advanced Topics **FOCUS:** MES, CC

FACULTY: Allan Kozlowski, Keith Lohse

Rehabilitation researchers and clinicians often deal with outcomes that evolve over time and are not suited to binary categorization of pre- post-assessments, as is common in other areas of medicine and healthcare. This course will build on our previously offered introduction to modeling longitudinal outcomes in a lecture and practical workshop format. Advanced topics include methods to assess data and model structure visually, statistically, and conceptually; and to fit more complex models and outcome types. While not a prerequisite, course participants will benefit from having a working knowledge of the introductory course content and of the R environment. **Register: ACRM.org/ic16**

1:30 PM - 5:30 PM IC17 Using a Knowledge Translation Framework in Disability Research

FOCUS: CP **FACULTY:** Ann Outlaw

Participants will learn concepts underpinning knowledge translation to move conceptual discoveries from scientific research into practice by improving the relevance and application of research. Following an introduction to the Knowledge-to-Action framework (Graham et al., 2006), participants will practice applying this framework to developing knowledge translation activities appropriate for the disability and rehabilitation context. **Register: ACRM.org/ic17**

WEDNESDAY 21 OCT

8:30 AM - 12:30 PM IC18 An Electrifying Introduction to the Use of Functional Electrical Stimulation in Neurorehabilitation: A Hands-on Approach **FOCUS:** CP, BI, GER, PED, SCI, ST, TEC

FACULTY: Kristin Musselman, Cindy Gauthier, Hardeep Singh, Hope Jervis Rademeyer

Functional electrical stimulation (FES) is an evidenced-based approach to the training of functional movements. A lack of knowledge and hands-on training in FES is a key barrier to its use in neurorehabilitation practice. This course will help clinicians: 1) understand the different electrical stimulation parameters and how each affects the neurophysiological response; 2) effectively manipulate stimulation parameters; and 3) apply one- and two-channel surface FES to the upper and lower extremities of adults and children with upper motor neuron lesions. This course is relevant to physical and occupational therapists, therapy assistants, physicians and nurses, as well as researchers with an interest in the clinical applications of FES. **Register: ACRM.org/ic18**

8:30 AM - 12:30 PM IC19 Functional Assessment & Prism Adaptation Treatment for Spatial Neglect After Stroke

FOCUS: ST **FACULTY:** Peii Chen, Kimberly Hreha, Kristin Newkirk

In this instructional course, we will first discuss the definition of spatial neglect and emphasize the clinical impact on stroke survivors. Next, we will explain the KF-NAP and offer participants the opportunity to practice using the assessment through access to patient cases via video. After, the KF-PAT will be introduced. Small groups will now learn to administer this treatment protocol by actually practicing with the equipment. Conclusions will be a discussion the practical implications of using both protocols in an inpatient rehabilitation facility. **Register: ACRM.org/ic19**

8:30 AM - 12:30 PM IC20 Interdisciplinary Care for Concussion/ Mild Traumatic Brain Injury: A Model for Differential Diagnosis and Management **FOCUS:** BI, ADSR, CP **FACULTY:** Tracey Wallace, Russell Gore, Gregory Brown, Cheryl Appleberry, April Hodge, Julia Hurtado

Recent advances in mild traumatic brain injury (mTBI) research have led to a greater understanding of mTBI resulting in rapid changes in the field and raising dilemmas about how to best apply current knowledge. This talk will discuss emerging data that illustrates dysfunction in cortical networks after mTBI and will describe cutting edge interdisciplinary diagnosis and treatment protocols. It will surface critical issues faced by leaders in the field who are working to apply this latest knowledge and will culminate in an interactive discussion aimed at reaching consensus among participants about approaches to addressing practice dilemmas and challenges to knowledge translation. **Register: ACRM.org/ic20**

8:30 AM - 12:30 PM IC21 International Standards for Neurological Classification of Spinal Cord Injury: Improving Examination & Classification Accuracy **FOCUS:** CP, SCI

FACULTY: Ronald Reeves, Steven Kirshblum, Brittany Snider

The International Standards for Neurological Classification of Spinal Cord Injury (ISNCSCI) are the most widely used system for characterizing neurological impairment in persons with SCI. Accurate assessment and classification are essential as results may impact prognostication, management decisions, and measurement/interpretation of research outcomes. Successful utilization of the ISNCSCI requires a comprehensive understanding of its rules and nuances. Advanced hands-on training, which complements the International Standards Training e-Learning Program (InSTEPI), is required to effectively apply the ISNCSCI in clinical and research practice. Formal ISNCSCI training has been shown to improve classification accuracy. This interactive pre-course will provide background, case examples, and hands-on practice to refine participants' skills in conducting the ISNCSCI examination and classification. The 2019

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ISNCSCL updates will be incorporated into the teaching session. [MORE & register: ACRM.org/ic21](#)

8:30 AM - 12:30 PM IC22 **Introduction to Culinary Coaching**

FOCUS: LM, BI, CAN, CP **FACULTY:** Rani Polak

Obesity and unhealthy nutrition are major public health and economic threats and disproportionately high among adults with disabilities. Most clinicians grapple with the challenge of enabling patients to be drivers of their own wellness regimen. Nutrition is a vital part of many rehabilitation conditions such as spinal cord injury, stroke, cancer rehabilitation, brain health, and geriatric rehabilitation. This culinary medicine course offers an introduction into culinary coaching, an evidence-based telemedicine strategy that combines culinary training with health and wellness coaching. Attendees receive the latest updates of the culinary coaching approach and acquire new skills, tools and resources to empower patients to adopt sustainable nutritious home cooking behavior. The economics of healthcare reform increasingly pressure clinicians to promote healthy nutrition. This course provides education and experience that will keep clinicians at the forefront of this critical global trend, leading by example to improve and increase healthy eating for patients and themselves. [Register: ACRM.org/ic22](#)

8:30 AM - 12:30 PM IC24 **Maximizing Provider Communication with Patients with Neurological Disorders Across Clinical Settings**

FOCUS: CP, BI, GER, MIL, ND, ST **FACULTY:** Jessica Brown, Kelly Knollman-Porter

Individuals with acquired neurological disorders suffer from a variety of communication challenges which directly contribute to the quality of care received in rehabilitation settings as well as the patient's long-term outcomes. Rehabilitation professionals can impact patient outcomes and enhance patient autonomy by implementing facilitative communication techniques. Sometimes referred to as augmentative and alternative communication (AAC), communication partner strategies and external supports can be used to ensure that the patient can participate fully in his/her care. The purpose of this instructional course is to provide knowledge of and hands-on practice with facilitative communication techniques to use with individuals with neurological disorders. [Register: ACRM.org/ic24](#)

8:30 AM - 12:30 PM IC25 **NIH Toolbox: Innovative Assessments**

for Rehab Practice and Research **FOCUS:** MES, BI, CP, CC **FACULTY:** Julie Hook, Richard Gershon, Cynthia Nowinski, Jerry Slotkin, David Tulsky, Pamela Kisala

The NIH Toolbox provides scores that are comparable across a broad range of age and ability levels, making it uniquely suited for use in lifespan assessment and evaluation of disorders covering an extensive spectrum of severity. Comprised of four 30-minute batteries (Cognition, Motor, Emotion, Sensation), the core suite of measures can be administered in two hours or less. All measures were evaluated for accessibility and cultural and ethnic applicability, and have demonstrated good reliability and validity. The NIH Toolbox was normed using a US Census matched sample of 4,859 participants (English and Spanish speaking), ages 3-85. Through this

interactive course, we discuss the science behind the NIH Toolbox as well as how to select, administer, score, and interpret NIH Toolbox measures. Participants will then be given hands-on experience using the NIH Toolbox iPad app on iPads provided by us. We welcome questions and discussion during the workshop. [Register: ACRM.org/ic25](#)

8:30 AM - 12:30 PM IC26 **Proactive PNE: Incorporating Inter-Disciplinary Pain Neuroscience Education and Non-Pharmacological Pain Treatment Methods from a Health Systems Perspective**

FOCUS: PAIN, CP, CC, NP **FACULTY:** Megan Doyle, Steven Kinney, Farhad Haeri

Pain neuroscience education initially emerged from a need to better treat chronic pain. While traditionally performed in the outpatient clinic setting format, research is now recognizing the need for pain education to move "upstream" to when an individual has an initial acute pain experience that places them into a health system. This workshop will detail how health systems can educate all staff members on how to speak to a patient in pain: namely, use of pain neuroscience education, "psychologically informed" practice, and promotion of non-pharmacological pain treatment interventions as the "first line defense" over opioids for patients via implementation of a "Pain Control & Comfort Menu." Participants will also learn a multitude of non-pharmacological interventions such as exercise, manual therapy, modalities, selected relaxation strategies and other mind-body techniques to foster self-management of pain, and to improve their ability to speak to patients in pain via a role play format. [Register: ACRM.org/ic26](#)

8:30 AM - 12:30 PM IC27 **Rehabilitation for Functional Movement Disorders—The Works**

FOCUS: CP, CC, MES **FACULTY:** Victor Mark, David Perez, Ginger Polich, Seth Herman

This Instructional Course will provide attendees the knowledge and skills to evaluate and manage the rehabilitation of Functional Movement Disorders (FMDs). Until recent years FMDs were underdiagnosed and overlooked for physical rehabilitation programs. However, recent studies indicate the neuroscientific findings of FMDs that implicate neurological disease. Moreover, clinical trials for FMDs have shown that physical rehabilitation (PT, OT) combined with Cognitive Behavioral Therapy (CBT) can rapidly and substantially overcome the disability. Our presenters will detail the scientific foundation for FMDs, methods to diagnose and triage FMDs in the acute hospital, foundation for developing an outpatient FMD rehabilitation program, and the evidence basis for improving FMDs with CBT combined with PT or OT. This course will be supplemented by video demonstrations of techniques for ruling-in FMDs and individual case presentations of FMDs in response to rehabilitation. At the conclusion of this course, attendees will be able to understand and manage FMDs. [MORE & Register: ACRM.org/ic27](#)

8:30 AM - 12:30 PM IC28 **Rehabilitation Treatment Specification**

System (RTSS): Principles and Application in Rehabilitation Education, Research, and Clinical Practice

FOCUS: CC, CP, CC **FACULTY:** Jeanne Zanca, John Whyte, Mary Ferraro, Susan Fasoli, Andrew Packel, Jarrad Van Stan, Sue Ann Sisto

This symposium will orient learners to the NIDILRR- and PCORI-funded Rehabilitation Treatment Specification System (RTSS), an interprofessional standardized system for defining and specifying rehabilitation treatments. Examples of clinical treatments and case scenarios will be discussed to: (1) elucidate the structure, principles, and terminology of the RTSS; (2) facilitate reflection on active ingredients and targets of rehabilitation interventions; and (3) demonstrate how the RTSS can stimulate critical thinking and strengthen clinical reasoning underlying the planning and delivery of interventions. Learners will be provided opportunities to practice applying the RTSS to treatments used in their clinical, academic, and/or research work. [MORE & Register: ACRM.org/ic28](#)





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| | | |
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| Conference Slides / PDFs <i>Digital access to all available symposia and pre-conference instructional course slide presentations (PDFs). A few content leaders elect not to have their slides available to attendees, therefore some sessions may not be included. Cognitive Rehabilitation Training and Early Career Development Course are not included.</i> | ✓ | ✓ |
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