61st Annual Meeting
5th World Congress on Exercise is Medicine® and
World Congress on the Role of Inflammation
in Exercise, Health and Disease

ADVANCE PROGRAM

May 27-31, 2014
Orange County Convention Center
and the Rosen Centre Hotel
Orlando, Florida USA

New This Year:
World Congress on the Role
of Inflammation in Exercise,
Health and Disease

See page 10 for more information

www.acsmannualmeeting.org
#ACSMAnnualMtg
Dear Friends and Colleagues:

On behalf of the Program Committee, I invite you to join us in Orlando, Florida for the 61st Annual Meeting, 5th World Congress on Exercise is Medicine® and World Congress on the Role of Inflammation in Exercise, Health and Disease. The Program Committee has organized an extraordinary array of original science and clinical sessions for the 2014 meetings. The Program Committee has added some enhancements to the Annual Meeting based on attendee feedback:

- Offering a World Congress on the Role of Inflammation in Exercise, Health and Disease. This launch of a new meeting-within-a-meeting will showcase each year a different basic and translational science topic.
- A clinical sports medicine track, including CAQ review sessions and clinical case thematic poster sessions
- The continuation of a Graduate and Early Career Day preconference focused on the development of careers for graduate students and early career professionals.

You will find a program that emphasizes exceptionally strong scientific and clinical content across the breadth of interests among our membership that only ACSM can deliver.

Many social and networking events are scheduled throughout the meeting, allowing members and guests a chance to get acquainted or reacquainted. Unscheduled time remains during the lunch hour and in the evenings for meeting with colleagues, exercising without feeling like you are missing out on important learning opportunities, or to take in some of the wonderful opportunities for recreation and dining that Orlando has to offer.

Lastly—but not least—there are the prestigious Wolfe, Dill and President’s Lectures on pages 4-5, which promise to be not-to-miss events. These scientists have been invited to showcase their outstanding contributions and insights on topics important to our membership.

Please make plans now to join us in Orlando to enjoy what promises to be one of the best ACSM meetings ever, celebrating ACSM’s 60th anniversary!

Sincerely,

Carol Ewing Garber, Ph.D., FACSM, FAHA
2014 Program Committee Chair, ACSM President-elect

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ACSM Thanks the 2014 Annual Meeting Supporters

The American College of Sports Medicine gratefully acknowledges the receipt of grants in support of the educational program currently from:
Calendar at-a-Glance

**Tuesday, May 27**
- 9:00 a.m.-6:00 p.m. Registration Open
- 11:30 a.m.-9:30 p.m. Committee Meetings (refer to schedule)
- 1:00-1:45 p.m. World Congress on Exercise is Medicine® Opening Keynote
- 2:00-5:05 p.m. World Congress on Exercise is Medicine® Sessions
- 3:00-7:00 p.m. Graduate and Early Career Day Preconference and Networking Opportunity
- 5:15-6:00 p.m. World Congress on Exercise is Medicine® Keynote
- 7:00-9:00 p.m. 60th Anniversary Welcome Reception

**Wednesday, May 28**
- 6:00 a.m.-6:00 p.m. Committee Meetings (refer to schedule)
- 6:30 a.m.-6:00 p.m. Registration Open
- 8:00-9:15 a.m. Joseph B. Wolffe Memorial Lecture
- 9:30 a.m.-5:15 p.m. Scientific and Clinical Sessions
- 1:30-6:00 p.m. Exhibit Hall Open
- 5:00-6:00 p.m. Exhibit Reception
- 5:30-7:00 p.m. Student Colloquium
- 5:45-7:15 p.m. Interest Group Meetings
- 7:30-9:00 p.m. Student Bowl

**Thursday, May 29**
- 6:00 a.m.-6:00 p.m. Committee Meetings (refer to schedule)
- 6:00-7:45 a.m. Josephine L. Rathbone Memorial Breakfast honoring ACSM’s Women
- 7:30 a.m.-5:00 p.m. Registration Open
- 8:00 a.m.-5:15 p.m. Scientific and Clinical Sessions
- 10:30-11:20 a.m. President’s Lectures
- 5:45-6:45 p.m. Basic Science Reception
- 5:45-6:45 p.m. Clinicians’ Reception with Poster Presentations
- 5:45-7:15 p.m. Interest Group Meetings
- 7:30-8:30 p.m. Diversity Reception (invitation only)
- 8:00-9:00 p.m. International Reception (invitation only)
- 8:00-9:30 p.m. Regional Chapter Socials

**Friday, May 30**
- 6:00 a.m.
- 6:00-7:30 a.m. 14th Annual Gisolfi Fun Run
- 7:30 a.m.-4:00 p.m. Committee Meetings (refer to schedule)
- 8:00-9:15 a.m. D.B. Dill Historical Lecture
- 8:00 a.m.-5:15 p.m. Scientific and Clinical Sessions
- 9:30 a.m.-2:00 p.m. Exhibit Hall Open
- 12:00-12:45 p.m. Student Meet the Expert Session
- 12:00-1:00 p.m. CEPA Business Meeting
- 5:45-7:00 p.m. New Fellow Reception (invitation only)
- 7:00-10:00 p.m. Cocktail Reception and Awards Banquet

**Saturday, May 31**
- 6:00-7:30 a.m.
- 7:15 a.m.
- 8:00-11:30 a.m. Registration Open
- 8:00-11:00 a.m. Scientific and Clinical Sessions
- 11:15 a.m.-12:05 p.m. President’s Lectures and Closing Remarks
Advance Registration
Avoid long lines by pre-registering for the 61st ACSM Annual Meeting by mail, fax, or at www.acsmannualmeeting.org. Discounted registration is available through April 23. Pre-registration services are available through May 14.

Cancellations
A service charge of $50 will be applied to all cancellations. Cancellations must be submitted in writing. Phone cancellations will not be accepted—however, email cancellation notification is acceptable if sent to meeting@acsm.org by April 23, 2014. No shows are not considered cancellations. Please review registration form for additional details.

Abstracts
Abstracts will be available online prior to the meeting. You will be sent a link by email. You will be able to plan your schedule and print only the abstracts that you’ll need (printed copies of the abstracts will not be available on-site).

International Registrants
The U.S. State Department requires that all visitors traveling to the U.S. from visa waiver countries register online through the Electronic System for Travel Authorization. For detailed information in U.S. entry requirements, please visit http://travel.state.gov.

Orange County Convention Center
Registration, exhibits and most educational sessions will be held in the West Building, at the southwest corner of International Drive and Convention Way. Please review the final program onsite for specific locations of your favorite events.

Member Service Center
ACSM’s Member Service Center is your one-stop resource for information on ACSM membership, certification, programs, and meetings. ACSM staff will be available to answer your questions throughout the meeting. Not a member? Stop by to learn more about membership benefits—and remember… Students can join for just $10!

Official Language
English is the official language of the meetings.

On-site Job Boards
Find qualified applicants for your available positions by placing a free job announcement on the on-site job board. Hundreds of qualified students and recent graduates search this board to find available positions. Submissions may be made on-site at the Member Service Center.

On Site Registration Hours
Register on site or pick up your materials at the Orange County Convention Center during the following hours:

- Tuesday, May 27: 9:00 a.m.-6:00 p.m.
- Wednesday, May 28: 6:30 a.m.-6:00 p.m.
- Thursday, May 29: 7:30 a.m.-5:00 p.m.
- Friday, May 30: 7:30 a.m.-4:00 p.m.
- Saturday, May 31: 8:00-11:30 a.m.

Time Zone
Orlando is part of the Eastern time zone.

Travel
For assistance in making travel arrangements to Orlando, consider using ACSM’s preferred Travel Agency, ALTOUR. To explore your travel options, email indycorp@altour.com
Annual Meeting Objectives

At the conclusion of the Annual Meeting, participants should be able to:

1. Evaluate the biological, biomechanical, psychological and behavioral changes accompanying exercise in both normal and pathological states.
2. Analyze state-of-the-art and innovative basic science, applied science, and clinical medicine in the areas of exercise, fitness, health, and physical performance.
3. Compare new approaches and perspectives concerning exercise science and sports medicine through interactive discussions with scientists and clinicians in related fields.
4. Recognize the importance of basic science research as it relates to diseases and conditions that exist due to physical inactivity.
5. Assess how physical activity research and practice can contribute to public health.

Clinically Specific Objectives:

6. Develop a treatment plan using current recommendations to prescribe effective exercise and physical activity plans to patients with different types of diabetes in order to improve glycemic control.
7. Formulate a plan to implement physical activity as a vital sign in order to increase physical activity assessment and counseling as a part of routine health care delivery.
8. Develop a plan for office-based physical activity promotion in order to effectively assess, prescribe, and refer patients for physical activity programs in the community in order to enhance health and prevent disease.
9. Determine a treatment plan for application of ultrasound guided injections in order to provide treatment for musculoskeletal disorders.
10. Evaluate appropriate diagnostic and treatment strategies for athletes with concussions in order to provide safe return to play recommendations.

Target Audience

ACSM members and professionals interested in the field of sports medicine and exercise science.

Earn Continuing Education Credits/Continuing Medical Education Credits

Accreditation

The American College of Sports Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

AMA/PRA Credits

The American College of Sports Medicine designates this live activity for a maximum of 29.25 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

ACSM CECs

The American College of Sports Medicine’s Professional Education Committee certifies that this continuing education offering meets the criteria for a maximum of 29.25 hours of ACSM Continuing Education Credit.

NATA – CEUs

ACSM is recognized by the Board of Certification, Inc. to offer continuing education (CE) for Certified Athletic Trainers (ATs).

29.25 CEUs awarded.

AAFP

Application for CME Credit has been filed with the American Academy of Family Physicians. Determination of credit is pending.
Educational Highlights

Renowned for its diversity, ACSM brings thousands of people together each year to learn from each other — top scientists, educators and clinicians. We are proud to spotlight the following lectures:

The Joseph B. Wolffe Memorial Lecture
Move to Live! Should Couches Be Sold With A Health Warning?

I-Min Lee, M.D., FACSM
Harvard Medical School
Boston, Massachusetts

Wednesday, May 28
8:00-9:15 a.m.

The D.B. Dill Historical Lecture
Living High: A History of High Altitude and Sports Medicine

Benjamin D. Levine, M.D., FACSM
Texas Health Presbyterian Hospital Dallas
Dallas, Texas

Friday, May 30
8:00-9:15 a.m.
Physical Activity to Prevent Major Mobility Disability: The Primary Results of the LIFE Study

Tuesday, May 27
1:00-1:45 p.m.
Marco Pahor, M.D.
University of Florida
Gainesville, Florida

Industrialising Physical Activity: Time to Act Big

Tuesday, May 27
5:15-6:00 p.m.
William Bird, M.D.
Intelligent Health
United Kingdom

EIM Keynotes (Held at Rosen Centre Hotel)

Skeletal Muscle – It’s More Than Just the Hamstring Strain

Thursday, May 29
10:30-11:20 a.m.
Thomas M. Best, M.D., Ph.D., FACSM
The Ohio State University
Columbus, Ohio

Fit for Your Life: Exercise Comes of Age

Thursday, May 29
10:30-11:20 a.m.
Maria A. Fiatarone Singh, M.D.
University of Sydney
Sydney, NSW, Australia

World Congress on the Role of Inflammation in Exercise, Health and Disease Keynote

Natural Products for the Prevention of Inflammatory Diseases: Mechanistic Insight

Thursday, May 29
1:00-1:50 p.m.
Ji-Young Lee, Ph.D.
University of Connecticut
Storrs, Connecticut

President’s Lectures

Promoting Healthy Eating and Physical Activity in Ethnically Diverse Communities: Research Challenges and Opportunities

Saturday, May 31
11:15 a.m.-12:05 p.m.
Janice L. Thompson, Ph.D., FACSM
University of Birmingham
Birmingham, United Kingdom

Rockin’ Physiology: Finding Exercise Physiology Questions in Uncommon Places

Saturday, May 31
11:15 a.m.-12:05 p.m.
J. Timothy Lightfoot, Ph.D., FACSM
Texas A&M University
College Station, Texas

Ralph S. Paffenbarger Tutorial Lecture

On Steps, Stairs, Sport and Sitting: Impacts on Health Across the Adult Lifespan

Wednesday, May 28
10:40-11:30 a.m.
Wendy J. Brown, Ph.D., FACSM
University of Queensland
Brisbane QL, Australia

Elsworth R. Buskirk Tutorial Lecture

VO2 Max: From Measurement to Application in Performance, Fitness and Disease Prevention

Thursday, May 29
8:00-8:50 am
Edward T. Howley, Ph.D., FACSM
University of Tennessee
Knoxville, Tennessee

John R. Sutton Clinical Lecture

Entitled to Compete. Destined to Tear Her ACL. What We Know, What We Don’t Know and Where Do We Go?

Friday, May 30
1:00-1:50 p.m.
Mary Lloyd Ireland, M.D., FACSM
UK Healthcare
Sports Medicine
Lexington, Kentucky
### Highlighted Symposia

#### Athlete Care and Clinical Medicine

**Diabetic Athletes in 2014: Off the Sideline and into the Game**  
Wednesday, May 28, 2014 1:00-3:00 p.m.  
Chair: Carrie A. Jaworski, FACSM  
Inigo San Millan  
Sheri R. Colberg, FACSM  
Russell D. White, FACSM  
Gary Hall, Jr.

#### Biomechanics and Neural Control of Movement

**Mobile Monitoring: Taking our Biomechanical Measures Outside the Laboratory**  
Wednesday, May 28, 2014 1:00-3:00 p.m.  
Chair: Irene S. Davis, FACSM  
J.J. Trey Crisco  
Thor Besier  
Scott G. McLean  
Ken Kaufman

#### Cardiovascular, Renal and Respiratory Physiology

**The Pulmonary Physiology of Exercise: Demands and Capacities - An Update**  
Wednesday, May 28, 2014 1:00-3:00 p.m.  
Chair: Tony G. Babb, FACSM  
A. William Sheel  
Bryan J. Taylor  
Paolo B. Dominelli  
Mickaël Martin  
Francois Maltais

#### Clinical Exercise Physiology

**Stress Testing: The Past, the Present and the Future**  
Thursday, May 29, 2014 1:00-3:00 p.m.  
Chair: Carl Foster, FACSM  
Jon Myers, FACSM  
Clinton Brawner, FACSM  
Sherry Pinkstaff

#### Environmental and Occupational Physiology

**Cellular Basis of Heat Stroke and Heat Injury**  
Saturday, May 31, 2014 9:00-11:00 a.m.  
Chair: Robert W. Kenefick, FACSM  
Thomas L. Clanton  
Michelle A. King  
Alberto Dolci  
David C. Clarke

#### Epidemiology, Biostatistics, Physical Activity/Health Promotion Interventions

**If You're Going to Talk the Talk, You've Got to Walk the Walk!**  
Wednesday, May 28, 2014 3:15-5:15 p.m.  
Chair: Janet E. Fulton, FACSM  
Joan Dorn  
David X. Marquez, FACSM  
Amy Eyler  
Michael Skipper  
Robert E. Sallis, FACSM

#### Fitness Assessment, Exercise Training, and Performance of Athletes and Healthy People

**Maximizing Exercise Performance across the Lifespan**  
Thursday, May 29, 2014 8:00-10:00 a.m.  
Chair: Monica Hubal, FACSM  
Gregory D. Myer, FACSM  
Jay R. Hoffman, FACSM  
Hirofumi Tanaka, FACSM  
David W. Russ

#### Immunology/Genetics/Endocrinology

**Is it Because of my Genes that my Jeans Don’t Fit?: Integrating the ‘-omics’ to Understand the Control of Activity and Weight**  
Thursday, May 29, 2014 3:15-5:15 p.m.  
Chairs: J. Timothy Lightfoot, FACSM and Linda S. Pescatello, FACSM  
Molly S. Bray  
J. Timothy Lightfoot, FACSM  
Mark A. Sarzynski

#### Metabolism and Nutrition

**Caloric Restriction and Fasting: Implications for Health, Weight Management and Performance**  
Thursday, May 29, 2014 1:00-3:00 p.m.  
Chairs: Melinda Manore, FACSM and Nancy R. Rodriguez, FACSM  
Eric Ravussin  
William J. Perez  
Erik Kirk, FACSM

#### Psychology, Behavior and Neurobiology

**Beyond Belief: The Placebo Effect In Sports Science Research And Practice**  
Wednesday, May 28, 2014 9:30-11:30 a.m.  
Chair: John Raglin, FACSM  
Fabrizio Benedetti  
Chris Beedie  
Jake Lindheimer  
Alan St Clair Gibson

#### Skeletal Muscle, Bone and Connective Tissue

**A Few Things Everyone Should Know About Epigenetics and Exercise Adaptations**  
Friday, May 30, 2014 9:30-11:30 a.m.  
Chair: John C. Quindry, FACSM  
Mark Hargreaves, FACSM  
John Chatham  
Susan Marsh  
Juleen R. Zierath
Clinicians…

Thematic Clinical Programming
Tailored Just for You!

The ACSM Annual Meeting has a full and robust schedule with multiple offerings for the sports medicine clinician. Presentations cover topics ranging from treatment options, translation of basic research to clinical practice, physical exam techniques, and professional development. The rich and diverse clinical program provides learning and professional growth opportunities for clinicians of all types and experience levels.

To view the clinical programming with session date/times click on the brochure link at www.acsmannualmeeting.org

Clinical Themes Include:
- From Bench to Bedside
- Professional Development/Practice Management
- Hot Topics
- Medical Topics
  - Recent Advances in Cardiology
  - Updates on Concussion in Sports
  - Sports Psychology
  - Pulmonary
  - Endocrine
  - Cancer
  - Dermatology
  - Renal
  - Doping
  - Supplements
  - Nutrition and Hydration
  - Environmental Concerns
- Musculoskeletal Topics
  - Improving Physical Exam Skills
  - Rehabilitation
  - Spine and Core
  - Thigh, Hip and Pelvis
  - Knee
  - Leg/Foot/Ankle
  - Shoulder
  - Elbow, Hand and Wrist
  - Novel Approaches to Diagnosis and Treatment of Musculoskeletal Conditions
  - Ligaments and Cartilage
  - Diagnostic Imaging
  - MRI
  - Fractures and Dislocations
- Clinical Decision Making and Return to Play Issues
- Injury Prevention
- Sports Specific Advances
- Special Populations
- Exercise for Disease Prevention, Health Promotion, and Treatment of Chronic Conditions

Wednesday, May 28, 2014

Highlighted Symposium
Diabetic Athletes in 2014: Off the Sideline and into the Game
1:00-3:00 p.m.
Carrie A. Jaworski, FACSM
Inigo San Millan
Sheri R. Colberg, FACSM
Russell D. White, FACSM
Gary Hall, Jr.

Thursday evening, May 29, 2014

Attend the Clinical Reception
5:45-6:45 p.m.
Network with top experts in your field at the clinical reception. The top eleven clinical abstracts and clinical case presentations have been selected for poster presentation during this event.

Friday, May 30, 2014

John R. Sutton Clinical Lecture
Entitled To Compete. Destined To Tear Her ACL. What We Know, What We Don’t Know and Where Do We Go?
1:00-1:50 p.m.
Mary Lloyd Ireland, M.D., FACSM
World Congress on the Role of Inflammation in Exercise, Health and Disease

New basic science World Congress! Programming highlights the role of inflammation in the future of medicine and the prevention of injury and disease from the cell to the system.

Wednesday, May 28, 2014

Highlighted Symposium
Regulation of Inflammation in Skeletal Muscle with Exercise
9:30-11:30 a.m.
Keynote Speakers: Frank Pizza, Mike Gleeson

Highlighted Symposium
Systemic Effects of Inflammation: Adipose, Nutrition, and Interventions
9:30-11:30 a.m.
Keynote Speakers: Giamila Fantuzzi, Richard Bruno

Symposium
Exercise is Medicine®: Obesity, Inactivity and the Chronic Inflammatory State
1:00-3:00 p.m.
Eric Hoffman, David Mosser, John Kirwan, FACSM, Victoria Viera-Potter, Susanna Hofmann

Tutorial Lecture
Aging and Cellular Senescence: Impact of Diet and Exercise
3:15-4:05 p.m.
Nathan LeBrasseur

Tutorial Lecture
Inflammatory Biomarkers: Link between Obesity and Cancer
3:15-4:05 p.m.
Derek Huffman

Tutorial Lecture
NIH: Effective Grant Applications
4:25-5:15 p.m.

Thursday, May 29, 2014

Highlighted Symposium
Chronic Inflammation, Cytokines, and Physical Activity
8:00-10:00 a.m.
Keynote Speakers: Sarah Witkowski, Joseph Cannon

Symposium
Exercise and Adipose Tissue in Health and Disease
8:00-10:00 a.m.
David Wright, Mark Hargreaves, FACSM, Henriette Pilegaard, John Hawley

Attend these Special Networking Events:
Graduate and Early Career Day Preconference and networking opportunity
Tuesday, May 27
3:00-7:00 p.m.

World Congress on Inflammation Reception
Come and socialize and network with other colleagues in the field
Thursday, May 29
5:45-6:45 p.m.

See pages 13-29 for a full listing of Annual Meeting programming and sessions in 12 topical tracks.

Session and Speaker information is subject to change.
Preconference
The Future of Sports Nutrition

Tuesday, May 27
10:30 a.m.-3:30 p.m.

Visit GSSIWeb.org to register

Chair: Lawrence Spriet, FACSM

Speakers:
Louise Burke, FACSM - Nutrition Supplements: Benefits, Risks and Regulations

John Hawley – Carbohydrate for Recovery: From General Recommendation to Individual Advice
Daniel Medina – Putting Theory Into Practice
Matthew Pahnke – Personalized Solutions to Prevent Gastrointestinal Distress
Luc van Loon – Protein: From General Recommendation to Individual Advice

(No AMA PRA Category 1 credits will be offered for this preconference)

Preconference and Networking Opportunity
Graduate and Early Career Day

Tuesday, May 27
3:00-6:00 p.m. General Session and Breakout Sessions
6:00-7:00 p.m. Early Career Networking Reception

Graduate and Early Career Day is focused on the development of careers for graduate students and early career professionals. The session promotes networking and mentorship between early career members and senior investigators for scientific outreach and career building. The sessions are open to all attendees but will be specifically targeted to graduate and early career participants.

The Graduate and Early Career Day requires no advance registration and attendance is free as part of the ACSM registration.

Early Career: Opening General Session
3:00-3:50 p.m.
1. Mission and structure
2. Opportunities for young investigators
3. ACSM 2014 Overview (how to get the most out of the conference)
4. Keynote Speaker – Barry Franklin, FACS, Director of Cardiac Rehabilitation Professor, William Beaumont School of Medicine, Oakland University
5. Introduction of different tracks

Track 1: Academic Careers – intended for attendees interested in pursuing careers in academics.
1. R1 vs. R2 vs. R3 schools – what’s the difference and what are the expectations of assistant professors at each?
2. Life on the Tenure Track – how to juggle research, teaching, and service to ensure that you go “up” not “out”

Track 2: Clinical Careers (OT, PT, MD, Sports Medicine, Cardiac Rehab) – intended for attendees who are interested in clinical careers
1. Finding the right fellowship
2. Setting yourself apart – what are OT/PT programs looking for?
3. Research in the clinical world

1. Translating your education into commercial success & health and wellness coaching
2. Opportunities in the private sector, science industry in R&D

Track 4: In Training (potential PhD or Post-Doc) – intended for attendees who are interested in applying for a PhD program or Post-Doctorial Position
1. To post-doc or not to post-doc: that is the question & how do I find a post-doctoral position?
2. How do I identify potential PhD programs? From finding an advisor to funding my training.
3. Funding opportunities: what are F, K, R or early-career awards and which is best for me?

Track 5: International Student Opportunities
1. How do I find a PhD program and/or a post-doc position in USA?
2. NIH and CDC opportunities for international students

(No AMA PRA Category 1 credits will be offered for this preconference)
Preconference
PINES 10 Questions, 10 Experts: Superfoods and Phytochemicals for Sports Performance

Tuesday, May 27
4:00-6:00 p.m., followed by the PINES reception

Athletes are always looking for the next superfood or phytochemical to enhance sports performance, improve recovery, body composition, or resilience to illness and injury. Are there special food chemicals or nutrients that can help athletes go higher, faster, or stronger?

**Moderators:** Louise Burke, FACSM and Nanna Meyer, FACSM

**Speakers:** Keith Baar, FACSM, Roger Harris, Adrian Hodgson, Andrew Jones, FACSM, Dan Moore, David Nieman, FACSM, Scott Powers, FACSM, Ashley Smuder, Lawrence Spriet, FACSM, Emma Stevenson

*(No AMA PRA Category 1 credits will be offered for this preconference)*

Save the Date!

62nd ACSM Annual Meeting, 6th World Congress on Exercise is Medicine and World Congress on Fatigue

May 26-May 30, 2015
San Diego, California

2015 Session Submission

2015 Abstract Submission
We will begin accepting Abstract submissions for the 2015 meeting in September, 2014. The deadline will be November 3, 2014.
### Programming

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| **Symposium**       | Best Practices 2014: Improving Runner Safety and Reducing Adverse Outcomes | Wednesday   | 9:30 a.m.-11:30 a.m. | William O. Roberts, FACSM, University of Minnesota  
                        Pierre d’Hemecourt, FACSM, Harvard University  
                        George Chiampas, Northwestern University |
| **Colloquium**      | Pearls and Pitfalls in Pediatric Athlete Injuries: Conditions Not to Miss | Wednesday   | 9:30 a.m.-10:20 a.m. | Greg Canty, Children’s Mercy Hospitals and Clinics  
                        Andrew Gregory, FACSM, Vanderbilt University |
| **Clinical Workshop-Hands On Demonstration** | Functional Testing | Wednesday | 9:30 a.m.-10:20 a.m. | Sarah J. de la Motte, Uniformed Services University of the Health Sciences |
| **Clinical Case Slide** | Elbow Issues | Wednesday | 9:30 a.m.-11:30 a.m. |                                                               |
| **Clinical Case Slide** | Head and Neck I | Wednesday | 9:30 a.m.-11:30 a.m. |                                                               |
| **Clinical Case Slide** | Knee I | Wednesday | 9:30 a.m.-11:30 a.m. |                                                               |
| **Tutorial Lecture** | Clinical Evaluation and Rehabilitation Principles in the Pediatric Athlete | Wednesday | 10:40 a.m.-11:30 a.m. | Gerardo Miranda, University of Puerto Rico  
                        William Micheo, FACSM, University of Puerto Rico |
| **Tutorial Lecture** | Eating to Win in the Pool! | Wednesday | 10:40 a.m.-11:30 a.m. | Ron Maughan, FACSM, University of Loughborough  
                        Louise Burke, FACSM, Australia Institute of Sport  
                        Margo Mountjoy, FACSM, FINA |
| **Clinical Workshop-Hands On Demonstration** | Acupuncture and the Care of Athletes | Wednesday | 10:40 a.m.-11:30 a.m. | Kevin Curley, Winthrop University Hospital  
                        Robert M. Otto, FACSM, Adelphi University |
| **Highlighted Symposium** | Diabetic Athletes in 2014: Off the Sideline and into the Game | Wednesday | 1:00 p.m.-3:00 p.m. | Carine A. Jaworski, FACSM, NorthShore University Healthsystem  
                        Inigo San Millan, University of Colorado School of Medicine  
                        Sheri R. Colberg, FACSM, Old Dominion University  
                        Russell D. White, FACSM, Truman Medical Center Lakewood  
                        Gary Hall, Jr., National Youth Sports Health & Safety Institute |
| **Tutorial Lecture** | A Voice in the Wilderness - Non-Operative Approaches to Common Surgical Issues? | Wednesday | 1:00 p.m.-1:50 p.m. | Rob Johnson, FACSM, University of Minnesota |
| **Clinical Workshop-Hands On Demonstration** | Office Based Fracture Management with FRC | Wednesday | 1:00 p.m.-1:50 p.m. | Allyson Howe, Maine Medical Center  
                        Heather Gillespie, FACSM, UCL |
| **Clinical Case Slide** | Foot and Ankle | Wednesday | 1:00 p.m.-2:40 p.m. |                                                               |
| **Clinical Case Slide** | Pediatric Issues | Wednesday | 1:00 p.m.-3:00 p.m. |                                                               |
| **Clinical Case Slide** | Sports Medicine - Anything Goes | Wednesday | 1:00 p.m.-3:00 p.m. |                                                               |
| **Free Communication/Poster** | Concussion | Wednesday | 1:00 p.m.-6:00 p.m. |                                                               |
| **Free Communication/Poster** | Musculoskeletal Rehabilitation, Prevention, Injury Evaluation | Wednesday | 1:00 p.m.-6:00 p.m. |                                                               |
| **Tutorial Lecture** | Musculoskeletal Ultrasound: Does the Evidence Support its Widespread Use? | Wednesday | 2:10 p.m.-3:00 p.m. | John C. Hill, FACSM, University of Colorado  
                        Erik S. Adams, FACSM, Midwest Sports Medicine |
| **Clinical Workshop-Hands On Demonstration** | Treatment of Common Joint Dislocations in Sports Medicine | Wednesday | 2:10 p.m.-3:00 p.m. | Kenneth P. Barnes, FACSM, Kormedico Clinic Orthopaedics and Sports Medicine  
                        Andrew Gregory, FACSM, Vanderbilt Orthopaedic Institute |
| **Symposium**       | ACSM/AMSSM: CAQ Review Session (Part I) | Wednesday | 3:15 p.m.-5:15 p.m. | William W. Dexter, FACSM, Maine Medical Center  
                        Carrie A. Jaworski, FACSM, NorthShore University Healthsystem  
                        John P. DiFiori, FACSM, UCLA Division of Sports Medicine  
                        Tracy R. Ray, FACSM, Duke University  
                        Rob Johnson, FACSM, University of Minnesota  
                        Katherine Rutherford, Maine Ortho  
                        Chad Asplund, FACSM, Eisenhower Army Medical Center |

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<th>Event Type</th>
<th>Title</th>
<th>Day</th>
<th>Time</th>
<th>Presenters</th>
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</thead>
<tbody>
<tr>
<td>Clinical Workshop-Hands On Demonstration</td>
<td>Basic Pediatric Gait and Alignment Analysis for the Sports Medicine Clinician</td>
<td>Wednesday</td>
<td>3:15 p.m.-4:05 p.m.</td>
<td>Blaise Nemeth, University of Wisconsin School of Medicine and Public Health Natalie Stork, University of Iowa Hospitals and Clinics James Patrick MacDonald, FACSM, Nationwide Children's Hospital/The Ohio State University</td>
</tr>
<tr>
<td>Free Communication/Slide</td>
<td>Concussion: Newest Research</td>
<td>Wednesday</td>
<td>3:15 p.m.-5:15 p.m.</td>
<td>Natalie Stork, University of Iowa Hospitals and Clinics John Chong, Musicians' Clinics of Canada Jeff Russell, Ohio University</td>
</tr>
<tr>
<td>Clinical Case Slide</td>
<td>Cardiopulmonary I</td>
<td>Wednesday</td>
<td>3:15 p.m.-4:55 p.m.</td>
<td>James Patrick MacDonald, FACSM, Nationwide Children's Hospital/ The Ohio State University</td>
</tr>
<tr>
<td>Clinical Case Slide</td>
<td>Knee II</td>
<td>Wednesday</td>
<td>3:15 p.m.-5:15 p.m.</td>
<td></td>
</tr>
<tr>
<td>Clinical Case Slide</td>
<td>Things to Not Ignore</td>
<td>Wednesday</td>
<td>3:15 p.m.-5:15 p.m.</td>
<td></td>
</tr>
<tr>
<td>Colloquium</td>
<td>Athletes and the Arts - Your Opportunity to Help Performing Artists</td>
<td>Wednesday</td>
<td>4:25 p.m.-5:15 p.m.</td>
<td>Randall Dick, FACSM, Health and Safety Sport Consultants, LLC John C. Hill, FACSM, University of Colorado Denver School of Medicine</td>
</tr>
<tr>
<td>Colloquium</td>
<td>Leadville 100, The Ultimate Ultra-Endurance Race: Where Attitude Meets Altitude</td>
<td>Wednesday</td>
<td>4:25 p.m.-5:15 p.m.</td>
<td>Morteza Khodaee, FACSM, University of Colorado Denver School of Medicine John C. Hill, FACSM, University of Colorado Denver School of Medicine</td>
</tr>
<tr>
<td>Clinical Workshop-Hands On Demonstration</td>
<td>Elbow Ultrasound</td>
<td>Wednesday</td>
<td>4:25 p.m.-5:15 p.m.</td>
<td>Peter H. Seidenberg, FACSM, Penn State University Jimmy D. Bowen, Southeastern Missouri State University</td>
</tr>
<tr>
<td>Symposium</td>
<td>ACSM/AMSSM: CAQ Review Session (Part II)</td>
<td>Thursday</td>
<td>8:00 a.m.-10:00 a.m.</td>
<td>William W. Dexter, FACSM, Maine Medical Center Carrie A. Jaworski, FACSM, NorthShore University HealthSystems John P. DiFiori, FACSM, UCLA Division of Sports Medicine Elizabeth A. Joy, FACSM, University of Utah Craig C. Young, FACSM, Medical College of Wisconsin Heather Gillespie, FACSM, UCLA Scott Farr, FACSM, InterMed Sports Medicine</td>
</tr>
<tr>
<td>Symposium</td>
<td>FAI in the Young Athlete: The Diagnosis and the Decision to Operate</td>
<td>Thursday</td>
<td>8:00 a.m.-10:00 a.m.</td>
<td>Lyle J. Micheli, FACSM, Boston Children's Hospital/ Harvard Medical School Andrea Stracciolini, FACSM, Boston Children's Hospital - Harvard Medical School Pierre A. d'Hemecourt, FACSM, Boston Children's Hospital - Harvard Medical School Yi Meng Yen, Boston Children's Hospital - Harvard Medical School</td>
</tr>
<tr>
<td>Colloquium</td>
<td>Deaths in Wrestling - Challenges of Changing Sport Culture Through Science and Policy</td>
<td>Thursday</td>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Randall Dick, FACSM, Health and Safety Sport Consultants, LLC Craig Horswill, FACSM, Cardinals Robert Oppelger, FACSM, Cardinals</td>
</tr>
<tr>
<td>Clinical Workshop-Hands On Demonstration</td>
<td>How to Fix SI Joint Dysfunction: A Manual Therapy Approach</td>
<td>Thursday</td>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Kelly Roberts Lane, Fix It Physical Therapy</td>
</tr>
<tr>
<td>Clinical Case Slide</td>
<td>Bone Issues</td>
<td>Thursday</td>
<td>8:00 a.m.-10:00 a.m.</td>
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<tr>
<td>Clinical Case Slide</td>
<td>Cardiopulmonary II</td>
<td>Thursday</td>
<td>8:00 a.m.-10:00 a.m.</td>
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<tr>
<td>Clinical Case Slide</td>
<td>Football</td>
<td>Thursday</td>
<td>8:00 a.m.-10:00 a.m.</td>
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</tr>
<tr>
<td>Colloquium</td>
<td>Body Checking and Tackling in Youth Collision Sports: Point/Counterpoint</td>
<td>Thursday</td>
<td>9:10 a.m.-10:00 a.m.</td>
<td>James MacDonald, FACSM, Nationwide Children's Hospital/ The Ohio State University Peter Kriz, Rhode Island Hospital/Brown University</td>
</tr>
<tr>
<td>Clinical Workshop-Hands On Demonstration</td>
<td>Gait Analysis in the Athlete</td>
<td>Thursday</td>
<td>9:10 a.m.-10:00 a.m.</td>
<td>Matt Werd, FACSM, American Academy of Podiatric Sports Medicine Tim Dutra, FACSM, Samuel Merritt University-California School of Podiatric Medicine</td>
</tr>
<tr>
<td>Symposium</td>
<td>Evidence Informed Sports Medicine: Demystifying and Demystifying the Role of Evidence</td>
<td>Thursday</td>
<td>1:00 p.m.-3:00 p.m.</td>
<td>Steven D. Stovitz, FACSM, University of Minnesota Ian Strier, FACSM, McGill University Evert Verhagen, EMGO Institute at the VU Medical Center</td>
</tr>
<tr>
<td>Tutorial Lecture</td>
<td>ACSM/NASS Joint Lecture: Beyond Stingers/Burners: Causes of Upper Extremity Pain and Weakness in the Athlete</td>
<td>Thursday</td>
<td>1:00 p.m.-1:50 p.m.</td>
<td>Stanley A. Herring, FACSM, University of Washington Leah G. Connannon, University of Washington</td>
</tr>
<tr>
<td>Clinical Workshop-Hands On Demonstration</td>
<td>Electrodiagnostics Basics for the Sports Medicine Physician</td>
<td>Thursday</td>
<td>1:00 p.m.-1:50 p.m.</td>
<td>Fazah Hamed, Columbia University Medical Center</td>
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</table>
Clinical Case Slide  | Lower Extremity I (Hip)  | Thursday  | 1:00 p.m.-2:40 p.m.
Clinical Case Slide  | Neurologic Issues  | Thursday  | 1:00 p.m.-3:00 p.m.
Clinical Case Slide  | Running Issues  | Thursday  | 1:00 p.m.-3:00 p.m.
Free Communication/Poster  | Ultrasound  | Thursday  | 1:00 p.m.-4:00 p.m.
Exchange Lecture  | American Orthopaedic Society for Sports Medicine Exchange Lecture: Who needs a HipScope?  | Thursday  | 2:10 p.m.-3:00 p.m.
Clinical Workshop-Hands On Demonstration  | Physical Exam of the Cervical Spine  | Thursday  | 2:10 p.m.-3:00 p.m.
Tutorial Lecture  | Patient Reported Outcome Measures in Sports Medicine  | Thursday  | 2:10 p.m.-3:00 p.m.
Symposium  | Return to Play Decision Making After Concussion: Challenging Questions  | Thursday  | 3:15 p.m.-5:15 p.m.
Exchange Lecture  | American Medical Society for Sports Medicine Exchange Lecture - Overuse Injuries and Burnout in Youth Sports: Always in Season  | Thursday  | 3:15 p.m.-4:05 p.m.
Tutorial Lecture  | Sonographic Anatomy and Pathology of the Hip  | Thursday  | 3:15 p.m.-4:05 p.m.
Clinical Workshop-Hands On Demonstration  | Functional Evaluation of Dancers  | Thursday  | 3:15 p.m.-4:05 p.m.
Clinical Case Slide  | Aches and Pains  | Thursday  | 3:15 p.m.-3:15 p.m.
Clinical Case Slide  | Head and Neck II  | Thursday  | 3:15 p.m.-3:15 p.m.
Clinical Case Slide  | Lower Extremity Issues II  | Thursday  | 3:15 p.m.-3:15 p.m.
Tutorial Lecture  | Adaptive Sports Medicine  | Thursday  | 4:25 p.m.-5:15 p.m.
Clinical Workshop-Hands On Demonstration  | Hip Exam  | Thursday  | 4:25 p.m.-5:15 p.m.
Clinical Poster/Reception  | Clinical Poster Reception  | Thursday  | 5:45 p.m.-6:45 p.m.
Symposium  | Dealing With Exercise Respiratory Issues in Athletes  | Friday  | 9:30 a.m.-11:30 a.m.
Symposium  | The Adolescent Female: Finding Balance in Activity, Nutrition and Health  | Friday  | 9:30 a.m.-11:30 a.m.
Tutorial Lecture  | SSRIs to Stimulants: Challenges in Prescribing Psychoactive Medications to Athletes  | Friday  | 9:30 a.m.-11:10 a.m.
Clinical Workshop-Hands On Demonstration  | Shoulder Ultrasound  | Friday  | 9:30 a.m.-10:20 a.m.
Tutorial Lecture  | Outcomes from the Team Physician Conference - Strength and Conditioning Revision  | Friday  | 9:30 a.m.-10:20 a.m.
Clinical Case Slide  | Lumps and Bumps  | Friday  | 9:30 a.m.-11:30 a.m.
Clinical Case Slide  | Shoulder Issues  | Friday  | 9:30 a.m.-11:30 a.m.
Clinical Case Slide  | The Mature Athlete  | Friday  | 9:30 a.m.-11:10 a.m.
Clinical Workshop-Hands On Demonstration  | H&P to MRI- Shoulder  | Friday  | 10:40 a.m.-11:30 a.m.
Colloquium  | The Diagnosis and Management of Acute Hemarthrosis in Competitive and Recreational Athletes  | Friday  | 10:40 a.m.-11:30 a.m.
John R. Sutton  | Entitled To Compete. Destined To Tear Her ACL. What We Know, What We Don’t Know and Where Do We Go?  | Friday  | 1:00 p.m.-1:30 p.m.

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<th>Session</th>
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<tr>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Tutorial Lecture: Examination of the Shoulder</td>
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<tr>
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<td>Jim Macintyre, FACSM, 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Tutorial Lecture: Knee Ultrasound</td>
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<td>Garrett S. Hyman, Lake Washington Sports &amp; Spine, 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Tutorial Lecture: Examination of the Injured Foot and Ankle</td>
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<td>Joseph Ihm, Rehabilitation Institute of Chicago, 4:05 p.m.-5:15 p.m.</td>
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<tr>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Tutorial Lecture: NATA Exchange Lecture - Implementing the NATA Position Statement on the</td>
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<td>James Borchers, FACSM, 4:05 p.m.-5:15 p.m.</td>
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<tr>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Tutorial Lecture: Addressing the Conservative Management and Prevention of Ankle Sprains</td>
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<td>Thomas W. Kaminski, FACSM, University of Delaware, 4:05 p.m.-5:15 p.m.</td>
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<tr>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Tutorial Lecture: Roller Derby: The Sport, the Athletes, the Injuries</td>
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<td>Peter Gerbino, FACSM, 4:05 p.m.-5:15 p.m.</td>
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<tr>
<td>9:00 a.m.-9:50 a.m.</td>
<td>Clinical Workshop-Hands: Osteopathic Evaluation and Treatment of Pelvis and Sacrum in Athletes</td>
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<tr>
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<td>Delmas J. Bolin, FACSM, 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>9:00 a.m.-9:50 a.m.</td>
<td>Clinical Workshop-Hands: Cardiopulmonary III</td>
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<tr>
<td></td>
<td>Mary Lloyd Ireland, FACSM, University of Kentucky Orthopaedic and Sports Medicine, 3:15</td>
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<tr>
<td>9:00 a.m.-9:50 a.m.</td>
<td>Clinical Workshop-Hands: Head Trauma</td>
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<tr>
<td></td>
<td>Garrett S. Hyman, Lake Washington Sports &amp; Spine, 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>9:00 a.m.-9:50 a.m.</td>
<td>Clinical Workshop-Hands: Upper Extremity Issues</td>
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<td>Joseph Ihm, Rehabilitation Institute of Chicago, 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>9:00 a.m.-9:50 a.m.</td>
<td>Tutorial Lecture: Cardiopulmonary Exercise Testing (CPET) Case Study Interpretations</td>
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<td>Kenneth Leclerc, San Antonio Military Medical Center, 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>9:00 a.m.-9:50 a.m.</td>
<td>Tutorial Lecture: Approach to Skin and Nail Trauma in Athletes</td>
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<td>Brian Adams, University of Cincinnati College of Medicine, 3:15 p.m.-4:05 p.m.</td>
</tr>
<tr>
<td>10:10 a.m.-11:00 a.m.</td>
<td>Tutorial Lecture: Cardiopulmonary Exercise Testing (CPET) Case Study Interpretations</td>
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<td>Kenneth Leclerc, San Antonio Military Medical Center, 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>10:10 a.m.-11:00 a.m.</td>
<td>Tutorial Lecture: Sports Concussion: New Techniques in Vestibulo-ocular Rehabilitation</td>
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<td>Lenore Herget, MCI Sports Physical Therapy, Boston, MA., 3:15 p.m.-4:05 p.m.</td>
</tr>
<tr>
<td>10:10 a.m.-11:00 a.m.</td>
<td>Tutorial Lecture: Sports Concussion: New Techniques in Vestibulo-ocular Rehabilitation</td>
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<td>Lenore Herget, MCI Sports Physical Therapy, Boston, MA., 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>10:10 a.m.-11:00 a.m.</td>
<td>Tutorial Lecture: Preparticipation Physical Evaluation Problems</td>
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<td>Alison Brooks, University of Wisconsin, 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>10:10 a.m.-11:00 a.m.</td>
<td>Tutorial Lecture: Knee Examination of the Adult and Pediatric Athlete</td>
</tr>
<tr>
<td></td>
<td>Scott A. Magnes, FACSM, Lovell Federal Health Care Center, 3:15 p.m.-4:05 p.m.</td>
</tr>
<tr>
<td>10:10 a.m.-11:00 a.m.</td>
<td>Tutorial Lecture: Knee Examination of the Adult and Pediatric Athlete</td>
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<td></td>
<td>Jeffrey M. Mjaziewski, FACSM, Rush University Medical Center, 3:15 p.m.-4:05 p.m.</td>
</tr>
<tr>
<td>10:10 a.m.-11:00 a.m.</td>
<td>Tutorial Lecture: Social Media for Sports Medicine Clinicians: Are You Ready to Go Viral?</td>
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<tr>
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<td>Jon Patricios, FACSM, 3:15 p.m.-4:05 p.m.</td>
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</table>
Biomechanics and Neural Control of Movement

Thematic Poster
Landing
Wednesday 9:30 a.m.-11:30 a.m.

Free Communication/Slide
The Science of Concussions
Wednesday 9:30 a.m.-11:30 a.m.

Highlighted Symposium
Mobile Monitoring: Taking our Biomechanical Measures Outside the Laboratory
Wednesday 1:00 p.m.-3:00 p.m.
Irene S. Davis, FACSM, Harvard Medical School
J.J. Troy Crisco, The Warren Alpert Medical School of Brown University and Rhode Island Hospital
Ken Kaufman, Mayo Clinic

Thematic Poster
Walk this Way: Gait Perturbations
Wednesday 3:15 p.m.-5:15 p.m.

Symposium
Assessment of Core Stability in the Laboratory, in the Clinic and on the Field
Thursday 8:00 a.m.-10:00 a.m.
Ajit M.W. Chaudhari, FACSM, The Ohio State University
Brian W. Noehren, University of Kentucky
Chad Asplund, FACSM, Georgia Regents University
James A. Onate, The Ohio State University

Thematic Poster
New Frontiers in Training and Learning
Thursday 8:00 a.m.-10:00 a.m.

Free Communication/Poster
Knee
Thursday 7:30 a.m.-12:30 p.m.

Free Communication/Poster
Foot and Ankle
Thursday 7:30 a.m.-12:30 p.m.

Free Communication/Poster
Sports - Lower Extremity
Thursday 7:30 a.m.-12:30 p.m.

Tutorial Lecture
Variability in Biomechanical Systems
Thursday 1:00 p.m.-3:00 p.m.
D. S. Blaise Williams, Virginia Commonwealth University
Douglas Powell, Campbell University

Free Communication/Slide
Knee Injuries
Thursday 1:00 p.m.-3:00 p.m.

Free Communication/Poster
Sports - Upper Extremity
Thursday 1:00 p.m.-3:00 p.m.

Tutorial Lecture
Humans as Equations: Clinical Applications for Predicting Musculoskeletal Motion
Thursday 2:10 p.m.-3:00 p.m.
Ross H. Miller, University of Maryland

Thematic Poster
Aging Gracefully
Thursday 3:15 p.m.-5:15 p.m.
Rafael F. Escamilla, FACSM, California State University, Sacramento

Thematic Poster
Barefoot/Minimal Footwear Gait
Friday 9:30 a.m.-11:30 a.m.

Free Communication/Poster
Balance
Friday 7:30 a.m.-12:30 p.m.

Free Communication/Poster
Posture
Friday 7:30 a.m.-12:30 p.m.

Free Communication/Slide
Sex Differences in Mechanics: Mars vs. Venus
Friday 1:00 p.m.-3:00 p.m.

Free Communication/Poster
Running
Friday 1:00 p.m.-6:00 p.m.

Free Communication/Poster
Trunk, Hip, Core
Friday 1:00 p.m.-6:00 p.m.

Free Communication/Poster
Walking Gait
Friday 1:00 p.m.-6:00 p.m.

Symposium
Neuromechanical Effects of Anterior Knee Pain during Movement
Friday 3:15 p.m.-3:15 p.m.
Jon T. Hopkins, FACSM, Brigham Young University
Matthew K. Seeley, Brigham Young University
Jihong Park, Kyung Hee University

Thematic Poster
Fatigue
Friday 3:15 p.m.-3:15 p.m.

Tutorial Lecture
Post-Traumatic Knee Osteoarthritis: Structural, Biochemical and Biomechanical Factors
Friday 4:25 p.m.-5:15 p.m.
Brian G. Pietrosimone, University of North Carolina at Chapel Hill
Jeffrey B. Driban, Tufts Medical Center

Tutorial Lecture
The Myth of Motor Unit Types
Saturday 8:00 a.m.-8:50 a.m.
Roger Enoka, University of Colorado

Symposium
Identifying Individual Differences in Running Mechanics to Aid Injury Prevention
Saturday 9:00 a.m.-11:00 a.m.
Joseph Hamill, FACSM, Mechanics to Aid Injury Prevention
Brian Noehren, University of Kentucky
Allison Gruber, University of Massachusetts
Jasper Reenalda, University of Twente

Free Communication/Poster
Aging
Saturday 7:30 a.m.-11:00 a.m.

Free Communication/Poster
Movement Disorders
Saturday 7:30 a.m.-11:00 a.m.

Free Communication/Poster
Squats and Landings
Saturday 7:30 a.m.-11:00 a.m.

Cardiovascular, Renal and Respiratory Physiology

Thematic Poster
Respiratory System and Exercise
Wednesday 9:30 a.m.-11:30 a.m.

Thematic Poster
Vascular Control
Wednesday 9:30 a.m.-11:30 a.m.

Highlighted Symposium
The Pulmonary Physiology of Exercise: Demands and Capacities - An Update
Wednesday 3:00 p.m.-3:00 p.m.
Tory G. Babb, FACSM, Texas Health Presbyterian Hospital Dallas and The University of Texas Southwestern
A. William Sheel, University of British Columbia
Francois Maltais, Quebec Heart & Lung Institute, Laval University
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<th>Time/Date</th>
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<th>Location</th>
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<tr>
<td>Thursday 7:30 a.m.-12:30 p.m.</td>
<td>Symposium: Cardiovascular Responses, Training and Testing</td>
<td>Mark Rakobowchuk, Brunel University Katharine Currie, University of British Columbia Mark J. Haykowsky, University of Alberta Ulrik Wisløff, Norwegian University of Science and Technology</td>
</tr>
<tr>
<td>Thursday 7:30 a.m.-12:30 p.m.</td>
<td>Symposium: Sprinting Towards Changes in the Heart and Blood Vessels</td>
<td>Mark Rakobowchuk, Brunel University Katharine Currie, University of British Columbia Mark J. Haykowsky, University of Alberta Ulrik Wisløff, Norwegian University of Science and Technology</td>
</tr>
<tr>
<td>Thursday 7:30 a.m.-12:30 p.m.</td>
<td>Symposium: New Insights into the Regulation of Human Cerebral Blood Flow</td>
<td>Peter B. Raven, FACSM, University of North Texas Health Science Center Shigeiko Ogo, Toyo University Andrew W. Subudhi, FACSM, University of Colorado, Colorado Springs Niles H. Secher, University of Copenhagen Damian M. Bailey, FACSM, University of Glamorgan</td>
</tr>
<tr>
<td>Thursday 1:00 p.m.-3:00 p.m.</td>
<td>Symposium: Challenges in Autonomic Control in Elite Athletes with a Physical Impairment</td>
<td>Walter R. Thompson, FACSM, International Paralympic Committee Daniel Theisen, Sports Medicine Research Laboratory, Centre de Recherche Public de la Santé Michael F. Berger, FACSM, National Youth Sports Health &amp; Safety Institute; Sanford School of Medicine Andrei Krassioukov, GF Strong Rehabilitation Centre, University of British Columbia</td>
</tr>
<tr>
<td>Friday 7:30 a.m.-12:30 p.m.</td>
<td>Symposium: Multifactorial Role for ATP in Skeletal Muscle Blood Flow during Exercise</td>
<td>Philip S. Clifford, FACSM, University of Illinois at Chicago Marc P. Kaufman, Pennsylvania State University College of Medicine Frank A. Dinenno, Colorado State University Dwayne N. Jackson, University of Western Ontario Heidi A. Kluess, FACSM, Auburn University</td>
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<tr>
<td>Saturday 9:00 a.m.-11:00 a.m.</td>
<td>Symposium: Too Old to Exercise (In Collaboration with Section of Geriatric Cardiology, American College of Cardiology)</td>
<td>Jonathan K. Ehrman, FACSM, Henry Ford Hospital Barry A. Franklin, FACSM, William Beaumont Hospital Daniel E. Forman, Brigham &amp; Women's Hospital Carol Ewing Garber, FACSM, Columbia University Kerry J. Stewart, FACSM, Johns Hopkins School of Medicine</td>
</tr>
<tr>
<td>Saturday 9:00 a.m.-11:00 a.m.</td>
<td>Symposium: Cardiac Rehabilitation: The Past, the Present and the Future</td>
<td>Karen Lu, GRQ, LLC John P. Porcari, FACSM, University of Wisconsin - La Crosse Steven J. Keteyian, FACSM, Henry Ford Hospital Barry A. Franklin, FACSM, William Beaumont Hospital</td>
</tr>
<tr>
<td>Saturday 9:00 a.m.-11:00 a.m.</td>
<td>Symposium: Cardiovascular Responses to Resistance Exercise</td>
<td>Paul J. Fadel, FACSM, University of Missouri</td>
</tr>
<tr>
<td>Saturday 9:00 a.m.-11:00 a.m.</td>
<td>Symposium: Cardiac Rehabilitation: The Past, the Present and the Future</td>
<td>Karen Lu, GRQ, LLC John P. Porcari, FACSM, University of Wisconsin - La Crosse Steven J. Keteyian, FACSM, Henry Ford Hospital Barry A. Franklin, FACSM, William Beaumont Hospital</td>
</tr>
<tr>
<td>Wednesday 1:00 p.m.-6:00 p.m.</td>
<td>Symposium: Exercise Prescription for Diabetes: Case Studies</td>
<td>Sheri R. Colberg, FACSM, Old Dominion University</td>
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<tr>
<td>Event Type</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Exercise Training for Patients with Advanced Heart Failure Treated with a Ventricular Assist Device or a Total Artificial Heart</td>
<td>Wednesday 4:25 p.m.-5:15 p.m.</td>
</tr>
<tr>
<td>Free Communication/Poster</td>
<td>Exercise in Person with Chronic Disease</td>
<td>Thursday 7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Highlighted Symposium</td>
<td>Stress Testing: The Past, the Present and the Future</td>
<td>Thursday 1:00 p.m.-3:00 p.m.</td>
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<tr>
<td>Thematic Poster</td>
<td>Exercise Training in Cardiac Patients</td>
<td>Thursday 1:00 p.m.-3:00 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Pulmonary Disease and Exercise</td>
<td>Thursday 1:00 p.m.-4:00 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Exercise, Diabetes, and Glucose</td>
<td>Thursday 1:00 p.m.-6:00 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Clinical Aspects of Exercise in Children</td>
<td>Friday 7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Hypertension and Locomotion</td>
<td>Friday 7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Tutorial Lecture</td>
<td>The Development of a Registry for Cardiorespiratory Fitness to the US</td>
<td>Friday 10:40 a.m.-11:30 a.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Clinical Applications of High-Intensity Interval Training</td>
<td>Friday 1:00 p.m.-2:45 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Obesity and Body Composition</td>
<td>Friday 1:00 p.m.-6:00 p.m.</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Case Studies - CPX</td>
<td>Friday 2:10 p.m.-3:00 p.m.</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Evaluating the Risk in Exercise Testing and Training</td>
<td>Saturday 8:00 a.m.-8:50 a.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Clinical Exercise</td>
<td>Saturday 7:30 a.m.-12:00 a.m.</td>
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<tr>
<td>Environmental and Occupational Physiology</td>
<td>Tutorial Lecture</td>
<td>The Skin as a Model Circulation</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Heat Stress</td>
<td>Wednesday 1:00 p.m.-6:00 p.m.</td>
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<tr>
<td>Symposium</td>
<td>The Pulmonary System at Sea Level and at Altitude: Implications for the Exercising Human</td>
<td>Wednesday 3:15 p.m.-5:15 p.m.</td>
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<tr>
<td>Thematic Poster</td>
<td>Hydration Assessment</td>
<td>Wednesday 3:15 p.m.-5:15 p.m.</td>
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<tr>
<td>Elnworth R. Buskirk</td>
<td>VO2 Max: From Measurement to Application in Performance, Fitness and Disease Prevention</td>
<td>Thursday 8:00 a.m.-8:50 a.m.</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Sweating: Variation, Composition and Adaptation</td>
<td>Thursday 8:00 a.m.-9:15 a.m.</td>
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<tr>
<td>Free Communication/Slide</td>
<td>Hypoxia and Altitude Exposure</td>
<td>Thursday 7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Microgravity and Dive Physiology</td>
<td>Thursday 7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Fluid Intake and Hydration Assessment</td>
<td>Thursday 1:00 p.m.-4:00 p.m.</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Cold Medicine - Lessons from Antarctica</td>
<td>Thursday 3:15 p.m.-4:05 p.m.</td>
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<tr>
<td>Symposium</td>
<td>Recent Progress in the Understanding of Exertional Heat Stroke</td>
<td>Friday 9:30 a.m.-11:30 a.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Sleep Deprivation and Thermoregulation</td>
<td>Friday 7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Cold Exposure and Cooling</td>
<td>Friday 7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Military Physiology</td>
<td>Friday 7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Lessons in Heat Stroke from Saudi Arabia</td>
<td>Friday 1:00 p.m.-1:50 p.m.</td>
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<tr>
<td>Symposium</td>
<td>Hypohydration and Exercise Performance: New Data on the Effect of Mild Hypohydration</td>
<td>Friday 3:15 p.m.-5:15 p.m.</td>
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<td>Time</td>
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<tr>
<td>Saturday 8:00 a.m.</td>
<td>Tutorial Lecture: Felix Baumgartner: Barotrauma, Aerodynamics, and Physiology</td>
<td>James A. Pavelczyk, FACSM, Noll Physiological Research Center</td>
</tr>
<tr>
<td>Saturday 9:00 a.m.</td>
<td>Highlighted Symposium: Cellular Basis of Heat Stroke and Heat Injury</td>
<td>Robert W. Kenefick, FACSM, U.S. Army Research Institute of Environmental Medicine Thomas L. Clarion, University of Florida David C. Clarke, Simon Fraser University, Burnaby</td>
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<tr>
<td>Saturday 9:00 a.m.</td>
<td>Thematic Poster: Cognitive Function in Environmental Extremes</td>
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<tr>
<td>Saturday 7:30 a.m.</td>
<td>Free Communication/Poster: Occupational and Environmental Physiology</td>
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**Epidemiology and Biostatistics**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>Wednesday 9:30 a.m.</td>
<td>Tutorial Lecture: Health and Fitness App Use, Evaluation and Opportunities</td>
<td>Carol Torgan, FACSM, Kinetics Heather Chambliss, FACSM, University of Memphis</td>
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<tr>
<td>Wednesday 7:30 a.m.</td>
<td>Free Communication/Poster: Physical Activity Interventions in Adults</td>
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<tr>
<td>Wednesday 7:30 a.m.</td>
<td>Free Communication/Poster: Physical Activity Assessment in Older Adults</td>
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<tr>
<td>Wednesday 10:40 a.m.</td>
<td>Paffenbarger Tutorial Lecture: On Steps, Stairs, Sport and Sitting: Impacts on Health Across the Adult Lifespan</td>
<td>Wendy J. Brown, FACSM, University of Queensland</td>
</tr>
<tr>
<td>Wednesday 1:00 p.m.</td>
<td>Symposium: Creating a Generation of Fit Youth: New Advances</td>
<td>Greg S. Welk, FACSM, Iowa State University Melinda Millard-Staafford, FACSM, Georgia Institute of Technology Russell R. Pate, FACSM, University of South Carolina Sarah M. Lee, Centers for Disease Control &amp; Prevention James R. Morrow, FACSM, University of North Texas</td>
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<tr>
<td>Wednesday 1:00 p.m.</td>
<td>Free Communication/Poster: Physical Activity Interventions in Older Populations</td>
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<tr>
<td>Wednesday 1:00 p.m.</td>
<td>Free Communication/Poster: Physical Activity Interventions in Youth</td>
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<tr>
<td>Wednesday 2:10 p.m.</td>
<td>Colloquium: Towards Standardization of Physical Activity and Sedentary Behavior Measures from Wearable Accelerometers</td>
<td>Patty S. Freedson, FACSM, University of Massachusetts Department of Kinesiology David R. Bassett, FACSM, University of Tennessee</td>
</tr>
<tr>
<td>Wednesday 3:15 p.m.</td>
<td>Highlighted Symposium: If You're Going to Talk the Talk, You've Got to Walk the Walk!</td>
<td>Janet E. Fulton, FACSM, US Centers for Disease Control and Prevention Joan Dore, Centers for Disease Control and Prevention Robert E. Sallis, FACSM, Kaiser Permanente Medical Center</td>
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<tr>
<td>Wednesday 3:15 p.m.</td>
<td>Thematic Poster: Physical Activity Interventions in Adults</td>
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<tr>
<td>Wednesday 3:15 p.m.</td>
<td>Thematic Poster: Population-based Surveillance</td>
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<td>Thursday 8:00 a.m.</td>
<td>Free Communication/Poster: Pregnancy</td>
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<tr>
<td>Thursday 1:00 p.m.</td>
<td>Tutorial Lecture: Obesity is NOT a Disease… or Is It?</td>
<td>Timothy S. Church, Pennington Biomedical Research Center Peter T. Karmarzyk, FACSM, Pennington Biomedical Research Center</td>
</tr>
<tr>
<td>Thursday 1:00 p.m.</td>
<td>Free Communication/Poster: Physical Activity Assessment in Youth</td>
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<tr>
<td>Thursday 3:15 p.m.</td>
<td>Tutorial Lecture: New Insights into Physical Activity and Cancer Prevention</td>
<td>Alpa V. Patel, American Cancer Society Charles E. Matthews, FACSM, National Cancer Institute Steven C. Moore, National Cancer Institute</td>
</tr>
<tr>
<td>Friday 7:30 a.m.</td>
<td>Free Communication/Poster: Population Based Surveillance</td>
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<tr>
<td>Friday 1:00 p.m.</td>
<td>Tutorial Lecture: Epidemiology of American Football from Youth, High School and College: 2012-2014</td>
<td>Thomas P. Dompier, Datalys Center for Sports Injury Research and Prevention David Klossner, National Collegiate Athletic Association Sport Science Institute</td>
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<tr>
<td>Friday 1:00 p.m.</td>
<td>Free Communication/Slide: Advancing Physical Activity Assessment Methods - Part 2</td>
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<tr>
<td>Friday 1:00 p.m.</td>
<td>Free Communication/Slide: Oh Baby! Physical Activity and Pregnancy</td>
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<td>Friday 1:00 p.m.</td>
<td>Free Communication/Poster: Injury Epidemiology</td>
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<td>Friday 1:00 p.m.</td>
<td>Free Communication/Poster: Epidemiology of Physical Activity and Health in Adults</td>
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<tr>
<td>Saturday 7:30 a.m.</td>
<td>Free Communication/Poster: Biostatistics/Research Methodology</td>
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<tr>
<td>Session</td>
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<tr>
<td>Tuesday</td>
<td>Physical Activity to Prevent Major Mobility Disability: The Primary Results of the LIFE Study</td>
<td>1:00 p.m.-1:45 p.m.</td>
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<tr>
<td>Tuesday</td>
<td>EIM® Goes Global: Educating Healthcare Professionals about Exercise Prescription</td>
<td>2:00 p.m.-4:00 p.m.</td>
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<tr>
<td>Tuesday</td>
<td>Obesity is now a Disease: Is the Best Treatment Exercise or Weight Loss</td>
<td>2:00 p.m.-4:00 p.m.</td>
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<tr>
<td>Tuesday</td>
<td>The Affordable Care Act and Impact on Exercise is Medicine®</td>
<td>2:00 p.m.-2:50 p.m.</td>
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<td>Tuesday</td>
<td>Exercise and the Aging Brain</td>
<td>4:15 p.m.-5:05 p.m.</td>
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<td>Tuesday</td>
<td>LiVe Well: Lifestyle and Weight Management at Intermountain Healthcare</td>
<td>4:15 p.m.-5:05 p.m.</td>
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<td>Tuesday</td>
<td>Industrialising Physical Activity: Time to Act Big</td>
<td>5:15 p.m.-6:00 p.m.</td>
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<tr>
<td>Wednesday</td>
<td>At the Crux of the (EIM®) Matter: An Update on the Effectiveness of Physical Activity Counseling</td>
<td>9:30 a.m.-11:30 a.m.</td>
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<td>Wednesday</td>
<td>Now or Later: Mid-Life Behavior and Later Life Health</td>
<td>9:30 a.m.-11:30 a.m.</td>
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<td>Wednesday</td>
<td>Exercise is Medicine® 101</td>
<td>9:30 a.m.-10:20 a.m.</td>
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<tr>
<td>Wednesday</td>
<td>EIM Across the Lifespan</td>
<td>7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Wednesday</td>
<td>Physical Activity for the Treatment of Depression</td>
<td>10:40 a.m.-11:30 a.m.</td>
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<tr>
<td>Wednesday</td>
<td>Implementing Exercise is Medicine® Through Clinical Exercise Physiologists</td>
<td>1:00 p.m.-3:00 p.m.</td>
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</tbody>
</table>
Exercise is Medicine® - Symposium
Title: Update on Integrating Exercise is Medicine® into Medical School Curricula: Opportunities and Challenges
Speaker: Jennifer L. Trik, University of South Carolina School of Medicine Greenville
Location: University of South Carolina
Date: Wednesday 1:00 p.m.-3:00 p.m.

Exercise is Medicine® - Colloquium
Title: Group Health Walk and Talk with Your Health Care Team - The Power of Community Involvement
Speaker: Jessie Fudge, Group Health Cooperative
Location: Pennsylvania
Date: Wednesday 1:00 p.m.-1:50 p.m.

Exercise is Medicine®/Poster
Title: EIM: Cardiometabolic Problems
Speaker: Angela Smith, FACSM, University of Pennsylvania
Location: Pennsylvania
Date: Wednesday 3:15 p.m.-5:15 p.m.

Exercise is Medicine® - Tutorial Lecture
Title: Exercise is Medicine®: A Field Guide for Physicians, Fitness Trainers, and Researchers
Speaker: Madeline Bayles, Indiana University of Pennsylvania
Location: Pennsylvania
Date: Wednesday 3:15 p.m.-4:05 p.m.

Exercise is Medicine® - Tutorial Lecture
Title: Exercise is Medicine® in Children: Connecting Community and Clinical Practice
Speaker: Madeline Bayles, Indiana University of Pennsylvania
Location: Pennsylvania
Date: Wednesday 3:15 p.m.-5:15 p.m.

Exercise is Medicine® - Symposium
Title: Examples of Innovative Implementation of Exercise is Medicine® on Campus and Launch of University Recognition Program
Speaker: Madeline Bayles, Indiana University of Pennsylvania
Location: Pennsylvania
Date: Thursday 8:00 a.m.-10:00 a.m.

Exercise is Medicine® - Symposium
Title: Putting EIM® into Practice Around the World
Speaker: Fatima Cody Stanford, Massachusetts General Hospital/Harvard Medical School
Location: Pennsylvania
Date: Thursday 8:00 a.m.-10:00 a.m.

Free Communication/Poster
Title: EIM and Cancer
Speaker: Richard Visser, Ministry of Health, Welfare and Sport Government of Aruba
Location: Pennsylvania
Date: Thursday 7:30 a.m.-12:30 p.m.

Free Communication/Poster
Title: EIM: Cardiovascular System and Obstructive Sleep Apnea
Speaker: John D. Duplcy, University of Los Andes Olympic Committee
Location: Pennsylvania
Date: Thursday 7:30 a.m.-12:30 p.m.

Free Communication/Poster
Title: Physical Activity Habits of Physicians and Medical Students
Speaker: Fatima Cody Stanford, Massachusetts General Hospital/Harvard Medical School
Location: Pennsylvania
Date: Thursday 9:10 a.m.-10:00 a.m.

Thematic Poster
Title: Clinical Applications of EIM
Speaker: Fatima Cody Stanford, Massachusetts General Hospital/Harvard Medical School
Location: Pennsylvania
Date: Thursday 1:00 p.m.-3:00 p.m.

Fitness Assessment, Exercise Training, and Performance of Athletes and Healthy People

Free Communication/Poster
Title: Characterizing the Competitive Athlete
Speaker: Randall L. Wilber, FACSM, United States Olympic Committee
Location: Pennsylvania
Date: Wednesday 7:30 a.m.-12:30 p.m.

Free Communication/Poster
Title: Non-traditional Sports
Speaker: Robert F. Chapman, FACSM, Indiana University USA Track and Field
Location: Pennsylvania
Date: Wednesday 7:30 a.m.-12:30 p.m.

Free Communication/Poster
Title: The Tactical Athlete
Speaker: John D. Duplcy, University of Los Andes Olympic Committee
Location: Pennsylvania
Date: Wednesday 7:30 a.m.-12:30 p.m.

Symposium
Title: Unique Case Studies: Olympic Champions and the Impact of Sport Science on Performance
Speaker: Randall L. Wilber, FACSM, United States Olympic Committee
Location: Pennsylvania
Date: Wednesday 3:15 p.m.-5:15 p.m.

Thematic Poster
Title: High Intensity Training
Speaker: Monica Hubal, FACSM, Children’s National Medical Center
Location: Pennsylvania
Date: Wednesday 3:15 p.m.-5:15 p.m.

Highlighted Symposium
Title: Maximizing Exercise Performance across the Lifespan
Speaker: Monica Hubal, FACSM, Children’s National Medical Center
Location: Pennsylvania
Date: Thursday 8:00 a.m.-10:00 a.m.
Free Communication/Poster  Recovery Thursday  7:30 a.m.-12:30 p.m. John M. Mayer, University of South Florida John D. Childs, U.S. Army-Baylor University Doctoral Program in Physical Therapy William S. Quillen, FACSM, University of South Florida School of Physical Therapy & Rehabilitation Sciences

Free Communication/Slide  Fitness and Testing in Special Populations Thursday  1:00 p.m.-3:00 p.m. John M. Mayer, University of South Florida John D. Childs, U.S. Army-Baylor University Doctoral Program in Physical Therapy William S. Quillen, FACSM, University of South Florida School of Physical Therapy & Rehabilitation Sciences

Thematic Poster  Assessment and Training in Older Adults Thursday  3:15 p.m.-5:15 p.m.

Free Communication/Slide  Fitness/Performance Testing Thursday  3:15 p.m.-5:15 p.m.

Free Communication/Poster  Body Composition Friday  7:30 a.m.-12:30 p.m. Michael J. Joyner, FACSM, Mayo Clinic Sandra Hunter, FACSM, Marquette University Andrew Jones, FACSM, University of Exeter Alejandro Lucia, Universidad Europea de Madrid

Free Communication/Poster  Fitness and the Environment Friday  7:30 a.m.-12:30 p.m. Michael J. Joyner, FACSM, Mayo Clinic Sandra Hunter, FACSM, Marquette University Andrew Jones, FACSM, University of Exeter Alejandro Lucia, Universidad Europea de Madrid

Free Communication/Poster  Motor Control Friday  7:30 a.m.-12:30 p.m. Michael J. Joyner, FACSM, Mayo Clinic Sandra Hunter, FACSM, Marquette University Andrew Jones, FACSM, University of Exeter Alejandro Lucia, Universidad Europea de Madrid

Symposium  The 2 Hour Marathon and Human Performance Friday  7:30 a.m.-12:30 p.m. Michael J. Joyner, FACSM, Mayo Clinic Sandra Hunter, FACSM, Marquette University Andrew Jones, FACSM, University of Exeter Alejandro Lucia, Universidad Europea de Madrid

Free Communication/Slide  Running Economy/Cost Friday  1:00 p.m.-3:00 p.m. Karin A. Pfeiffer, FACSM, Michigan State University Rebecca A. Battista, Appalachian State University Dawn P. Coe, FACSM, University of Tennessee Leah Robinson, Auburn University Megan Holmes, Mississippi State University

Free Communication/Poster  Strength Testing Friday  1:00 p.m.-6:00 p.m.

Free Communication/Poster  Fitness Assessment Friday  1:00 p.m.-6:00 p.m.

Free Communication/Poster  Novel Methods of Performance Assessment Friday  1:00 p.m.-6:00 p.m.

Symposium  The Power of Play: Influences on Motor Development, Physical Activity, and Sport Friday  1:00 p.m.-6:00 p.m. Karin A. Pfeiffer, FACSM, Michigan State University Rebecca A. Battista, Appalachian State University Dawn P. Coe, FACSM, University of Tennessee Leah Robinson, Auburn University Megan Holmes, Mississippi State University

Colloquium  Physiology of Middle- and Long-Distance Running: A UK Perspective Friday  1:00 p.m.-4:05 p.m. Steve Ingham, English Institute of Sport Barry Fudge, English Institute of Sport

Thematic Poster  Elite Athletes Friday  3:15 p.m.-5:15 p.m.

Colloquium  Exploring the Crossfit Debate Saturday  8:00 a.m.-8:50 a.m. Irene S. Davis, FACSM, Harvard Medical School Yuri Fetto, Kennesaw State University Michael R. Esco, Auburn University at Montgomery

Symposium  SOCHI 2014: Sports Medicine Challenges, Strategies and Solutions Saturday  9:00 a.m.-12:00 a.m. Mango Mountjoy, FACSM, McMaster University Medical School Alexey Peskov, Sochi 2014 Organizing Committee Paul Piccirinni, IOC Medical Commission Dan Beaudart, FACSM, Georgia State University Randall L. Wilber, FACSM, US Olympic Committee

Thematic Poster  Fitness Assessment and Training in Young Athletes Saturday  9:00 a.m.-12:00 a.m.

Free Communication/Slide  Enhancing Performance through Training Interventions Saturday  9:00 a.m.-12:00 a.m.

Free Communication/Poster  Cycling Saturday  7:30 a.m.-11:00 a.m.

Free Communication/Poster  Aquatics Saturday  7:30 a.m.-11:00 a.m.

Free Communication/Poster  Running Performance: Assessment, Training, and Interventions Saturday  7:30 a.m.-11:00 a.m.

Free Communication/Poster  Soccer Saturday  7:30 a.m.-11:00 a.m.

**Immunology/Genetics/Endocrinology**

Thematic Poster  Endocrine Reproductive Wednesday  9:30 a.m.-11:30 a.m.

Free Communication/Poster  Immunology-Supplements Wednesday  7:30 a.m.-12:30 p.m.

Tutorial Lecture  Molecules to Man: A Beginners Guide to the ‘Omics’ Universe Wednesday  10:40 a.m.-11:30 a.m. Monica Hubal, FACSM, Children’s National Medical Center

Free Communication/Poster  Genetics Wednesday  1:00 p.m.-6:00 p.m.

Symposium  The Chronobiology of Obesity and Metabolic Syndrome: Implications for Exercise is Medicine® Wednesday  3:15 p.m.-5:15 p.m. Eric Hoffman, George Washington University School of Medicine and Health Sciences, Children’s National Medical Center Kenneth Stoney, Carleton University David A. Hood, FACSM, York University Susanna Hofmann, Institute of Diabetes and Regeneration, Helmholtz Zentrum München
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<th>Event Type</th>
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<th>Day</th>
<th>Time</th>
<th>Presenters</th>
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</table>
| **Highlighted Symposium**      | Is it Because of my Genes that my Jeans Don’t Fit: Integrating the ‘-omics’ to Understand the Control of Activity and Weight | Thursday | 7:30 a.m.-12:30 p.m.| J. Timothy Lightfoot, FACSM, Texas A&M University  
Linda S. Pescatello, FACSM, University of Connecticut  
Molly S. Bray, University of Alabama  
Mark A. Szarynski, Pennington Biomedical Research Center |
| **Free Communication/Slide**   | Genetics                                                             | Friday   | 9:30 a.m.-11:30 a.m.|                                                                          |
| **Colloquium**                 | Are Hormones Really Performance Enhancers?                           | Friday   | 10:40 a.m.-11:30 a.m.| Kathryn E. Ackerman, Boston Children’s Hospital  
Susan Carter, FACSM,  
University of Connecticut |
| **Symposium**                 | Applications of Microdialysis within Exercise Paradigms              | Friday   | 3:00 p.m.-3:00 p.m.  | Robert C. Hickner, FACSM, East Carolina University  
Lacy M. Alexander, FACSM,  
Penn State University  
Bradley C. Nindl, FACSM, Army Public Health Command  
Henning Lungberg, University of Copenhagen  
Joseph R. Pierce, East Carolina University |
| **Thematic Poster**           | Immunology                                                            | Friday   | 1:00 p.m.-3:00 p.m.  |                                                                          |
| **Tutorial Lecture**          | The Interplay Between Incretins and Glucose Homeostasis: Effect of Meal Ingestion and Exercise | Friday   | 2:10 p.m.-3:00 p.m.  | Francesca Amati, University of Lausanne  
Jill A. Kanaley, FACSM, University of Missouri |
| **Symposium**                 | Genomics and other OMICS and Elite Sport                             | Saturday | 9:00 a.m.-11:00 a.m. | Claude Bouchard, FACSM, Pennington Biomedical Research Center  
Tuomo Rankinen, FACSM, Pennington Biomedical Research Center  
Stephen M. Roth, FACSM, University of Maryland  
Yannis P. Pitsiladis, FACSM, University of Glasgow |
| **Free Communication/Poster** | Immunology                                                            | Saturday | 7:30 a.m.-11:00 a.m. |                                                                          |
| **Metabolism and Nutrition**  | Regulation of Skeletal Muscle Proteolysis: Why Should We Care?       | Wednesday| 9:30 a.m.-10:20 a.m. | Nancy R. Rodriguez, FACSM, University of Connecticut  
Maria L. Urso, FACSM, Artericyte |
| **Free Communication/Slide**   | Appetite Regulation, Dietary Compensation and Predictors of Weight Change | Wednesday| 9:30 a.m.-11:15 a.m. |                                                                          |
| **Free Communication/Poster** | Amino Acid Intake, Exercise and Protein Metabolism                   | Wednesday| 7:30 a.m.-12:30 p.m. |                                                                          |
| **Free Communication/Poster** | Oxygen Uptake Kinetics                                               | Wednesday| 7:30 a.m.-12:30 p.m. |                                                                          |
| **Free Communication/Poster** | Protein Metabolism: Intact Protein Intake, Exercise, and Protein Utilization | Wednesday| 7:30 a.m.-12:30 p.m. |                                                                          |
| **Tutorial Lecture**          | One Pill Makes You Larger and One Pill Makes You Small…             | Wednesday| 1:00 p.m.-1:50 p.m.  | Eric S. Rawson, FACSM, Bloomsburg University |
| **Free Communication/Slide**   | Dietary Nitrate, Beet Juice and Nitric Oxide                         | Wednesday| 1:00 p.m.-3:00 p.m.  |                                                                          |
| **Free Communication/Poster** | Carbohydrate Metabolism: Carbohydrate Intake and Performance         | Wednesday| 1:00 p.m.-6:00 p.m.  |                                                                          |
| **Free Communication/Poster** | Carbohydrate Metabolism: Effects of Diet and Exercise                | Wednesday| 1:00 p.m.-6:00 p.m.  |                                                                          |
| **Tutorial Lecture**          | If Obesity is a Disease are there Effective Treatments?              | Wednesday| 3:15 p.m.-4:05 p.m.  | John M. Jakicic, FACSM, University of Pittsburgh |
| **Symposium**                 | The Science of Energy Balance: A Model for Weight Management Intervention | Thursday | 8:00 a.m.-10:00 a.m. | Steven N. Blair, FACSM, University of South Carolina  
James Hill, University of Colorado  
Joseph E. Donnelly, FACSM, University of Kansas Medical Center  
Gregory A. Hand, FACSM, University of South Carolina  
John M. Jakicic, FACSM, University of Pittsburgh |
| **Thematic Poster**           | Reduction of Metabolic Syndrome and Chronic Disease                  | Thursday | 8:00 a.m.-10:00 a.m. |                                                                          |
| **Free Communication/Poster** | Diet and Exercise Interventions                                     | Thursday | 7:30 a.m.-12:30 p.m. |                                                                          |
| **Free Communication/Poster** | Sports Nutrition, Dietary and Fluid Intake                           | Thursday | 7:30 a.m.-12:30 p.m. |                                                                          |
| **Highlighted Symposium**      | Caloric Restriction and Fasting: Implications for Health, Weight Management and Performance | Thursday | 1:00 p.m.-3:00 p.m.  | Melinda Manore, FACSM, Oregon State University  
Nancy R. Rodriguez, FACSM, University of Connecticut  
Eric Ravussin, Pennington Biomedical Research Center |
<p>| <strong>Thematic Poster</strong>           | Diet, Exercise and Dyslipidemia                                      | Thursday | 1:00 p.m.-3:00 p.m.  |                                                                          |
| <strong>Free Communication/Poster</strong> | Dietary Supplements: Vitamin D and Omega-3 Fatty Acids               | Thursday | 1:00 p.m.-4:00 p.m.  |                                                                          |
| <strong>Free Communication/Poster</strong> | Drugs and Ergogenic Aids                                             | Thursday | 1:00 p.m.-6:00 p.m.  |                                                                          |
| <strong>Thematic Poster</strong>           | Endurance and Ultraendurance Athletes                               | Thursday | 3:15 p.m.-5:15 p.m.  |                                                                          |</p>
<table>
<thead>
<tr>
<th>Event Type</th>
<th>Title</th>
<th>Date</th>
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<th>Speaker(s)</th>
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<tbody>
<tr>
<td>Tutorial Lecture</td>
<td>Treatment of Low Energy Availability in Female Athletes</td>
<td>Thursday</td>
<td>4:25 p.m.-5:15 p.m.</td>
<td>Anne B. Loucks, FACSM, Ohio University&lt;br&gt;Louise M. Burke, FACSM, Australian Institute of Sport</td>
</tr>
<tr>
<td>Symposium</td>
<td>Treating Obesity: Surgery, Exercise, or Both?</td>
<td>Friday</td>
<td>9:30 a.m.-11:30 a.m.</td>
<td>Tim Gavin, FACSM, Purdue University&lt;br&gt;Walter Pories, East Carolina University&lt;br&gt;G Lynn Dohm, East Carolina University&lt;br&gt;I Joe Houmard, FACSM, East Carolina University&lt;br&gt;Bret H. Goodpaster, FACSM, Florida Hospital•Sanford Burnham Translational Research Institute</td>
</tr>
<tr>
<td>Tutorial Lecture</td>
<td>Periodizing Carbohydrate Availability for Adaptation and Performance</td>
<td>Friday</td>
<td>9:30 a.m.-10:20 a.m.</td>
<td>John A. Havley, Australian Catholic University&lt;br&gt;Louise M. Burke, FACSM, Australian Institute of Sport</td>
</tr>
<tr>
<td>Free Communication/Poster</td>
<td>Energy Metabolism, Weight Control and Body Composition</td>
<td>Friday</td>
<td>7:30 a.m.-12:30 p.m.</td>
<td>John P. Thyfault, FACSM, University of Missouri&lt;br&gt;Steve Britton, University of Michigan&lt;br&gt;Frank W. Booth, FACSM, FACSM, University of Missouri&lt;br&gt;R. Scott Rector, JSTMVIA Hospital and Development&lt;br&gt;University of Missouri&lt;br&gt;Barry Levin, VA Medical Center and New Jersey Medical School</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Fat Metabolism: Exercise, Diet Interventions, and Nutrient Supplementation</td>
<td>Friday</td>
<td>7:30 a.m.-12:30 p.m.</td>
<td>Matthew Fedoruk, US Anti-Doping Agency</td>
</tr>
<tr>
<td>Tutorial Lecture</td>
<td>New Frontiers against Doping in Sport: Challenging the Omertà</td>
<td>Friday</td>
<td>1:00 p.m.-3:50 p.m.</td>
<td>John P. Thyfault, FACSM, University of Missouri&lt;br&gt;Steve Britton, University of Michigan&lt;br&gt;Frank W. Booth, FACSM, FACSM, University of Missouri&lt;br&gt;R. Scott Rector, JSTMVIA Hospital and Development&lt;br&gt;University of Missouri&lt;br&gt;Barry Levin, VA Medical Center and New Jersey Medical School</td>
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<td>Thematic Poster</td>
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<td>Friday</td>
<td>1:00 p.m.-3:00 p.m.</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Antioxidants, Anti-inflammatory and Herbal Supplements</td>
<td>Friday</td>
<td>1:00 p.m.-6:00 p.m.</td>
<td>John P. Thyfault, FACSM, University of Missouri&lt;br&gt;Steve Britton, University of Michigan&lt;br&gt;Frank W. Booth, FACSM, FACSM, University of Missouri&lt;br&gt;R. Scott Rector, JSTMVIA Hospital and Development&lt;br&gt;University of Missouri&lt;br&gt;Barry Levin, VA Medical Center and New Jersey Medical School</td>
</tr>
<tr>
<td>Free Communication/Poster</td>
<td>Caffeine and Energy Drinks</td>
<td>Friday</td>
<td>1:00 p.m.-6:00 p.m.</td>
<td>John P. Thyfault, FACSM, University of Missouri&lt;br&gt;Steve Britton, University of Michigan&lt;br&gt;Frank W. Booth, FACSM, FACSM, University of Missouri&lt;br&gt;R. Scott Rector, JSTMVIA Hospital and Development&lt;br&gt;University of Missouri&lt;br&gt;Barry Levin, VA Medical Center and New Jersey Medical School</td>
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<tr>
<td>Symposium</td>
<td>Novel Polygenic Animal Models for the Study of Physical Activity/Fitness and Disease</td>
<td>Friday</td>
<td>3:15 p.m.-5:15 p.m.</td>
<td>Alan C. Utter, FACSM, Appalachian State University&lt;br&gt;Laura Guidetti, FACSM, University of Rome&lt;br&gt;Silvia Migliaccio, University of Foro Italico&lt;br&gt;Lorenzo M. Donini, University Sapienza&lt;br&gt;Gian P. Emerenziani, University of Foro Italico</td>
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<tr>
<td>Symposium</td>
<td>Sarcopenic Obesity: A New Reality In The Aging Population. An Integrated Approach</td>
<td>Friday</td>
<td>3:15 p.m.-5:15 p.m.</td>
<td>Alan C. Utter, FACSM, Appalachian State University&lt;br&gt;Laura Guidetti, FACSM, University of Rome&lt;br&gt;Silvia Migliaccio, University of Foro Italico&lt;br&gt;Lorenzo M. Donini, University Sapienza&lt;br&gt;Gian P. Emerenziani, University of Foro Italico</td>
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<tr>
<td>Thematic Poster</td>
<td>Energy Balance: Expenditure, Diet Quality and Weight Control</td>
<td>Friday</td>
<td>3:15 p.m.-5:30 p.m.</td>
<td>Nanna L. Meyer, FACSM, University of Colorado</td>
</tr>
<tr>
<td>Tutorial Lecture</td>
<td>Sustainable Food Systems and Healthy Lifestyles: An Introduction</td>
<td>Saturday</td>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Nanna L. Meyer, FACSM, University of Colorado</td>
</tr>
<tr>
<td>Symposium</td>
<td>Continuous Glucose Monitoring in Exercise Science Research</td>
<td>Saturday</td>
<td>9:00 a.m.-11:00 a.m.</td>
<td>John Thyfault, FACSM, University of Missouri&lt;br&gt;Luc J.C. van Loon, Maastricht University Medical Centre&lt;br&gt;Jonathan P. Little, University of British Columbia&lt;br&gt;Barry Braun, FACSM, UMass Amherst</td>
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**Physical Activity/Health Promotion Interventions**

<table>
<thead>
<tr>
<th>Event Type</th>
<th>Title</th>
<th>Date</th>
<th>Time</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>Symposium</td>
<td>Move to Learn! Physical Activity and Academic Achievement</td>
<td>Wednesday</td>
<td>9:30 a.m.-11:30 a.m.</td>
<td>Carol Ewing Garber, FACSM, Columbia University&lt;br&gt;Charles H. Hillman, University of Illinois&lt;br&gt;Sarah M. Lee, Centers for Disease Control &amp; Prevention&lt;br&gt;Barbara D. Castelli, University of Texas at Austin&lt;br&gt;Alessis Glick, GENYouth Foundation</td>
</tr>
<tr>
<td>Thematic Poster</td>
<td>Advances in Epidemiology: Objective Monitoring</td>
<td>Wednesday</td>
<td>1:00 p.m.-3:00 p.m.</td>
<td>Barbara D. Castelli, University of Texas at Austin&lt;br&gt;Alessis Glick, GENYouth Foundation</td>
</tr>
<tr>
<td>Thematic Poster</td>
<td>International Perspective in Physical Activity in Older Adults</td>
<td>Wednesday</td>
<td>1:00 p.m.-3:00 p.m.</td>
<td>Barbara D. Castelli, University of Texas at Austin&lt;br&gt;Alessis Glick, GENYouth Foundation</td>
</tr>
<tr>
<td>Free Communication/Slide</td>
<td>Physical Activity Interventions in Older Adults</td>
<td>Wednesday</td>
<td>1:00 p.m.-2:30 p.m.</td>
<td>Barbara D. Castelli, University of Texas at Austin&lt;br&gt;Alessis Glick, GENYouth Foundation</td>
</tr>
<tr>
<td>Free Communication/Poster</td>
<td>Physical Activity Promotion Programming/Intervention Strategies in Older Adults</td>
<td>Wednesday</td>
<td>1:00 p.m.-6:00 p.m.</td>
<td>Barbara D. Castelli, University of Texas at Austin&lt;br&gt;Alessis Glick, GENYouth Foundation</td>
</tr>
<tr>
<td>Colloquium</td>
<td>Benefits of Physical Activity Beyond Health: How to Market Physical Activity to non-Health Organizations</td>
<td>Thursday</td>
<td>8:00 a.m.-8:50 a.m.</td>
<td>Barbara D. Castelli, University of Texas at Austin&lt;br&gt;Alessis Glick, GENYouth Foundation</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Physical Activity Promotion Programming in Adults</td>
<td>Thursday</td>
<td>7:30 a.m.-12:30 p.m.</td>
<td>Barbara D. Castelli, University of Texas at Austin&lt;br&gt;Alessis Glick, GENYouth Foundation</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Walk More, Sit Less, or Exercise- What is Important for Health</td>
<td>Thursday</td>
<td>9:10 a.m.-10:00 a.m.</td>
<td>Charles Matthews, FACSM, National Institutes of Health&lt;br&gt;Catrine Tudor-Locke, FACSM, Pennington Biomedical Research Center</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Intervention Strategies in Adults</td>
<td>Thursday</td>
<td>1:00 p.m.-6:00 p.m.</td>
<td>Charles Matthews, FACSM, National Institutes of Health&lt;br&gt;Catrine Tudor-Locke, FACSM, Pennington Biomedical Research Center</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Physical Activity Promotion Programming/Intervention Strategies in Youth</td>
<td>Thursday</td>
<td>1:00 p.m.-6:00 p.m.</td>
<td>Charles Matthews, FACSM, National Institutes of Health&lt;br&gt;Catrine Tudor-Locke, FACSM, Pennington Biomedical Research Center</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Cancer</td>
<td>Thursday</td>
<td>1:00 p.m.-6:00 p.m.</td>
<td>Charles Matthews, FACSM, National Institutes of Health&lt;br&gt;Catrine Tudor-Locke, FACSM, Pennington Biomedical Research Center</td>
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<tr>
<td>Thematic Poster</td>
<td>Physical Activity Interventions: Novel Strategies</td>
<td>Thursday</td>
<td>3:15 p.m.-5:15 p.m.</td>
<td>Charles Matthews, FACSM, National Institutes of Health&lt;br&gt;Catrine Tudor-Locke, FACSM, Pennington Biomedical Research Center</td>
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<td>Event Type</td>
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<td>Speakers</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Advancing Physical Activity Assessment Methods - Part 1</td>
<td>Thursday 3:15 p.m.-5:00 p.m.</td>
<td>Barbara E. Ainsworth, FACSM, Arizona State University; Colleen Keller, Arizona State University; Rodney Joseph, Arizona State University</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Emerging Issues in Design and Measurement of Interventions with Diverse Populations</td>
<td>Thursday 4:25 p.m.-5:15 p.m.</td>
<td>L. Bruce Gladden, FACSM, Auburn University; Andrew J. Young, FACSM, ARIEM; Bradley Charles Nindl, FACSM, Army Public Health Command</td>
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<tr>
<td>Exchange Lecture</td>
<td>European College of Sport Science Exchange Lecture - Active Earth</td>
<td>Friday 9:30 a.m.-11:00 a.m.</td>
<td>Janet W. Rankin, FACSM, Virginia Tech; Ilse De Bourdeaudhuij, Ghent University; Damon L. Swift, East Carolina University</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Too Little Exercise, Too Much Sitting: Interventions for Multiethnic Populations</td>
<td>Friday 9:30 a.m.-10:20 a.m.</td>
<td>Marc Hamilton, Pennington Biomedical Research Center; Rebecca E. Hasso, University of Michigan; Amber Vermeesch, Michigan State University</td>
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<tr>
<td>Free Communication/Slide</td>
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<tr>
<td>Thematic Poster</td>
<td>Novel Approaches to Improve Physical Activity</td>
<td>Friday 9:30 a.m.-11:30 a.m.</td>
<td>Jacqueline N. Epping, U.S. Centers for Disease Control and Prevention; Stella L. Volpe, FACSM, Drexel University</td>
<td></td>
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<tr>
<td>Free Communication/Poster</td>
<td>Epidemiology of Physical Activity and Health in Older Adults</td>
<td>Friday 7:30 a.m.-12:30 p.m.</td>
<td>David X. Marquez, FACSM, University of Illinois at Chicago; Vanessa M. Martínez, University of Idaho</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Dance</td>
<td>Friday 7:30 a.m.-12:30 p.m.</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Walkin’ the Dog: Science and Practice of Dog Walking and Increased Physical Activity</td>
<td>Friday 10:40 a.m.-11:30 a.m.</td>
<td>Christopher George Berger, Arizona State University; Janet Fulton, FACSM, U.S. Centers for Disease Control and Prevention</td>
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</tr>
<tr>
<td>Colloquium</td>
<td>Fitness on the Fly: Promoting Physical Activity in Airports</td>
<td>Friday 10:40 a.m.-11:30 a.m.</td>
<td>Willem van Mechelen, FACSM, VU University Medical Center; Nico P. Pronk, FACSM, Health Partners</td>
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<tr>
<td>Tutorial Lecture</td>
<td>A Surgeon General’s Call to Action on Walking and Walkability - Process and Product</td>
<td>Friday 1:00 p.m.-1:50 p.m.</td>
<td>Jacqueline N. Epping, U.S. Centers for Disease Control and Prevention; Joan M. Dorn, U.S. Centers for Disease Control and Prevention</td>
<td></td>
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<tr>
<td>Thematic Poster</td>
<td>Physical Activity Assessment</td>
<td>Friday 1:00 p.m.-3:00 p.m.</td>
<td>Mark M. Bird, FACSM, University of Florida; Robert E. Matthews, FACSM, University of Texas at Austin</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Physical Activity Assessment in Adults</td>
<td>Friday 1:00 p.m.-4:00 p.m.</td>
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<tr>
<td>Tutorial Lecture</td>
<td>A Systems Approach to Physical Activity Promotion at the Worksite</td>
<td>Friday 2:10 p.m.-3:00 p.m.</td>
<td>Willem van Mechelen, FACSM, VU University Medical Center; Nico P. Pronk, FACSM, Health Partners</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Sport Science Applications to Organizational Performance in Business and Healthcare</td>
<td>Friday 2:10 p.m.-3:00 p.m.</td>
<td>Jack L. Groppel, FACSM, Human Performance Institute; Carla L. Thompson, FACSM, U.S. Centers for Disease Control and Prevention</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Yes, We Are Latinos. No, We Are Not The Same: Considering Cultural Differences When Designing Interventions Programs for the Latino Population</td>
<td>Friday 3:15 p.m.-4:05 p.m.</td>
<td>David X. Marquez, FACSM, University of Illinois at Chicago; Vanessa M. Martínez, University of Idaho</td>
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<tr>
<td>Tutorial Lecture</td>
<td>How Fast is Enough? Can We Set Cadence (steps/min) Indices for Ambulatory Behavior</td>
<td>Friday 4:25 p.m.-5:15 p.m.</td>
<td>Tiago V. Barreira, Pennington Biomedical Research Center; Catrine Tudor-Locke, FACSM, Pennington Biomedical Research Center</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Physical Fitness and Bariatric Surgery: An Out-of-body Experience?</td>
<td>Saturday 8:00 a.m.-8:50 a.m.</td>
<td>Jonathan K. Ehrman, FACSM, Sinai Health System; Dennis J. Kerrigan, Henry Ford Heart and Vascular Institute; David B. Creel, St. Vincent Carmel</td>
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<tr>
<td>Symposium</td>
<td>Addressing the Social Determinants of Health in Childhood Obesity</td>
<td>Saturday 9:00 a.m.-11:00 a.m.</td>
<td>Nailah Coleman, FACSM, Children’s National Medical Center; Lisa Barkley, University of Central Florida; Darrin Anderson, New Jersey YMCA State Alliance and Robert Wood Johnson Foundation’s State Program Office; Childhood Obesity Prevention M. Alycia Mastrangelo, FACSM, Richard Stockton College</td>
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<td>Free Communication/Poster</td>
<td>Epidemiology of Physical Activity and Health in Youth</td>
<td>Saturday 7:30 a.m.-12:00 a.m.</td>
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**Professional Development/Organizational Information**

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<tr>
<td>Student Colloquium</td>
<td>Student Colloquium: Jump Starting Your Career</td>
<td>Wednesday 5:30 p.m.-7:00 p.m.</td>
<td>L. Bruce Gladden, FACSM, Auburn University; Andrew J. Young, FACSM, ARIEM; Bradley Charles Nindl, FACSM, Army Public Health Command</td>
</tr>
<tr>
<td>Tutorial Lecture</td>
<td>Publishing in Medicine and Science in Sport and Exercise*</td>
<td>Thursday 1:00 p.m.-1:50 p.m.</td>
<td>Kevin R. Vincent, FACSM, University of Florida; Heather K. Vincent, FACSM, University of Florida</td>
</tr>
<tr>
<td>Tutorial Lecture</td>
<td>Building a Successful Research Trajectory Into Your Clinical Practice</td>
<td>Thursday 2:10 p.m.-3:00 p.m.</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Online Teaching and Learning for the Exercise Sciences</td>
<td>Friday 9:30 a.m.-10:20 a.m.</td>
<td>Melissa W. Rott, FACSM, Westfield State University; Karen K. Dennis, Illinois State University</td>
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</table>
Tutorial Lecture  What is the Future for the Degreed Exercise Professional?  Friday  1:00 p.m.-1:50 p.m.  Brad Roy, FACSM, The Summit Medical Fitness Center  Deborah Rebe, FACSM, University of Rhode Island

Tutorial Lecture  Developing Your Scholarship of Teaching and Learning  Friday  3:15 p.m.-4:05 p.m.  Adam Forsky, FACSM, University of North Carolina  Kimberly Reich, High Point University

Psychology, Behavior and Neurobiology

Highlighted Symposium  Beyond Belief: The Placebo Effect In Sports Science Research And Practice  Wednesday  9:30 a.m.-11:30 a.m.  John Raglin, FACSM, Indiana University  Fabrizio Benedetti, University of Turin Medical School, National Institute of Neuroscience  Chris Beedie, Aberystwyth University  Jake Lindheimer, University of Georgia  Alan St Clair Gibson, Northumbria University

Symposium  Exercise in the Treatment of Substance Use  Wednesday  1:00 p.m.-3:00 p.m.  Chad Rethorst, UT Southwestern Medical Center  Bess H. Marcus, University of California, San Diego  Jasper Smits, Southern Methodist University  Mark A. Smith, Davidson College  Madhukar H. Trivedi, UT Southwestern Medical Center

Thematic Poster  Physical Activity and Cognition  Wednesday  1:00 p.m.-3:00 p.m.  John Raglin, FACSM, Indiana University  Fabrizio Benedetti, University of Turin Medical School, National Institute of Neuroscience  Chris Beedie, Aberystwyth University  Jake Lindheimer, University of Georgia  Alan St Clair Gibson, Northumbria University

Free Communication/Poster  Physical Activity and Affect  Wednesday  1:00 p.m.-6:00 p.m.  John Raglin, FACSM, Indiana University  Fabrizio Benedetti, University of Turin Medical School, National Institute of Neuroscience  Chris Beedie, Aberystwyth University  Jake Lindheimer, University of Georgia  Alan St Clair Gibson, Northumbria University

Free Communication/Poster  Physical Activity and Cognition  Wednesday  1:00 p.m.-6:00 p.m.  John Raglin, FACSM, Indiana University  Fabrizio Benedetti, University of Turin Medical School, National Institute of Neuroscience  Chris Beedie, Aberystwyth University  Jake Lindheimer, University of Georgia  Alan St Clair Gibson, Northumbria University

Free Communication/Poster  Physical Activity and Mental Health  Wednesday  1:00 p.m.-4:00 p.m.  John Raglin, FACSM, Indiana University  Fabrizio Benedetti, University of Turin Medical School, National Institute of Neuroscience  Chris Beedie, Aberystwyth University  Jake Lindheimer, University of Georgia  Alan St Clair Gibson, Northumbria University

Free Communication/Poster  Physical Activity and Quality of Life  Wednesday  1:00 p.m.-6:00 p.m.  John Raglin, FACSM, Indiana University  Fabrizio Benedetti, University of Turin Medical School, National Institute of Neuroscience  Chris Beedie, Aberystwyth University  Jake Lindheimer, University of Georgia  Alan St Clair Gibson, Northumbria University

Free Communication/Slide  Neuroscience  Wednesday  3:15 p.m.-4:45 p.m.  John Raglin, FACSM, Indiana University  Fabrizio Benedetti, University of Turin Medical School, National Institute of Neuroscience  Chris Beedie, Aberystwyth University  Jake Lindheimer, University of Georgia  Alan St Clair Gibson, Northumbria University

Tutorial Lecture  Psychological and Mental Distress: Understanding the Athlete's Perspective  Thursday  9:30 a.m.-10:00 a.m.  Irfan M. Asif, University of Tennessee  Brian Hainline, FACSM, NCAA

Symposium  Effects of Physical Activity on Brain Function and Mental Health  Thursday  1:00 p.m.-3:00 p.m.  Frank W. Booth, FACSM, University of Missouri  Rod K. Dishman, FACSM, University of Georgia  Henriette van Praag, National Institute on Aging  Mark P. Mattson, National Institute on Aging  Jacob D. Brown, University of Missouri

Thematic Poster  Exercise Science Education: Improving Student Outcomes  Thursday  1:00 p.m.-3:00 p.m.  Frank W. Booth, FACSM, University of Missouri  Rod K. Dishman, FACSM, University of Georgia  Henriette van Praag, National Institute on Aging  Mark P. Mattson, National Institute on Aging  Jacob D. Brown, University of Missouri

Free Communication/Poster  Behavioral Aspects of Sport  Thursday  1:00 p.m.-6:00 p.m.  Frank W. Booth, FACSM, University of Missouri  Rod K. Dishman, FACSM, University of Georgia  Henriette van Praag, National Institute on Aging  Mark P. Mattson, National Institute on Aging  Jacob D. Brown, University of Missouri

Free Communication/Poster  Physical Activity Correlates  Thursday  1:00 p.m.-6:00 p.m.  Frank W. Booth, FACSM, University of Missouri  Rod K. Dishman, FACSM, University of Georgia  Henriette van Praag, National Institute on Aging  Mark P. Mattson, National Institute on Aging  Jacob D. Brown, University of Missouri

Tutorial Lecture  Ratings of Pleasure-Displeasure as the Emerging Third Pillar of Exercise Prescription  Thursday  3:15 p.m.-4:05 p.m.  Panteleimon Ekkekakis, FACSM, Iowa State University  Walter R. Bixby, FACSM, Elon University

Thematic Poster  Physical Activity and Mental Health  Thursday  3:15 p.m.-5:15 p.m.  Panteleimon Ekkekakis, FACSM, Iowa State University  Walter R. Bixby, FACSM, Elon University

Free Communication/Slide  Perception: RPE  Friday  9:30 a.m.-11:30 a.m.  Panteleimon Ekkekakis, FACSM, Iowa State University  Walter R. Bixby, FACSM, Elon University

Free Communication/Poster  Neuroscience  Friday  7:30 a.m.-12:30 p.m.  Panteleimon Ekkekakis, FACSM, Iowa State University  Walter R. Bixby, FACSM, Elon University

Free Communication/Poster  Perception: Fatigue  Friday  7:30 a.m.-12:30 p.m.  Panteleimon Ekkekakis, FACSM, Iowa State University  Walter R. Bixby, FACSM, Elon University

Free Communication/Poster  Perception: RPE and Pain  Friday  7:30 a.m.-12:30 p.m.  Panteleimon Ekkekakis, FACSM, Iowa State University  Walter R. Bixby, FACSM, Elon University

Exchange Lecture  American Psychological Association-Division of Exercise and Sport Exchange Lecture - Youth Sport Participation as a Two-Edged Sword: Coaching Behaviors that Make a Difference in Psychosocial Outcomes  Friday  10:40 a.m.-11:30 a.m.  Ronald E. Smith, University of Washington

Symposium  Stereotypes, Race, and Athletic Performance  Friday  1:00 p.m.-3:00 p.m.  Nicole R. Keith, FACSM, Indiana University Center for Aging Research  Robert Carter, FACSM, United States Army  Keith Harrison, University of Central Florida  Samuel R. Hodge, The Ohio State University

Tutorial Lecture  60 Years of ACSM Innovation: Exercise and the Brain - the Past, Present and Future  Friday  2:10 p.m.-3:00 p.m.  Romain Meeusen, FACSM, Vrije Universiteit Brussel  Phillip Watson, Loughborough University

Symposium  Multidimensional Aspects of Fatigue  Friday  3:15 p.m.-5:15 p.m.  Aaron J. Stegner, University of Wisconsin-Madison  Timothy W. Pratt, National Institutes of Health  Nancy G. Klimas, Miami Veterans Affairs Medical Center/ Nova Southeastern University  Markus Amann, University of Utah
### Role of Inflammation in Exercise, Health, and Disease

<table>
<thead>
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<tr>
<td>Basic Science World</td>
<td>Regulation of Inflammation in Skeletal Muscle with Exercise</td>
<td>Wednesday</td>
<td>9:30 a.m.-11:30 a.m.</td>
<td>Gordon L. Warren, FACSM, Georgia State University</td>
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| Symposium                         | Systemic Effects of Inflammation: Adipose, Nutrition, and Interventions | Wednesday         | 9:30 a.m.-11:30 a.m. | Kathryn H. Myburgh, FACSM, Stellenbosch University
                   |                                                                     |                   |                   | Giamilia Fantuzzi, University of Illinois at Chicago               |
|                                    | Exercise is Medicine® : Obesity, Inactivity and the Chronic Inflammatory State | Wednesday         | 1:00 p.m.-3:00 p.m.      | Eric Hoffmann, Children's National Medical Center
                   |                                                                     |                   |                   | David Mosser, University of Maryland
                   |                                                                     |                   |                   | John Kirwan, FACSM, Cleveland Clinic
                   |                                                                     |                   |                   | Victoria Vieira-Potter, University of Missouri
                   |                                                                     |                   |                   | Susanna Hofmann, Helmholtz Zentrum München                          |
| Basic Science World               | Aging and Cellular Senescence: Impact of Diet and Exercise             | Wednesday         | 3:15 p.m.-4:05 p.m.  | Nathan LeBrasseur, Mayo Clinic                                        |
| Tutorial Lecture                  | Inflammatory Biomarkers: Link between Obesity and Cancer               | Wednesday         | 3:15 p.m.-4:05 p.m.  | Derek M. Huffman, Albert Einstein College of Medicine                 |
| Basic Science World               | NIH: Effective Grant Applications                                      | Wednesday         | 4:25 p.m.-5:15 p.m.  | Nathan LeBrasseur, Mayo Clinic
                   |                                                                     |                   |                   | Sarah Witkowski, University of Massachusetts Amherst                |
| Symposium                         | Chronic Inflammation, Cytokines, and Physical Activity                 | Thursday          | 8:00 a.m.-10:00 a.m.  | Joseph C. Cane, Georgia Regents University                             |
|                                    |                                                                     |                   |                   | Eric Hoffmann, Children's National Medical Center                   |
| Basic Science World               | Exercise and Adipose Tissue in Health and Disease                      | Thursday          | 8:00 a.m.-10:00 a.m.  | Mark Hargreaves, FACSM, The University of Melbourne                   |
| Symposium                         | Natural Products for the Prevention of Inflammatory Diseases: Mechanistic Insight | Thursday         | 1:00 p.m.-1:50 p.m.  | Ji-Young Lee, University of Connecticut                               |
| Basic Science World               | Environmental and Nutritional Extremes: Immune Function                | Thursday          | 2:10 p.m.-3:00 p.m.  | Neil Walsh, Bangor University                                         |
| Tutorial Lecture                  | Skeletal Muscle Stem Cells and their Modulation by Exercise            | Thursday          | 2:10 p.m.-3:00 p.m.  | Marni D. Boppart, University of Illinois                           |
|                                    |                                                                     |                   |                   | Fabrisia Ambrosius, University of Pittsburgh Medical Center          |
| Basic Science World               | Inflammation, Immunity, and Disease                                    | Thursday          | 3:15 p.m.-5:15 p.m.  | William Copeland, Duke University
                   |                                                                     |                   |                   | Brent A. Baker, CDC/NIOSH                                          |
| Symposium                         | Skeletal Muscle Stress, Inflammation, and Pathology                   | Thursday          | 3:15 p.m.-5:15 p.m.  | Maria L. Ursu, FACSM, Arterioyte
                   |                                                                     |                   |                   | Matthew Hulver, Virginia Tech
                   |                                                                     |                   |                   | Kanupriya Nagaraju, Children's National Medical Center              |

### Skeletal Muscle, Bone, and Connective Tissue

<table>
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<td>Tutorial Lecture</td>
<td>Neuromuscular Fatigue</td>
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<td>Mary Ann Mehlman, University of California</td>
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<td>Free Communication/Poster</td>
<td>Bone, Bone Mineral Density, and Connective Tissue</td>
<td>Wednesday</td>
<td>7:30 a.m.-9:30 a.m.</td>
<td>Benjamin J. Free, University of Florida Scott A. Banks, University of Florida</td>
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<tr>
<td>Free Communication/Poster</td>
<td>Muscle Function</td>
<td>Wednesday</td>
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<td>Sarah L. Schaff, University of Nebraska</td>
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<tr>
<td>Tutorial Lecture</td>
<td>Knee Osteoarthritis and Reconstruction</td>
<td>Wednesday</td>
<td>2:10 p.m.-3:00 p.m.</td>
<td>Benjamin J. Free, University of Florida Scott A. Banks, University of Florida</td>
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<tr>
<td>Symposium</td>
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</table>
| Symposium                         | Mitochondrial Function: 2010 and Beyond                               | Wednesday 3:15 p.m.-5:15 p.m. | Kevin McCully, FACSM, University of Georgia  
Terence Ryan, East Carolina University  
Jill Slade, FACSM, Michigan State University  
Nicola Lai, Dept. of Biomedical Engineering, CWRU |
| Symposium                         | Beyond Calcium: Nutritional Modulators of the Bone Response to Exercise/Disuse | Wednesday 3:15 p.m.-5:15 p.m. | Susan A. Bloomfield, FACSM, Texas A&M University  
Norman Pollock, Georgia Regents University  
Mary Jane De Souza, FACSM, The Pennsylvania State University  
Sue Shapses, Rutgers University |
| Thematic Poster                   | Bone Health and Endurance Exercise                                    | Wednesday 3:15 p.m.-5:15 p.m. |                                                                                                      |
| Thematic Poster                   | Mitochondrial Biology, Exercise, and Health                           | Thursday 8:00 a.m.-10:00 a.m. |                                                                                                      |
| Free Communication/Slide          | Cellular and Molecular Biology in Skeletal Muscle                     | Thursday 8:00 a.m.-10:00 a.m. |                                                                                                      |
| Free Communication/Poster         | Control of Muscle Mass: Anabolic and Atrophic Effects                 | Thursday 7:30 a.m.-12:30 p.m. |                                                                                                      |
| Thematic Poster                   | Sex Hormones and Musculoskeletal Effects                              | Thursday 1:00 p.m.-3:00 p.m. |                                                                                                      |
| Free Communication/Poster         | Aging and Exercise in Health and Disease                              | Thursday 1:00 p.m.-6:00 p.m. |                                                                                                      |
| Highlighted Symposium             | A Few Things Everyone Should Know About Epigenetics and Exercise Adaptations | Friday 9:30 a.m.-11:30 a.m. | John C. Quindry, FACSM, Auburn University  
Mark Hargreaves, FACSM, The University of Melbourne  
Jules K. Zierath, Karolinska Institutet |
| Symposium                         | Physical Activity, Exercise, and Bone Health: Paying it Forward       | Friday 9:30 a.m.-11:30 a.m. | David Q. Thomas, FACSM, Illinois State University  
Kathleen F. Janz, FACSM, University of Iowa  
Wendy M. Kohrt, FACSM, University of Colorado - Anschutz Medical Campus  
David Q. Thomas, FACSM, Illinois State University |
| Thematic Poster                   | Aging and Skeletal Muscle                                             | Friday 9:30 a.m.-11:30 a.m. |                                                                                                      |
| Free Communication/Poster         | Cellular/Molecular Signaling and Satellite Cells                      | Friday 7:30 a.m.-12:30 p.m. |                                                                                                      |
| Symposium                         | Sphingolipids and Skeletal Muscle                                     | Friday 1:00 p.m.-3:00 p.m. | John C. Quindry, FACSM, Auburn University  
Leonardo F. Ferreira, University of Florida  
L. Ashley Cowart, University of South Carolina  
Scott A. Summers, Duke University |
| Free Communication/Poster         | Mitochondrial and Metabolic Responses                                 | Friday 1:00 p.m.-4:00 p.m. |                                                                                                      |
| Symposium                         | Powerhouse: Mitochondrial Structure, Exercise Function, and Training Response | Friday 3:15 p.m.-5:15 p.m. | L. Bruce Gladden, FACSM, Auburn University  
Michael C. Hogan, FACSM, University of California-San Diego  
David C. Chan, California Institute of Technology  
Brian Glancy, National Heart, Lung, and Blood Institute  
Simon Schenk, University of California, San Diego |
| Symposium                         | The Energy Cost of Muscle Activity in Older Adults                    | Saturday 9:00 a.m.-12:00 a.m. | Ross H. Miller, University of Maryland  
Jane A. Kent-Braun, FACSM, University of Massachusetts  
Russell J. Hopple, McGill University  
Russell S. Richardson, University of Utah  
Ross H. Miller, University of Maryland |
| Thematic Poster                   | Exercise and Blood Flow Restriction                                  | Saturday 9:00 a.m.-12:00 a.m. |                                                                                                      |
| Free Communication/Poster         | Musculoskeletal Injury and Muscle Damage                              | Saturday 7:30 a.m.-12:00 a.m. |                                                                                                      |
The Awards and Tributes Committee is pleased to announce the 2014 Honor and Citation Award recipients. These individuals are recognized for their significant contributions to the exercise science and sports medicine fields. They will be recognized during the Awards Banquet on Friday, May 30th from 7:00-10:00 p.m.

2014 Honor Award Recipient

James Skinner, Ph.D., FACSM
Brevard, North Carolina

2014 Citation Award Recipients

Thomas Best, M.D., Ph.D., FACSM
The Ohio State University
Columbus, Ohio

Bente Kiens, Ph.D., Sc.D.
University of Copenhagen
Copenhagen, Denmark

Victor Matsudo, M.D.
CELAFISCs
Sao Paulo, Brazil

Sandra Mahecha Matsudo, M.D.
CELAFISCs
Sao Paulo, Brazil

James Pivarnik, Ph.D., FACSM
Michigan State University
East Lansing, Michigan

Paul Thompson, M.D., FACSM
Hartford Hospital
Hartford, Connecticut

Antronette Yancey, M.D. (Posthumous)
UCLA School of Public Health
Los Angeles, California
Graduate and Early Career Day
Preconference and Networking Opportunity

Tuesday, May 27
3:00-7:00 p.m.

See page 11 for details.

Student Colloquium “Jump Starting Your Career”

Wednesday, May 28, 2014
5:30-7:00 p.m.
The Rosen Centre Hotel

The 2014 student colloquium offers an enhanced twist this year: both student and faculty perspectives. This event consists of three different sections aimed at educating ACSM students on various aspects of career development. What is unique about the colloquium is that students are allowed to rotate to the different sections. This allows for a more intimate discussion and students can have more opportunities to ask questions. So join us Wednesday evening to learn about how to jump start your career from professionals in the following areas: Funding, Internships and Certification. Speakers include:

Funding:
Michael Reid, University of Florida
David Ferguson, Baylor College of Medicine

Internships:
Steve Martin, Texas A&M
Katie Smith, Iowa State University

Certification:
Heather Vellers, Texas A&M
J. Timothy Lightfoot, FACSM, Texas A&M

Meet the Expert Networking Session

Friday, May 30, 2014
12:00-12:45 p.m.
The Rosen Centre Hotel

Set yourself apart from your peers by attending the session that could change your career. Several of ACSM’s esteemed leaders have agreed to be a part of this hour lunch/networking session. You must check off and purchase a ticket for this event when you register for the ACSM Annual Meeting.

Limited to first 100 students!

Experts confirmed:
Tom Best, FACSM
JoAnn Eickhoff Shemek, FACSM
J. Timothy Lightfoot, FACSM
Doug McKeag, FACSM
Wojtek Chodzko-Zajko, FACSM

Invited (confirmed list will be updated on the website and in the onsite final program)

David Buchner, FACSM
Robert Cantu, FACSM
Michael Reed

(CVs will be available at Student Help Desk prior to the event)
Tuesday, May 27

Celebrating 60 Years
7:00-9:00 p.m.
An opening social for all attendees will take place Tuesday evening beginning at 7:00 p.m. Plan to see your colleagues, meet new friends, and celebrate ACSM’s 60th Anniversary.

Wednesday, May 28

Exhibit Hall Opening Reception
5:00-6:00 p.m.
7th Annual Student Bowl
7:30 p.m.
The Rosen Centre Hotel
In this popular event, students face off in a friendly, Jeopardy-style competition showcasing their sports medicine and exercise science knowledge. A light reception is included.

Interest Group Meetings
Wednesday, May 28-Thursday, May 29
5:45-7:15 p.m.
Orange County Convention Center
Are you passionate about biomechanics? Perhaps epidemiology is your field? Meet members who share your interest at an Interest Group meeting on Wednesday and Thursday from 5:45-7:15 p.m. at the Orange County Convention Center. The complete schedule will be available on site or at www.acsmannualmeeting.org in May.

Thursday, May 29

Josephine L. Rathbone Memorial Breakfast Honoring ACSM’s Women
6:30-7:45 a.m.
The Rosen Centre Hotel
Honor ACSM’s female members at the Josephine L. Rathbone Memorial Breakfast. This event, presented by the Strategic Health Initiative on Women, Sport and Physical Activity, is free to attend, but a ticket is required. Pick up your ticket at the “Breakfast Ticket” counter at registration.

Regional Chapter Events
8:00-9:30 p.m.
The Rosen Centre Hotel
Make lasting connections with professionals and students from your state or region at a Regional Chapter social event. If you aren’t already a member, you’ll learn more about the benefits of Regional Chapter membership.

International Reception
8:00-9:00 p.m.
The Rosen Centre Hotel
(For international guests only) Meet and network with your international peers at this special reception. Invitations are required for this event and will be distributed at registration.

Friday, May 30

14th Annual Gisolfi 5K Fun Run
6:00 a.m.
Join hundreds of runners and walkers at the 14th Annual Gisolfi 5K Fun Run.

Awards Banquet
7:00-10:00 p.m.
The Rosen Centre Hotel
Join a time-honored tradition by attending the Awards Banquet at The Rosen Centre Hotel on Friday evening. The 2014 Honor and Citation awardees will be recognized during this event. Tickets are $60 each, and guests can purchase tickets in advance (via the registration form) or on site if available.
ACSM has reserved blocks of rooms at several hotels near the Orange County Convention Center. Reserve online at www.acsmannualmeeting.org or call 1-888-665-1367. Rooms are available on a first-come first-served basis until April 28, 2014, or until the block sells out, whichever comes first. The Rosen Centre is the headquarter hotel. Visit www.acsmannualmeeting.org for more hotel information.

**Hotel Room Rate**

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<tr>
<td>Embassy Suites</td>
<td>Double/Double</td>
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<td>Rosen Centre - HQ</td>
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<tr>
<td>Rosen Inn - Student</td>
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<tr>
<td>Rosen Plaza</td>
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<td>$159</td>
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<tr>
<td>Springhill Suites</td>
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**Register today** at www.acsmannualmeeting.org. Pre-registration ends May 14. If you do not have access to a computer, contact our registration coordinator at (317) 637-9200 x 141.

**Registration Fees**

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<th>Current ACSM Members (dues must be current at time of meeting)</th>
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Join ACSM now! (first time members)  
(fee includes ACSM membership and meeting registration fees)

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**Non-ACSM Member**

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Exercise is Medicine®, a multidisciplinary, multi-organizational initiative, strives to make physical activity an integral part of health care and disease prevention around the globe. Over the last several years, the initiative has grown from an idea to a global initiative—with Regional Centers and National Task Forces in more than 30 countries spanning six continents.

The 5th World Congress on Exercise is Medicine offers attendees even broader programming, giving you new tools to integrate Exercise is Medicine in your practice and community. Top experts will discuss EIM topics from health care integration, implications of physical activity on community health, exercise in special populations, and so much more. You’ll also learn how to utilize existing EIM infrastructure in your region and make the professional connections you need across the globe.

See pages 18-20 for a complete listing of all Exercise is Medicine sessions that will be held at this year’s meeting.

Get involved in Exercise is Medicine® today!

Whether you’re a scientist, health care provider, researcher, fitness professional or student, everyone plays a critical role in the Exercise is Medicine initiative. It is time to take action.

Visit www.exerciseismedicine.org to become a network member, download toolkits, bring EIM to your campus, and much more!

Support for the Exercise is Medicine® Global Initiative is Provided By:

**EIM Global Partners:**

- The Coca-Cola Company
- Anytime Fitness
- DUNK®
- TECHNOGYM
- UNITED HEALTH FOUNDATION®

**EIM Network Partners:**

- Medical Fitness Association
- Trustmark
Exhibit Hall

Exhibitors represent the wide range of products and services supporting sports medicine, research, education, and services. In addition to the companies you’ve come to know and access, many not-for-profit organizations, government agencies, and project-based groups exhibit.

Exhibitors (as of February 25, 2014)

ACCUSPLIT
ACCUSPORT/Sports Resource Group
ACSM Store/Healthy Learning
Actigraph
ActivAided Orthotics
ADInstruments
AEI Technologies
AMTI
American Association of Cardiovascular and Pulmonary Rehabilitation (AACVPR)
American Physiological Society
Arizona State Univ
Artinis
Atcor Medical
Bertec
Biodex
Bio-Oil
BIOPAC
BIOSPACE
BTE
BTS Bioengineering Corp
Calmoseptine
CamNtech, Inc
Cardesa Associates
CareFusion
CEPA
Coldtub
COSMED
Delsys
Designed to Move
DJO
DMT-USA Inc
Every Body Walk
F.A. Davis
FASEB
Gensco Laboratories
Great Lakes Neuro
GSSI
Hapad, Inc
Hawaiian Moon
Healthcare International
h/p cosmos Sports & Medical gmbh
Human Kinetics
ImpACT Applications
IntelaMetrix
Intelliskin
iWorX
Journal of Athletic Training
Kangen Water
Kesser
Kestrel Heat Stress by NK
Kistler
KORR
Lafayette Instrument
Lila Enterprises
LightForce Therapy Lasers by LiteCure
Lode
M.S. Plastics
MacPractice
MGC Diagnostics
Motion Analysis
The MotionMonitor/Innovative Sports Training
National Strength and Conditioning Association (NSCA)
NDI Northern Digital
Noraxon
Nova Biomedical
novel
PAL Technologies
ParvoMedics
Performance Health/Thera-Band/Biofreeze
Philips Resirronics
PowerBar
Prevention Pharmaceuticals
Qualisys
RacerMate
Rosscraft
Routledge
Sable Systems
Salimetries
seca Corporation
Simi Reality Motion Systems GmGH
SM Europe
Spacelabs Healthcare
Technogym
Tekscan
Terason
Tractivity by Kineteks Corp
VacuMed
VIA seating
Vicon
Wolters Kluwer Health
Woodway USA
Xcitex

Exhibit Dates:
May 28-31, 2014

Exhibit Hours:

Wednesday, May 28
1:30-6:00 p.m.
(Reception: 5:00-6:00 p.m.)

Thursday, May 29
9:30 a.m.-5:00 p.m.

Friday, May 30
9:30 a.m.-2:00 p.m.
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