Mid-Atlantic Regional Chapter of the American College of Sports Medicine (MARC-ACSM)

42nd Annual Scientific Meeting - 2019

FINAL PROGRAM

Friday, November 1st, 2019 and Saturday, November 2nd, 2019

Sheraton Harrisburg-Hershey Hotel Harrisburg, PA

Table of Contents

Schedule-at-a-	-Glance Overview	2
Schedule by T	Copics	5
President's W	elcome	8
MARC Execu	tive Committee	9
Hotel Meeting	g Rooms Locations	9
Studer Raffle Evalua	nformation: nuing Education Credits/ CMEs nt Award ntion Forms. er Ready Room.	10 11 11
MARC-ACSN	M 2019 Keynote Speaker	12
Annual Scient	cific Meeting Bios	13
Friday 11/1	Salon A (Morning). Salon B (Morning). Salon C, D, E (Morning). Pennsylvania Room (Morning). Chestnut/Dogwood (Morning).	.28 29 30
	Salon A (Afternoon). Salon B (Afternoon). Salon C (Afternoon). Salon DE (Afternoon). Pennsylvania Room (Afternoon). Chestnut/Dogwood (Afternoon). Ash/Birch (Afternoon). Elm/Fir (Afternoon).	33 34 36 38 40
Saturday 11/2	Salon A (Morning). Salon B (Morning). Salon C, D, E (Morning). Chestnut/Dogwood (Morning). Pennsylvania Room (Morning). Ash/Birch (Morning). Elm/Fir (Morning).	.48 49 50 51

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MARC-ACSM Schedule-at-a-Glance: Fri. Nov. 1st Please refer to the Program Booklet for specific times.

T:	D-U	D-U		m Booklet for specific times.	Chartent / Danier and	A - l- /D:l-	Fl /F:
8:30 AM	Ballroom A	Ballroom B	Ballroom C,D,E	Pennsylvania MEDICAL/PHYSICIAN TRACK	Chestnut/Dogwood	Ash/Birch	Elm/Fir
8:30 AIVI				WEDICAL THISICIAN TRACK			
				COMPARE AND CONTRAST E-SPORTS			
				RTICIPATION WITH TRADITIONAL ATHLE	┪		
9:00 AM	ERCISE, CVD AND WOMEN'S HEAL	CAFFEINE AND EXERCISE	BLOOD FLOW AND EXERCISE	Dr. Seth Jenny	EXERCISE AND THE PELVIC FLOOR		
	PREGNANCY: A STRESS TEST AND A WINDOW OF OPPORTUNITY FOR	OPENING REMARKS					
	IMPROVING CARDIOVASCULAR HEALTH	Dr. Eric Rawson	BLOOD FLOW RESTRICTION		HOW DOES EXERCISE IMPACT THE		
	IN WOMEN	CAFFEINE, GENETICS AND ATHLETIC	TRAINING: A COMING OF AGE	VIDEO GAIT ANALYSIS	PELVIC FLOOR?		Pre-Paid Registration
9:30 AM	Dr. Stella Goulopoulou	PERFORMANCE	Dr. Jeremy Loenneke	Dr. Matt Sylvis	Dr. Tamara Rial-Rbullido		Pick-up
	CARDIOVASCULAR FUNCTION IN	Dr. Nanci Guest	BLOOD FLOW RESTRICTED RESISTANCE	COLLABORATION IN SPORTS MEDICINE			
	FEMALE MARATHON RUNNERS Dr. Jacqueline Augustine	CAFFEINE'S EFFECT ON	TRAINING PROTOCOLS FOR OLDER	WHAT IS THE ROLE OF SPORTS	Dr. Cathy Ingram		
10:00 AM		CAFFEINE'S EFFECT ON NEUROMUSCULAR FUNCTION	ADULTS Dr. Summer Cook	MEDICINE IN THE EVOLVING HEALTH SYSTEM?	PROFESSIONAL TUTORIAL		
10.0071111	SEX DIFFERENCES OF BIOMARKERS FOR CVD AND RESPONSES TO EXERCISE	Dr. Nate Jenkins		Dr. Gene Hong	. NOT ESSIONAL TOTORIAL		
	Dr. Rian Landers-Ramos	CAFFEINE AND AEROBIC EXERCISE	THE APPLICATION OF BLOOD FLOW RESTRICTION IN CLINICAL				
	MENOPAUSE AND AEROBIC FITNESS: IS	Dr. Chris Womack	POPULATIONS.		ACULTY/PROFESSIONAL DEVELOPMEN		
10:30 AM	IT REALLY AS SIMPLE AS WE THINK?		Dr. Scott Dankel	CORRELATION TO INJURY	Dr. Nancy Williams		
	Dr. Cory Serviente	Questions / Responses		Dr. Marc Harwood	National Kinesiology Association		
	Overtions / P		Questions / Responses				
44.05	Questions / Responses	F	Maria - Maria				
11:00 AM	PAST PRESIDENT LECTURE	ENDOTHELIAL FUNCTION	MUSCLE METABOLISM	PEDIATRIC SPECIALIZATION IN SPORTS	CHILDHOOD OBESITY		
	I AM WOMAN! PERSPECTIVES ON	Assess Endothelial Function: You Con-du-it. NO Movement Necessary	SUSTAINING POWER: BUILDING ENERGY NETWORKS IN STRIATED MUSCLE CELLS	MEDICINE Dr. John DiFiori	LIFESTYLE INTERVENTION ON		
	Woman's Fitness, Health and	Dr. Ninette Shenouda	Dr. Brian Glancy		BIOMARKERS OF TYPE 2 DIABETES IN YOUTH		
11:30 AM	SPORTS PARTICIPATION ACROSS THE LIFESPAN	WAVE YOUR LEGS IN THE AIRPASSIVE LEG MOVEMENT TO ASSESS VASCULAR	DECONSTRUCTING MITOCHONDRIAL ENERGETICS IN HEALTHY & FAILING		Dr. HJoon Young Kim		
	Dr. Carol Ewing Garber	FUNCTION	HEARTS				
		Dr. Melissa Witman	Sara Kuzmiak-Glancy				
				LUNCH 12-1 pm			
1:00 PM	STATINS AND EXERCISE	NIH LECTURE	SALON C SALON D/E	CLINICAL CASE STUDIES	RESEARCH	RESEARCH	RESEARCH
		MOVING MORE AND SITTING LESS: WHAT	POSTER SESSION Note: This room is Split for the Afternoon	FREE COMMUNICATIONS	FREE COMMUNICATIONS	FREE COMMUNICATIONS	F REE COMMUNICATIONS
	STATIN THERAPY: CARDIOVASCULAR	YOU NEED TO KNOW ABOUT THE NEW	Note: This room is spin for the Alternoon				
1:30 PM	CURE OR MUSCLE MALADY?	PHYSICAL ACTIVITY GUIDELINES FOR AMERICANS				MASTER'S RESEARCH	
	Dr. Beth Taylor	Dr. Katrina Piercy				AWARD NOMINEES	
			Poster Session	CLINICAL CASES			
			Posters presentations will occur	Case Presentations will occur		Research presentations will occur	
2:00 PM	NUTRITION - KETO DIET	PHYSICAL ACTIVITY	every 10 minutes.	every 15 minutes.		every 15 minutes.	
	THE	PRESCHOOL CENTER-BASED PHYSICAL	Please check Your program or	Please check your program or		Please check your program or	
	PALEOKETOVEGANMACROFASTING	ACTIVITY INTERVENTIONS Dr. Sofiya Hassan	specific titles.	specific topics.	PODIUM PRESENTATIONS	specific titles.	
2:30 PM	DIET: STOP THE MADNESS Dr. Shawn Arent	Dr. Sonya nassan			Research presentations will occur	RESEARCH	Presentations
2.50 PW	Dr. Gram Arton				every 15 minutes. Please check your program or	FREE COMMUNICATIONS	PRESENTATIONS
		NOVEL AND EFFECTIVE APPROACHES TO			specific titles.	TREE COMMONICATIONS	Research presentations will occur
	ATHLETE: HOW TO BLOCK OUT THE	PROMOTING PHYSICAL ACTIVITY IN LATINO CHLDREN/FAMILIES			.,,	DOCTORAL RESEARCH	every 15 minutes.
3:00 PM	NOISE	Dr. Sharon Ross				AWARD NOMINEES	Please check your program or
	Michelle Arent, MPH						specific titles.
		MEASUREMENT OF ACTIVITY BEHAVIORS				Research presentations will occur	
	CONCUSSION UPDATE	Dr. Tiago Barreira				every 15 minutes.	
3:30 PM	THE CARE CONSORTIUM, FINDINGS	INTERVENIEURO TO SET L TOS	POSTER SESSION II	Case Presentations will occur		Please check your program or	
	FROM A MULTI-SITE CONCUSSION STUDY	INTERVENTIONS TO SIT LESS Dr. Bethany Barone Gibbs	Posters presentations will occur every 10 minutes.	every 15 minutes. Please check your program or		specific titles.	
	Dr. Steve Broglio	,	Please check Your program or	specific topics.		MEET THE EXPERTS	
4:00 PM		Aging	specific titles.			STUDENT SESSION:	
	SPIT SIGNALS: CONCUSSION INSIGHTS						
	FROM SALIVA MOLECULES	AGING ASSOCIATED DECLINES IN				A session that students can	
	Dr. Steve Hicks	CAPILLARIZATION: EFFECTS ON				meet and greet our invited speaker	
4:30 PM	MOVEMENT AND COGNITIVE TESTING IN	METABOLISM, FITNESS AND FUNCTION					
	CONCUSSION INJURY Dr. Christopher Neville	Dr. Steve Prior				4 - 5 speakers from the conference	
	Dr. Griscopher Neville						
			DIN	NER 5:00 - 7:15 PM			
7:15 PM		KEYNOTE					
7:15 PM			Address				
7:15 PM			ADDRESS MARATHON				

MARC-ACSM Schedule-at-a-Glance: Saturday, Nov. 2nd

Please refer to the Program Booklet for specific times.

Time	Ballroom A	Ballroom B	Ballroom C,D,E	Pennsylvania	Chestnut/Dogwood	Ash/Birch	Elm/Fir
8:00 AM	POSTER SESSION	BIOMECHANICS.	FIREFIGHTER HEALTH AND SAFETY	Poster Session	Poster Session	RESEARCH	RESEARCH
						FREE COMMUNICATIONS	FREE COMMUNICATIONS
8:30 AM		My Body wants to Stop Running - Should I Listen? The Biomechanics of Fatigued Running	THE BIG 8 OF FIREFIGHTER FUNCTIONAL FITNESS Dr. Dan Kerrigan			PODIUM PRESENTATIONS Research presentations will occur	
	POSTER SESSION	Dr. Ajit Chaudhari		POSTER SESSION	POSTER SESSION	every 15 minutes.	PODIUM PRESENTATIONS
	Posters presentations will occur	•		Posters presentations will occur	Posters presentations will occur	Please check your program or	Research presentations will occur
	every 10 minutes.			every 10 minutes.	every 10 minutes.	specific titles.	every 15 minutes.
9:00 AM	Please check Your program or	BIOMECHANIC FREE COMMUNICATION	CARDIOVASCULAR & CHEMICAL	Please check Your program or	Please check Your program or		Please check your program or
	specific titles.		EXPOSURE RISKS ON TODAY'S FIREGROUND	specific titles.	specific titles.		specific titles.
			Dr. Gavin Horn			Break	
		PODIUM PRESENTATIONS				вгеак	
9:30 AM		Research presentations will occur				RESEARCH	
		every 15 minutes.				FREE COMMUNICATIONS	
		Please check your program or					
		specific titles.				UNERGRADUATE RESEARCH	
10:00 AM			THE COMBINED INFLUENCE OF VIRTUAL			AWARD NOMINEES	
			TRAINING AND SLOW-PACED			Research presentations will occur	
			VENTILATION ON DECISION-MAKING IN	Poster Session	Poster Session	every 15 minutes.	PODIUM PRESENTATIONS
			Professional Firefighters	Posters presentations will occur	Posters presentations will occur	Please check your program or	Research presentations will occur
10:30 AM			Calviin Lu, PhD Candidate	every 10 minutes.	every 10 minutes.	specific titles.	every 15 minutes.
				Please check Your program or	Please check Your program or		Please check your program or
				specific titles.	specific titles.	RESEARCH	specific titles.
			FIRE FIGHTER COMBAT CHALLENGE				
11:00 AM			Paul Davis			FREE COMMUNICATIONS	
			ruui Duvis			PODIUM PRESENTATIONS	
						Research presentations will occur	
11:30 AM						every 15 minutes.	
						Please check your program or	
						specific titles.	
						.,,	
12:00 PM							

Lunch/Banquet Awards and Raffle Drawing 12:30 - 2:00p

Schedule by Topics - Friday

Blood Flow	
9:30-9:35a	21 years of Blood Flow Restriction Training
9:35-10:10a	Optimizing Blood Flow Restricted Resistance Training Protocols for Older Adults29
10:10:10:45a	The Application of Blood Flow Restriction in Clinical Populations29
11:00-11:30a	Brachial Flow Mediated Dilation to Assess Endothelial Function28
11:30-12:00a	Passive Leg Movement to Assess Peripheral Vascular Function
Clinical Exercise Physio	logy
11:00-11:50a	Lifestyle Intervention on Biomarkers of Type 2 Diabetes in Youth31
1:00-1:50p	Statin Therapy: Cardiovascular Cure or Muscle Malady?32
4:00-5:00p	Aging Declines in Capillarization: Metabolism, Fitness and Function33
Concussion Update	
3:30-4:00p	The CARE Consortium: Findings from a Multi-site Concussion Study32
4:00-4:30p	Spit Signals: Concussion Insights from Saliva Molecules
4:30-5:00p	Advanced Movement and Cognitive Testing in Concussion Injury32
Faculty Development	
10:00-10:50a	National Kinesiology Association
Medical Talks	-
8:30-9:10a	eSports Sports Medicine: Competitive Video Gaming30
9:10-9:50a	Running Gait Analysis for the Practicing Clinician
9:50-10:30a	Collaboration in Sports Medicine - What is the Role of Sports Medicine30
10:30-11:10a	Dance Vocabulary and Correlation to Injury30
11:10-12:00p	Pediatric Specialization in Sports Medicine
Muscle Metabolism	
11:00-11:15p	Deconstructing Mitochondrial Energetics in the Healthy and Failing Hearts29
11:15-11:30p	Evaluating Mitochondrial with Subcellular Resolution
11:30-12:00p	Sustaining Power: Building Energy Networks in Striated Muscle Cells
Nutrition and Suppleme	
9:00-9:50a	Caffeine, Genetics and Athletic Performance
10:50-10:15a	Caffeine's Effect on Neuromuscular Function: Brain to Skeletal Muscle
10:15-10:50a	Caffeine and Aerobic Exercise
2:00-2:40p	The PaleoKetoVeganMacroFasting Diet: Stop the Madness
2:40-3:25p	Sport Nutrition and the College Athlete: How to Block Out the Noise
Physical Activity	~r · · · · · · · · · · · · · · · · · · ·
1:00-1:50p	Moving More and Sitting Less: New Physical Activity Guidelines33
2:00-2:30p	Preschool Center-based Physical Activity Interventions: Teachers Matter
2:30-3:00p	Interventions to Promote Physical Activity in Latino Preschool Children
3:00-3:30p	Measurement Behaviors: Sleep, Sedentary Time and Physical Activity
3:30-4:00p	Interventions to Sit Less.
Women's Health	Therefolds to but Desg
9:00-9:40a	Pregnancy: An Opportunity for Improving Cardiovascular Health in Women27
9:00-9:50a	How Does Exercise Impact the Pelvic Floor
9:40-10:00a	Cardiovascular Function in Female Marathon Runners
10:00-10:25a	Sex Differences in Biomarkers for CVD and Responses to Exercise
10:25-10:50a	Menopause and Aerobic Fitness
11:00-12:00p	Perspectives on Woman's Fitness and Health Across the Lifespan
11.00 12.00р	27
	Calcadala har Tandan Catanadan
	Schedule by Topics - Saturday
Biomechanics	
9:00-9:40a	My Body Wants to Stop Running - Should I Listen?48
Firefighter Health and S	Safety
8:00-8:55	The Big 8 of Firefighter Functional Fitness
9:00-9:55	Cardiovascular & Chemical Exposure Risks on Today's Fireground
10:00-10:55	Virtual Training and Slow-paced Ventilation on Decision-making49
11:00-11:55	Fire Fighter Combat Challenge

President's Welcome Kevin Heffernan, Ph.D.

Syracuse University



Take some of the top researchers, educators and clinicians in PA, NY, NJ, MD, DE...add some of the most renowned scientists and practitioners from around the country...include a national ACSM past president, an author of the physical activity guidelines, 2 past student award winners now considered top scholars in their respective fields...top it off with one of the most prolific and impactful integrative physiologists/exercise physiologists in the world delivering the keynote...marinade all of this with some of the most engaged undergraduate and graduate students in exercise science/kinesiology and trainees and fellows in sports medicine in the nation... and we get the 42nd annual Mid-Atlantic Regional Chapter (MARC) of the American College of Sports Medicine (ACSM) conference.

The MARC ACSM executive board has planned an exciting meeting that's sure to have something for everyone. Some of the leading experts in the field will be joining us to cover a wide array of topics from women's heart health, to concussions, eSports, keto diets, blood flow restriction exercise, a behind the scenes look at the genesis of the Physical Activity Guidelines, emerging strategies to measure and promote physical activity in children and adults, and of course a session dedicated to everyone's favorite supplement CAFFEINE. We also have an exciting session planned on Firefighter Health and Fitness that's sure to be memorable. This session will include demonstrations of functional exercises for firefighters as well as an opportunity for all to test their chops in a firefighter "combat challenge."

We are particularly excited to have Michael Joyner M.D. with us as our keynote speaker. Dr. Joyner is a faculty member at the Mayo Clinic in Rochester, Minnesota. His research interests are broad and include elucidating physiological mechanisms governing blood pressure and blood flow regulation. He is also interested in understanding the physiology of elite athletes. This past October 12th in Vienna, Eliud Kipchoge ran the first ever sub-2-hour marathon. Dr. Joyner's keynote address on the science underlying such a feat is as timely as ever and will be sure to be both informative and provocative. Dr. Joyner is highly regarded as one of the most prominent integrative physiologists/exercise physiologists in the world. He has published over 350 peer-reviewed papers and has mentored dozens of emerging and influential scholars in our field, including several now in the MARC region. He remains a research role model to many, including myself.

On the theme of "breaking records", we were excited to see a record-breaking number of abstract submissions from students, professionals and clinicians. In 2012, the MARC research committee received close to 80 submitted abstracts. Four years later in 2016 we eclipsed the formidable 100 abstract mark. And 3 years after this in 2019, we're knocking on the door of 200. This trajectory has been most impressive and highlights the growth in our region. Is breaking 2(00) in our future?

In between talks, be sure to roam around the expo and greet our vendors. Learn more about graduate school opportunities from colleges and universities in the region. Also learn more about new methods and equipment being used to probe the depths of physiology and human performance. Take time to network with peers from other institutions and chat with our invited speakers and distinguished faculty. Friday evening, cheer on your friends as colleges and universities from around the region go head-to-head in our always popular College Bowl and Fitness Challenge. For faculty and professionals that need to unwind after weeks of prepping talks

and mentoring student posters and presentations, join me for a beverage at the Faculty and Professional Social.

For those of you that are true-blue MARC ACSM members, thank you (from the bottom of my heart and connecting stiff arteries) for your continued support. MARC remains one of the strongest and fastest growing ACSM regions in the country because of dedicated members like you. For those of you joining us for the first time, we hope to see you again. MARC is a great region with great people. We'd love for you to join our family. A special welcome to friends and colleagues joining us from the community as well as those on the other side of the Mississippi (greetings Mizzou).

I'd like to thank the members of the Executive Board for all of their efforts in ensuring the success of the region and our annual meeting. It's always a pleasure to be surrounded by so many incredible and passionate scholars, clinicians and educators. I'd like to especially acknowledge the hard work and dedication of our Executive Director, Dr. Scott Kieffer, and our Associate Executive Director, Dr. Joohee Sanders. They are truly the glue that holds MARC together.

Enjoy the meeting. If you see me running around, be sure to say hi!

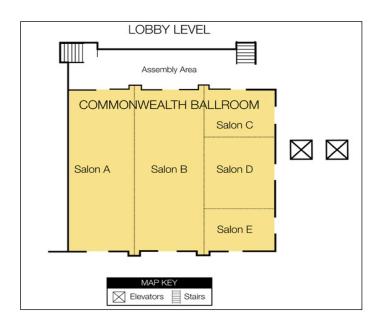
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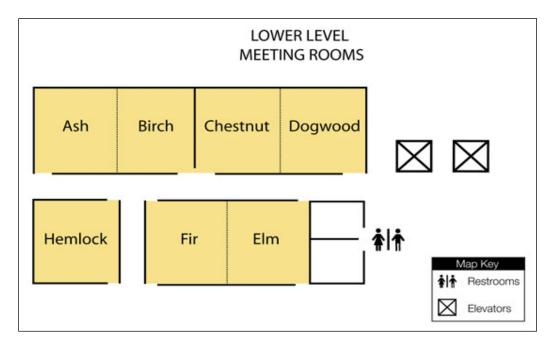
2019 MARC-ACSM Executive Board

President	Kevin Heffernan, Ph.D.
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	executive@marcacsm.org

Sheraton Harrisburg-Hershey Hotel Meeting Rooms

Note: The Pennsylvania Room is opposite the registration desk on the lobby level.





REGISTRATION INFORMATION:

Hours:

Thursday	7:00pm – 9:00pm
Friday	7:30am - 5:00pm
Saturday	7:30am - 10:00am

On Friday Morning from 7:30a–10:00a:

- •Pre-Registered floor (lower Level) in Elm/Fir.
- •Onsite registration: Adjacent to Ballroom (Salon) C, D, E.

CONTINUING MEDICAL EDUCATION CREDITS (CMEs):

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Penn State College of Medicine and MARC ACSM. Penn State College of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Penn State College of Medicine designates this live activity for a maximum of 6 AMA PRA Category 1 Credit(s)TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CONTINUING EDUCATION CREDITS: (CEC/CEUs)

MARC-ACSM is an approved CEC provider for ACSM. Please be sure to pick up your CEC Certificate at the tables outside of Ballroom (Salon) C, D, E. The ACSM's Professional Education Committee certifies that this Continuing Education offering meets the criteria for 14 credit hours of ACSM Continuing Education Credit (CEC).

NSCA professionals should request a certificate of attendance from the registration table for submission related to their certifications. Individuals with other certifications (NATA, AFAA, ACE, etc.) should also pick up a certificate of attendance that may be used to petition CECs from their certifying organization. MARC-ACSM is not responsible for determining if such organizations will or will not approve CECs from attending the MARC-ACSM meeting.

STUDENT AWARDS:

MARC-ACSM is pleased to present the following awards:

MARC-ACSM Matthew Kerner Undergraduate Student Investigator Award

Eligible individuals are a current or recently graduated UG student who is not enrolled in a Master's level program. The purpose of this award is to recognize and support undergraduate student investigative research. The winner receives a plaque and \$250. All undergraduate students who submit an abstract for a Free Communications/Slide presentation at the MARC-ACSM Annual Meeting will be eligible for this award. The award is based on the quality of the submitted abstract and the presentation at the meeting. All abstracts will be evaluated, but only the top abstracts will have their presentations evaluated.

MARC-ACSM Master's Student Investigator Award

Eligible individuals are any student who is currently enrolled in a Master's level program, even if the work was completed as an UG student. The purpose of this award is to recognize and support Master's level student investigative research. The winner receives a plaque and \$400. All undergraduate students who submit an abstract for a Free Communications/Slide presentation at the MARC-ACSM Annual Meeting will be eligible for this award. The award is based on the quality of the submitted abstract and the presentation at the meeting. All abstracts will be evaluated, but only the top abstracts will have their presentations evaluated.

MARC-ACSM Doctoral Student Investigator Award

Eligible individuals are any student who is currently enrolled in a doctoral or medical program, even if the work was completed as a Master's student. The purpose of this award is to recognize and support graduate student investigative

research. The winner receives a plaque and \$500 to be used to defray either travel costs to the National ACSM meeting or her/his research expenses. All graduate students who submit an abstract for a Free Communications/Slide presentation at the MARC-ACSM Annual Meeting will be eligible for this award. The award is based on the quality of the submitted abstract and the presentation at the meeting. All abstracts will be evaluated, but only the top abstracts will have their presentations evaluated.

The MARC-ACSM Research Committee screens all student abstracts that are submitted for an oral presentation using a rubric. The top five ranked abstracts for each academic category identified above present their research during an oral session with the other class finalists (i.e. there is an UG Award Nominee Session, MS Award Nominee Session, and a Ph.D. Award Nominee Session) during the MARC-ACSM Annual Meeting. These finalists are ranked by a subcommittee of the MARC-ACSM Research Committee to determine the award recipients.

The 2019 award winners (and honorable mentions) will be announced at the Business Meeting and Award Ceremony Luncheon on Saturday at 12:30 pm.

The Research Committee is chaired by **Devon Dobrosielski**, **Ph.D.**, **FACSM** from Towson University.

The MARC-ACSM Executive Board would like to extend our thanks to those who served on the 2019 Research Committee. We appreciate your hard work and support!

STUDENT FUND RAFFLE:

Each year the MARC-ACSM Student Representative conducts a raffle where a variety of prizes (e.g., textbooks, etc.) are awarded throughout the meeting. Tickets can be purchased outside of Ballroom (Salon) C, D, E. All proceeds from the student raffle are used to support our student representative's trip to the National ACSM Annual Scientific meeting.

EVALUATION FORMS:

Evaluation forms will be sent via an electronic survey approximately 1 week following the conference. Your feedback is extremely important, as this information will be used in the planning of future meetings and conferences.

SPEAKER READY ROOM:

The Speaker Ready Room will be in the Hemlock Room (last room on the first floor).

<u>Friday Presentations</u>: Please bring a USB storage device with your oral presentation to the speaker ready room (Hemlock Room)before 10 AM on Friday November 1st, 2019 to have it loaded on the proper computer for your afternoon presentation.

<u>Saturday Presentations</u>: Please bring a USB storage device with your oral presentation to the speaker ready room (Hemlock Room) before 3 PM on Friday, November 1st, 2019 to have it loaded on the proper computer for your presentation.

2019 MARC-ACSM Keynote Speaker Michael Joyner, MD



Mayo Clinic

Professor of Anesthesiology

- Department of Anesthesiology and Perioperative Medicine
- Department of Physiology & Biomedical Engineering

Vice Chair for Research.

Department of Anesthesiology and Perioperative Medicine

Michael J. Joyner, M.D., is the Caywood Professor of Anesthesiology at Mayo Clinic where he was named Distinguished Investigator in 2010. His research focuses on exercise physiology, human performance, blood pressure regulation, metabolism, and transfusion practices. He is also interested in the limits of scientific reductionism and the de-hyping of biomedical communications. The latter interest has led to a number of thought provoking and critical essays on the so-called Precision Medicine narrative in the popular press and key scientific journals. Professor Joyner attended the University of Arizona where he graduated with a B.S. in 1981 and an M.D. in 1987. After

leaving Arizona he completed his residency training in anesthesiology at the Mayo Clinic in 1993 and then developed an independent research laboratory that has been funded by NIH since that time. His former fellows have established research programs at leading institutions throughout the world and he has held leadership positions at Mayo, in the extramural research community, and with leading journals.

Dr. Joyner will present "The 2-Hour Marathon" At 7:15pm on Friday evening

MARC-ACSM 2019 Annual Meeting Speakers

(Listed in alphabetical order)

Alhassan, Sofiya, Ph.D.



Sofiya Alhassan, Ph.D. is an Associate Professor in the Kinesiology Department at the University of Massachusetts. Her research focuses on implementing physical activity for the prevention of pediatric obesity and the improvement of cognitive outcomes. In particular, the utilization of community family-based physical activity interventions to improve obesity-related health behaviors and cognitive health in children of color. Her research agenda also includes examining 1) physical activity policy-based intervention in preschool-age children; 2) environmental influences on various health behaviors in children of color, and 3) after-school family-based intervention to improve physiological and psychosocial, and academic performance of pre-adolescent children of color. Dr. Alhassan's research in preschool-age

children has been primarily funded by Robert Wood Johnson Foundation, and her research in preadolescent children have been funded by NIH. Her work has been published in top tier peer-review journals and has been presented at both national and international conferences.

Arent, Michelle, MPH



Michelle Arent received both her Bachelor's degree and Master of Public Health degree from the University of South Carolina. Michelle is a Certified Strength and Conditioning Specialist (NSCA CSCS), Certified Sports Nutritionist (CISSN), Certified Sports Performance Coach (USA Weightlifting) as well as a kettlebell instructor. She is the former Director of Training and Conditioning at Rutgers Center for Health and Human Performance and served as head strength and conditioning coach and head Sport Nutritionist for Rutgers Women's Soccer. She is currently employed by the University of South Carolina's Department of Health Promotion, Education, and Behavior as the training coordinator for their statewide

Health Literacy Initiative.

Arent, Shawn, Ph.D.



Shawn M. Arent, PhD, CSCS*D, FISSN, FACSM is Professor and Chair of the Department of Exercise Science at the University of South Carolina and is the Director of the U of SC Sport Science Lab. His research focuses on the relationship between physical activity and stress and the implications for health, performance, and recovery. He was named the 2017 William J. Kraemer Outstanding Sports Scientist of the Year by NSCA. He is a fellow in ACSM and

ISSN and is the current President of ISSN. Additionally, he has worked with teams in the NHL, MLB, the US Soccer Federation, and a number of teams at the youth, high school, and collegiate levels.

Augustine, Jacqueline, Ph.D.



Dr. Augustine graduated with a Bachelor of Arts from The College of the Holy Cross where she studied biology-psychology. She then attended Syracuse University where she completed both a Masters in Exercise Science and a Doctorate in Science Education/Exercise Science. Dr. Augustine's research focuses on sex differences in the cardiovascular response to exercise and the impact of excessive exercise on cardiovascular function. In particular, Dr. Augustine has studied the effects of the menstrual cycle, and endurance exercise on arterial stiffness and examined sex differences in cardiac and arterial physiology in avid marathon runners. Dr. Augustine is currently a tenure-track Assistant Professor in the Kinesiology Department at SUNY Cortland in Cortland, NY.

Barone Gibbs, Bethany, Ph. D.



Dr. Bethany Barone Gibbs is an Associate Professor in the Department of Health and Physical Activity, and Clinical and Translational Science at the University of Pittsburgh. She trained in cardiovascular epidemiology and studies the prevention and treatment of obesity and cardiometabolic disease through healthy lifestyle behaviors. Her interests include population and intervention studies of physical activity, sedentary behavior, and eating habits as they related to hypertension, subclinical cardiovascular disease, diabetes, and obesity. Most recently, her research has focused on sedentary behavior as a risk factor, independent from moderate-to-vigorous intensity physical activity. These sedentary behavior studies have evaluated measurement and methods, longitudinal associations in

cohort studies, and intervention methods to decrease sedentary behavior.

Barreira, Tiago, Ph. D.



Tiago Barreira is an expert in objective measurement of human physical behaviors (sleep, sedentary behavior, and physical activity), more specifically in the use of accelerometers and pedometers. His research has focused on four main objectives related to the measurement of human physical behavior: (1) establishing validity and reliability evidence of human physical behavior measurement tools (i.e., questionnaires, pedometers, accelerometers), (2) determining how to use those measurement tools to obtain reliable and accurate information on behavior patterns, (3) investigating the relationship between behaviors and cardiovascular disease risk factors, and (4) the use of measurement tools as a motivation to promote improvements in physical behaviors.

Broglio, Steven, Ph.D.



Steven Broglio is a Professor of Kinesiology, Neurology, and Physical Medicine and Rehabilitation at the University of Michigan in Ann Arbor. Dr Broglio completed his training at the University of Georgia, followed by his first faculty position at the University of Illinois at Urbana-Champaign. He been at the University of Michigan since 2011. At Michigan, Dr. Broglio is the Director of the Michigan Concussion Center and the NeuroTrauma Research Laboratory where he oversees clinical care, educational outreach, and multi-disciplinary research aimed at fundamental questions on concussion prevention, identification, diagnosis, management, and outcomes. His research has been supported by numerous foundations and federal funding agencies, resulting in over 125 peer reviewed works. Dr Broglio is a co-PI on the CARE Consortium, the largest

prospective investigation of concussion ever conducted.

Chaudhari, Ajit, Ph. D.



Dr. Chaudhari's research focuses on the basic question: Can we better understand how movement-related injuries and diseases happen by studying the human body as a mechanical system? He is interested in the role of core stability in the prevention and treatment of injuries across the entire body, the mechanisms behind overuse running and throwing injuries, and the effects of chemotherapy, osteoarthritis, total knee arthroplasty and aging on gait and balance. He's been a professor at Ohio State since 2006.

Cook, Summer, Ph.D.



Dr. Summer Cook is an associate professor in the Department of Kinesiology at the University of New Hampshire. She earned her BS in Exercise Science from East Stroudsburg University and her MS and PhD from Syracuse University. Her research focuses on neuromuscular function, resistance training and aging. She has been a researcher in the area of blood flow restricted exercise for almost 20 years and has been awarded grant funding from the National Institutes of Health, National Aeronautics and Space Administration, and the American College of Sports Medicine (ACSM). She has an established publication record that includes several manuscripts regarding neuromuscular function during and after blood flow restricted exercise and

as well as studies reporting the adaptations to blood flow restricted training in various populations. Dr. Cook was awarded the New Investigator Award from ACSM in 2015. Dr. Cook maintains a productive research agenda with the help of her undergraduate and graduate students. She has mentored over 50 students with many of them winning prestigious university or professional awards. Dr. Cook also serves as the Vice Chair of the University of New Hampshire Institutional Review Board and facilitates the Responsible Conduct of Research Training at the University of New Hampshire. Dr. Cook has been an active member within the ACSM since 2000 as she was the MARC student representative, chair of the Student Affairs Committee, Student Representative on the Board of Trustees, the New Hampshire State Representative for the New England Chapter of ACSM, and a member at large of the New England Chapter of ACSM. She is currently a member of the ACSM Strategic Health Initiative on Aging.

Dankel, Scott, Ph.D.



Scott is originally from Howell, New Jersey and began his career with a B.A. in Health and Physical Education. He began teaching Health and Physical Education classes to Elementary, Middle and High School students in South Jersey, before working at a sports performance facility for student athletes. He has spent the last five years studying at The University of Mississippi under Dr. Jeremy Loenneke where he earned his M.S. in Exercise Science and Ph.D. in Health and Kinesiology. He has recently moved back to New Jersey and is beginning his first year as an assistant professor within the Health & Exercise Science department at Rowan University where he primarily teaches courses related to Exercise Physiology. In addition to teaching, Scott has several research

interests, most of which examine adaptations that occur in response to various resistance exercise interventions. He has published numerous studies examining blood flow restricted exercise, with a focus on how manipulating different variables alters the applied stimulus and subsequent adaptations. Additionally, Scott recently completed his dissertation examining whether individuals respond differently to the exact same resistance exercise after accounting for the degree of random error present. In his free time, Scott enjoys fishing, watching sports, and brewing beer.

Davis, Paul, Ph.D.



Paul earned his doctoral degree from the University of Maryland, School of Public Health, Department of Kinesiology where he placed major emphasis on the study of occupational fitness requirements and the quantification of work physiology. His dissertation on the energy costs and oxygen/lactate kinetics of structural firefighting was the first published study of its kind. He has consulted a number of law enforcement organizations including the NYPD, DEA, US Secret Service Agency, Pennsylvania State Police, US Marshalls Service, IAC, and the FBI. Projects of note have included the development of job-related physical performance and medical standards for a number of law enforcement agencies.



Dr. John DiFiori is Chief of the Primary Sports Medicine Service and Attending Physician at Hospital for Special Surgery. Prior to HSS, Dr. DiFiori was Chief of the UCLA Division of Sports Medicine and Non-Operative Orthopaedics. He was Head Team Physician for the UCLA Department of Intercollegiate Athletics, overseeing the care of more than 650 athletes in 24 NCAA sports. He spent more than 15 years on the sidelines with the Bruins football and basketball teams. Dr. DiFiori's expertise in treating sports injuries in competitive athletes is internationally recognized. He serves as the Director of Sports Medicine for the NBA, where he is involved with the League's research initiatives, and the development and implementation of all policies related to

player health and safety. He has also been appointed to the FIBA (international basketball federation) Medical Commission where he serves to work with basketball federations across the world in setting standards for player health. Dr. DiFiori has served as a medical consultant for the NHL Players Association. He has also served for the USOC as a US team physician for several international competitions, including for US Soccer, USA Basketball, and the XIII Pan American Games.

Garber, Carol Ewing, Ph.D.



Carol Ewing Garber is Professor of Movement Sciences and Education and Chair of the Department of Biobehavioral Sciences at Teachers College, Columbia University, where she also serves as the Director of the Graduate Program in Applied (Exercise) Physiology and Director of the EXerT Clinic for Exercise Prescription. She is a clinical exercise physiologist who studies the benefits of exercise in the prevention and treatment of chronic diseases across the lifespan—from toddlers to older adults—and her work targets people livening in low-resourced communities. Professor Garber is a past President of the American College of Sports Medicine and the New England Chapter of the American College of Sports Medicine. She is a recipient of the 2019 ACSM Citation Award. She received her BS, MA, and PhD from the University of

Connecticut. She is the author of over 130 published articles and book chapters In her spare time, Dr. Garber sings with the Cecilia Chorus of NYC where she can be seen on stage at Carnegie Hall, and she is an avid Pilates practitioner, urban bicyclist and wilderness backpacker.

Glancy, Brian, Ph.D.



Brian graduated with a B.A. in Sport Science from the University of the Pacific prior to receiving a Master's degree in Kinesiology and a Ph.D. in Exercise Science from Arizona State University working with Wayne Willis. He was a postdoctoral fellow with Robert Balaban at the National Heart, Lung, and Blood Institute from 2009 to 2016. Dr. Glancy became an Earl Stadtman Investigator at the NIH with a dual appointment between NHLBI and NIAMS in 2016. He is a member of the American College of Sports Medicine and the American Physiological Society.

Goulopoulou, Stella, Ph.D.



Dr. Stella Goulopoulou is an Assistant Professor in the Department of Physiology and Anatomy at the University of North Texas Health Science Center. Dr. Goulopoulou's research training and career has always been concentrated on cardiovascular physiology. She received her MS in Exercise Science and PhD in Exercise Physiology and Science Education from Syracuse University. At the end of her graduate studies, she transitioned from the field of applied human physiology to basic science research and trained in Vascular Physiology and Biology as a postdoctoral fellow in Augusta University. In 2014, she moved to Fort Worth, Texas to join the faculty at the University of North Texas Health Science Center, where she has established a vascular physiology laboratory with a focus on women's cardiovascular health and particular emphasis on maternal vascular physiology

during pregnancy and postpartum. The goals of her research program are: 1) To determine the mechanisms linking placental dysfunction with maternal vascular dysfunction in pregnancies with preeclampsia, 2) To determine the role of pregnancy complications in maternal risk for future cardiovascular disease, 3) To develop therapeutic interventions that can be safely administered during pregnancy in order to prevent maternal cardiovascular complications during pregnancy and postpartum. Dr. Goulopoulou has published over fifty peer-reviewed manuscripts, book chapters, and invited reviews and her laboratory is funded by the American Heart Association and intramural grants.

Guest, Nanci, Ph.D., RD



Dr. Guest is a registered dietitian (sport specialty), certified personal trainer and a certified strength and conditioning specialist, and she has been working in private practice in this field for two decades. Her doctoral research focused on caffeine, genetics and athletic performance, at the University of Toronto, where she also received the 2019 Dr. Michael C. Archer Award for Research Excellence. She continues to do research in this area in her post-doctoral fellowship also at the University of Toronto. She completed her BSc/MSc degrees in agriculture and dietetics, and nutritional sciences with a sport focus at the University of British Columbia. Dr. Guest has published her research in top journals and given dozens of invited talks around the world. She is a global consultant to professional & amateur

athletes and teams and teaches college-level sport nutrition courses. She was the Head Dietitian at the Vancouver 2010 Olympics and the Toronto 2015 Pan Am games and helped to prepare several athletes for the London, Sochi, Rio and PyeongChang Olympics. She has been offering genetic testing for personalized sport nutrition in her Toronto-based private practice for 7 years.

Hicks, Steve, Ph. D.



Dr. Hicks is a physician scientist at the Penn State College of Medicine. As a general pediatrician he cares for children with concussion in an acute outpatient setting. As a clinical researcher he studies the body's molecular response to traumatic brain injury. His research program aims to harness epigenetic findings to transform the way clinicians recognize and treat concussions. A major focus of his research is saliva microRNA. His research on saliva RNA profiles in adolescents with prolonged concussion symptoms was among the most-read articles in JAMA Pediatrics for 2018. The results of that study were featured on National Public Radio and CBS news. Dr. Hicks was the recipient of the "2018 Distinguished Young Investigator Award", and the

"Investigator to Watch Award" from the Penn State College of Medicine.

Harwood, Marc, MD



Dr. Harwood is a board certified non-operative sports medicine physician and serves as the Service Chief of the Non-Operative Sports Medicine Department at Rothman Orthopedic Institute. He is currently a team physician for the Philadelphia Phillies - a position he has held since 2005. He currently serves as the Vice President of the Major League Baseball Team Physicians Association. He also serves as a team physician for the St. Joseph's University NCAA Division 1 athletic program. He is a sports medicine consultant for several local high schools, in addition to caring for elite level dancers at the Rock School of Dance Education, University of the Arts, BalletX, and the Pennsylvania Ballet.

He is a consultant to Athletes and the Arts and has been an active member on the International Association of Dance Medicine and Science's research committee.

Hong, Gene, MD



Dr. Eugene Hong is a primary care sports medicine physician, is board certified in both sports medicine and family medicine and currently serves as the Chief Physician Executive at the Medical University of South Carolina. He enjoys working with active people of all ages/abilities at all levels as well as operating as the team physician/consultant for many high-level programs. He has served as the team physician for Saint Joseph's University Head team physician, Drexel University Head team physician, Philadelphia University Team physician, U.S. U19 Women's National Lacrosse Team physician, US U19 Men's National Lacrosse Team Philadelphia Marathon. His research and experience include work in the areas of: musculoskeletal ultrasound, both diagnostic and therapeutic; ultrasound-guided interventional

procedures; platelet rich plasma; percutaneous tenotomy; viscosupplementation and hyaluronic acid injections; joint injections; tendon injections; and computerized neurocognitive testing for sports related concussions. Finally, he served as the Medical Liaison to the MARC-ACSM Board for 10 years, he is a former Past-President of MARC-ACSM and he was instrumental in revising the MARC Board to include a Physician-at-Large position. Under his guidance and vision, the Medical Session (usually in the Pennsylvania room) has grown from a small interest group to a major part of the MARC-ACSM Annual Meeting. Welcome home Gene!

Horn, Gavin, Ph.D.



Gavin Horn is a Research Engineer with the UL Fire Safety Research Institute (FSRI). Gavin's research interests range from firefighter health and safety and first responder technology development to material testing and nondestructive evaluation. Prior to joining the UL FSRI team, he served as the Director of IFSI Research Programs at the University of Illinois Fire Service Institute (IFSI) for 15 years and as a firefighter/engineer with the Savoy (IL) Fire Department. Gavin holds a PhD in Mechanical Engineering from the University of Illinois at Urbana-Champaign as well as a ME in Fire Protection Engineering from the University of Maryland. He has

published over 70 peer-reviewed journal manuscripts and given presentations at meetings, conferences and symposia around the world.

Ingram, Catherine, MSPT



Cathy completed her undergraduate degree in Biology at Bucknell University. She received her Master's degree in Physical Therapy from Boston University in 1988. Cathy started her working career in Los Angeles, CA where she worked in a variety of orthopedic settings. She started to specialize in spine rehab and worked privately with professional golfer Seve Ballesteros as his personal physical therapist. She was an adjunct professor in the PTA program at Mount Saint Mary's College for 4 years. Cathy began working for Lancaster General Hospital in 2002. The first 15 years at the Suburban Outpatient Pavilion as a Level III Senior Therapist and the past 3 years at the Women's and Babies Hospital Specialty PT clinic as a pelvic and women's health therapist. Cathy has been an integral team member contributing to the

development of a Lumbar Spine Program, Cervical Spine Program and Fibromyalgia Program. She is cochair of a Chronic Pain clinical excellence team and a member of the lumbar spine, cervical/headache and pelvic health clinical teams. In the last 10 years, Cathy has focused her continuing education on neuromuscular re-education training and manual therapy techniques through the Postural Restoration Institute (PRI) and Herman and Wallace Institute. Cathy enjoys playing competitive tennis and golf and has an interest in personal fitness and sports athletic performance training.

Jenkins, Nate, Ph.D.



Dr. Jenkins received his undergraduate at Messiah College in Mechanicsburg, PA and received his Masters and PhD at The University of Nebraska Lincoln. He has been an active member of MARC-ACSM, National ACSM and the National Strength and Conditioning Association. In 2018, he received the Housh Outstanding Young Investigator Award from the NSCA. Dr. Jenkins studies and publishes in the areas of the non-invasive assessment of neuromuscular function and motor unit behavior; acute and chronic neuromuscular responses to resistance training; the effects of age on neuromuscular function; and the effects of nutrition and dietary supplementation on health and human performance across the age-span.

Jenny, Seth, Ph.D.



Seth E. Jenny, Ph.D., ACSM-EP, teaches within the Department of Public Health at Slippery Rock University of Pennsylvania. Formerly, he taught within the Department of Physical Education, Sport and Human Performance at Winthrop University and the Department of Health, Exercise and Sports Sciences at the University of New Mexico. Prior to working within higher education, Dr. Jenny was a U.S. Air Force exercise physiologist and K-12 health and physical education teacher. As a scholar and researcher, Dr. Jenny has provided nearly 100 professional presentations and published over 40 peer-reviewed academic journal articles within his prime areas of research – eSports, motion-based video gaming, and elementaryage distance running. He has consulted for *ELEAGUE* (TBS's professional televised eSports league), co-created the first undergraduate major in eSports sport science

(Shenandoah University), and currently is the "Sports Performance Advisor" for *The Meta* – an eSports start-up company based in San Francisco. Moreover, Dr. Jenny was an invited speaker at the first academic eSports conference (University of California, Irvine), has written a chapter titled "eSports

Science and Player Performance" in the first academic eSports textbook (to be released soon), and recently was an invited keynote speaker at the 2019 American Medical Society for Sports Medicine (AMSSM) Annual Conference discussing "eSports and the Sports Medicine Physician." As lead author, he is currently co-writing a textbook titled "Technology for Physical Educators, Health Educators, and Coaches: Enhancing Instruction, Assessment, Management, Professional Development and Advocacy" with the book publisher Human Kinetics (to be released April 2020).

Joyner, Michael J., M.D.



Michael J. Joyner, M.D., is the Caywood Professor of Anesthesiology at Mayo Clinic where he was named Distinguished Investigator in 2010. His research focuses on exercise physiology, human performance, blood pressure regulation, metabolism, and transfusion practices. He is also interested in the limits of scientific reductionism and the de-hyping of biomedical communications. The latter interest has led to a number of thought provoking and critical essays on the so-called Precision Medicine narrative in the popular press and key scientific journals. Professor Joyner attended the University of Arizona where he graduated with a B.S. in 1981 and an M.D. in 1987. After leaving Arizona he completed his residency training in anesthesiology at the Mayo Clinic in 1993 and then developed an independent research laboratory that has been funded by NIH since that time. His former fellows have established research

programs at leading institutions throughout the world and he has held leadership positions at Mayo, in the extramural research community, and with leading journals.

Kerrigan, Dan, MS



Dan Kerrigan, MS, EFO, CFO is Chief of Fire and Emergency Services for Upper Providence Township, Montgomery County, PA and co-author of the best-selling book Firefighter Functional Fitness. A 33-year veteran of the fire service, Dan is a certified peer fitness trainer, ACE Group Fitness Instructor, and he serves as an atlarge director on the International Association of Fire Chiefs Safety, Health and Survival section board of directors. He is a staunch firefighter health and wellness advocate and international speaker on the topic. Contact him at dankerrigan911@gmail.com. Follow him on Twitter @dankerrigan911 & @firefighterFFit

Kim, Joon Young, Ph.D.



Joon Young Kim, Ph.D., is an assistant professor in the Department of Exercise Science at Syracuse University. He is a patient-oriented researcher with specific focus on childhood obesity, metabolism and type 2 diabetes. He earned a doctorate degree in the Kinesiology/Exercise Physiology program at Arizona State University. He had pursued his patient-oriented research during his post-doctoral training in the Center for Pediatric Research for Obesity and Metabolism at UPMC Children's Hospital of Pittsburgh, and he was funded by NIH/NIDDK T32 postdoctoral training grant for 2017-2019 in the Division of Endocrinology and Metabolism at University of Pittsburgh School of Medicine. His research has focused on 1) identification of novel phenotypic biomarkers and genetic targets of obesity and type 2 diabetes, 2)

pathophysiology of prediabetes and type 2 diabetes in obese youth vs. adults, 3) genetic contributions (i.e., SNPs) to the emerging biomarkers of type 2 diabetes, and 4) interaction effects of genetic component and physical activity on cardiometaboloic traits. He has had multiple peer-reviewed publications in high impact journals including Diabetes Care, Diabetes, and the Journal of Clinical Endocrinology & Metabolism. His recent highlighted publications are "Adipose Tissue Insulin Resistance in Youth on the Spectrum From

Normal Weight to Obese and From Normal Glucose Tolerance to Impaired Glucose Tolerance to Type 2 Diabetes (Diabetes Care, 2019;42:265)", "The Shape of the Glucose Response Curve during an Oral Glucose Tolerance Test: Forerunner of Heightened Glycemic Failure Rates and Accelerated Decline in β-cell Function in TODAY (Diabetes Care, 2019;42:164)", and "Impaired Lipolysis, Diminished Fat Oxidation and Metabolic Inflexibility in Obese Girls with Polycystic Ovary Syndrome (J Clin Endocrinol Metab. 2018;103:546)".

Kuzmiak-Glancy, Sara, Ph.D.



Sarah Kuzmiak-Glancy is an Assistant Professor in the Department of Kinesiology at the University of Maryland. Dr. Glancy received her B.S. from Rutgers University and her Ph.D. from Arizona State University, and she completed postdoctoral training at the George Washington University and the National Heart, Lung, and Blood Institute at NIH. Dr. Glancy's research focuses on determining how cardiac mitochondrial energy production is exquisitely matched to energy demand and how this coordination is altered in disease. Specifically, she is interested in disentangling when mitochondrial dysfunction is a product of an altered environment and when it is a function of intrinsic changes within the mitochondria. Dr. Glancy is a member of the American Physiological Society and the American College of Sports Medicine. Additionally, Dr.

Glancy is President of the Greater Washington DC Chapter of the American Physiological Society.

Landers-Ramos, Rian, Ph.D.



Rian Landers-Ramos, Ph.D. is an Assistant Professor of Exercise Science in the Department of Kinesiology at Towson University (TU). Her research focuses on the effects of acute and chronic exercise on novel cardiovascular risk factors across the lifespan and how these are related to vascular function. Prior to joining the faculty at TU, she completed her postdoctoral training at the University of Maryland School of Medicine and the Veterans Affairs Medical Center. She received her Ph.D. in Kinesiology from the University of Maryland in College Park. Her doctoral and postdoctoral work involved the effects of cardiovascular diseases and physical inactivity on circulating angiogenic cells (CACs), endothelial microparticles (EMPs) and inflammatory cytokines.

Loenneke, Jeremy, Ph.D.



Dr. Jeremy Loenneke is an Assistant Professor of Exercise Science at The University of Mississippi within the School of Applied Sciences. He received his MS in Nutrition and Exercise Science from Southeast Missouri State University and his PhD in Exercise Physiology from the University of Oklahoma. He is the director of the Kevser Ermin Applied Physiology Laboratory and his research group's primary focus is on skeletal muscle adaptations to exercise with and without the application of blood flow restriction. His recent work has answered several important methodological and safety questions with respect to applying blood flow restriction. Dr. Loenneke is a Fellow of the American College of Sports Medicine and a member of the American Physiological

Society. He has authored over 250 peer-reviewed articles and currently serves on the editorial board for Sports Medicine, PLOS One, and the Journal of Trainology

Neville, Christopher, Ph.D., PT



Dr Christopher Neville is an Associate Professor in the Department of Physical Therapy Education at Upstate Medical University. He is director of the Motion Analysis Laboratory where he completes research with the Department of Orthopedic Surgery, Department of Physiology, and the Upstate Concussion Center. Dr. Neville teaches in the area of biomechanics, kinesiology, and research methods for the physical therapy program as well as supervising graduate and medical students from across the campus. Ongoing research projects are focused on understanding movement, cognitive, and educational deficits following concussion injury.

Piercy, Katrina, Ph.D., RD



Katrina Piercy is a Physical Activity and Nutrition Advisor in the Office of Disease Prevention and Health Promotion (ODPHP) in the United States Department of Health and Human Services (HHS) and serves as a dietitian officer in the United States Public Health Service Commissioned Corps. Dr. Piercy advises agency and departmental officials on current physical activity and nutrition science to inform policies and programs related to health promotion and disease prevention. She leads the physical activity portfolio within ODPHP, which includes managing dissemination of the recently released *National Youth Sports Strategy* and the expansion of the *Move Your Way* communications campaign to support and encourage more Americans to get the

physical activity they need to stay healthy. She most recently served as the federal lead for the second edition of the *Physical Activity Guidelines for Americans* and coordinated efforts across ODPHP, CDC, NIH, and the President's Council on Sports, Fitness & Nutrition. Her work involved overseeing the 17-member Advisory Committee as they executed an extensive systematic literature review on physical activity and health and compiled their findings into a Scientific Report. She was the lead policy writer to translate the Committee's work into the Guidelines. She previously served as a policy writer and staffed the advisory committee for the 2015-2020 Dietary Guidelines for Americans and was the federal lead managing the *Physical Activity Guidelines Midcourse Report: Strategies to Increase Physical Activity Among Youth.*

Prior, Steve, Ph.D.



Aging and a sedentary lifestyle lead to changes in skeletal muscle and the vasculature that result in insulin resistance and an increased risk for developing type 2 diabetes. This places older adults at substantially greater risk for diabetes-associated cardiovascular disease, microvascular complications, and impaired angiogenesis. My research is focused on conducting exercise intervention studies to determine mechanisms by which the risk for aging-associated vascular impairments and cardiometabolic diseases may be reduced in older adults. My laboratory uses state of the art techniques to assess angiogenesis and skeletal muscle capillarization, as well as in vivo vascular function and glucose metabolism. We have also developed basic

science and cell culture techniques to study the number and function of circulating angiogenic cells that may contribute to improvements in angiogenesis and vascular function in older adults. I am currently funded by the National Institutes of Health and Department of Veterans Affairs for my research examining mechanisms underlying abnormal angiogenesis and vascular dysfunction in aging and age-associated cardiometabolic diseases such as diabetes and peripheral arterial disease, as well as how exercise training may restore normal angiogenesis, metabolism and physical function in these individuals.

Rial, Tamara, Ph.D.



Dr. Tamara Rial is an author, lecturer & researcher with a special interest in pelvic floor fitness for women's health. She earned dual bachelor degrees in exercise science and physical education, a masters degree in exercise science and a doctorate with international distinction from the University of Vigo (Spain). Her dissertation focused on the effects of hypopressive exercise on women's health. Dr. Rial is on the faculty of Herman & Wallace Pelvic Rehabilitation Institute. She is the author of several scientific publictions and books about women's health and fitness. She has also published numerous articles and videos about pelvic floor fitness, hypopressive exercise and core training. She is an internationally recognized speaker and has presented at conferences throughout

Argentina, Canada, Mexico, Portugal and Spain. As an established researcher and practitioner, she continues to collaborate with colleagues at universities and health care settings to explore the effects of hypopressive exercise on health and wellbeing. After creating the certification program called Low Pressure Fitness, Dr. Rial founded Exercise & Women's Health with the mission of educating and empowering women in evidence-based exercise programs.

Ross, Sharon, Ph.D.



Sharon E. Taverno Ross, Ph.D., is an Assistant Professor of Health and Physical Activity in the School of Education with a secondary appointment in the Department of Behavioral and Community Health Sciences in the Graduate School of Public Health at the University of Pittsburgh. Dr. Ross received her Ph.D. in Biobehavioral Health from the Pennsylvania State University where her training under Dr. Lori Francis focused on the biobehavioral mechanisms surrounding the etiology and development of childhood

obesity in low-income, minority populations. Following this, she completed a post-doctoral fellowship under the mentorship of Dr. Russ Pate in the Children's Physical Research Group in the Department of Exercise Science in the Arnold School of Public Health at the University of South Carolina. There, she received training in measurement of physical activity in children and intervention design, implementation, and evaluation. Dr. Ross' research focuses on physical activity promotion and child obesity prevention in children and youth, particularly those of Latino origin. She has served as the PI on federally-funded studies examining the effectiveness of culturally-tailored, home- and community-based intervention programs promoting a healthy lifestyle in Latino children of immigrants and their families.

Serviente, Corinna, Ph.D.



Corinna Serviente is currently a postdoctoral fellow through the Center for Healthy Aging at Pennsylvania State University. She received her bachelor's degree in Clinical Exercise Science from Ithaca College and her Master's degree and PhD in kinesiology from the University of Massachusetts Amherst. Her work has broadly focused on understanding how cardiovascular health changes with menopause and how exercise may or may not mitigate that change in risk.

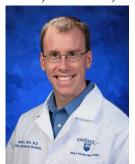
Shenouda, Ninette, Ph.D.



Ninette Shenouda is a Postdoctoral Researcher in the Department of Kinesiology and Applied Physiology at the University of Delaware. Dr. Shenouda completed all of her undergraduate and graduate training at McMaster University (Ontario, Canada), earning her B.S. in Biology and Mathematics, her M.S. in Pediatric Exercise Physiology, and her Ph.D. in Cardiovascular Exercise Physiology. Under the mentorship of Dr. Maureen MacDonald, her dissertation investigated factors regulating endothelial function in healthy young adults, namely the effects of exercise and sex hormones. Dr. Shenouda has since moved to the U.S. where she is

now completing her postdoctoral training with Dr. David Edwards at the University of Delaware. Her interests in the regulation of vascular function have expanded to include the central and cerebral vasculature. Currently, Dr. Shenouda's research examines the relations between aortic hemodynamics, cerebrovascular reactivity, and cognitive function in patients with chronic kidney disease.

Silvis, Matthew, MD



Matthew Silvis, MD graduated from Pennsylvania State University College of Medicine in 2002. He then completed a Family Medicine Residency at Wake Forest University in Winston-Salem, NC. After residency, Dr. Silvis practiced wilderness medicine in rural Wyoming before returning to Wake Forest where he completed a fellowship in primary care sports medicine. Dr. Silvis is currently a Professor in the Departments of Family and Community Medicine & Orthopedics and Rehabilitation at Penn State College of Medicine and Division Chief of Primary Care Sports Medicine. Dr. Silvis also serves as the Vice Chair of Clinical Operations for the Department of Family and Community Medicine and Director of Adult Ambulatory Care for Penn State Health. He serves as team physician for the Hershey

Bears Hockey Club, Lebanon Valley College, and Hershey High School. He has special interests in the care of endurance athletes, exercise, and concussion. An avid outdoorsman, Dr. Silvis enjoys hiking, mountain biking, running, gardening, and photography. He lives in Hershey with his wife, Christine, and their children, Nicholas, Benjamin, and Emory.

Taylor, Beth, Ph.D.



Dr. Taylor is an Associate Professor of Kinesiology at University of Connecticut as well as the Director of Exercise Physiology Research at Hartford Hospital. Her research interests focus on interactions between exercise, aging, cardiovascular disease, and commonly used cardiovascular medications. She has been a principal or co-investigator on several NIH-funded projects involving the pleiotropic effects of statin therapy (cholesterol-lowering drugs) in humans. These projects include investigation of the direct effects of statins on skeletal muscle strength and aerobic performance, the effects of Coenzyme Q10 supplementation on skeletal muscle side effects, and cognitive side effects of statins assessed with functional magnetic resonance imaging. With funding

from the American Heart Association, she is now investigating novel mechanisms to detect statinassociated muscle symptoms so as to improve tolerance and effectiveness of statin drugs. She has also recently been studying the effect of aerobic exercise training on brain volumes and memory function in individuals at risk of Alzheimers Disease. An avid runner herself, Taylor has conducted studies at the Boston and Hartford Marathons to determine the effects of sustained endurance exercise on blood clot risk, markers of cardiovascular injury and stress, and the effects of cholesterol-lowering drugs on these biomarkers.

Witman, Melissa, Ph.D.



Dr. Witman joined the University of Delaware in 2015 as an Assistant Professor in the Department of Kinesiology and Applied Physiology. She pursued her Master's degree at the University of New Hampshire under the mentorship of Dr. David Edwards and specialized in the cardiovascular responses to exercise. She received her doctoral degree from the University of Utah. Under the mentorship of Dr. Russell Richardson in the Utah Vascular Research Laboratory, she studied the relationships between vascular function, exercise-induced hyperemia, and the role of oxidative stress in patients with heart failure and heart transplant recipients. Dr. Witman stayed in Utah for her Postdoctoral Research Fellowship at the Salt Lake City VA Medical Center where she continued to study those with severe heart failure, including those that have received a

left-ventricular assist, in addition to healthy aging and other chronic diseases. Currently, Dr. Witman's work continues to focus on the vasculature and how this changes throughout the lifespan and with various chronic diseases in hopes of improving overall health and quality of life. When not in the laboratory, she enjoys spending time with her family, running, skiing, hiking, and almost any other outdoor activity.

Womack, Christopher, Ph.D.



Chris Womack is a Professor in the Department of Kinesiology at James Madison University, where he has served as a faculty member for 13 years. Prior to that he was an Associate Professor at Michigan State University in East Lansing, MI. He received his Bachelor's degree in Physical Education from James Madison and his Doctorate in Exercise Physiology from the University of Virginia. He also completed a post-doctoral research fellowship at the University of Maryland Medical Center in the Division of Gerontology. He has been a member of ACSM for 30 years and a Fellow since 2001. His main research interests are hematological exercise responses and the role of genetic polymorphisms on exercise performance. The latter interest has sparked a decade-long

series of inquiries into the role of a polymorphism in the CYP1A2 gene on the ergogenic response to caffeine. Chris live happily in Harrisonburg VA with his wife of 20 years, Dawn, and their dog Bam-Bam. He also enjoys spending time with his stepson Landon and daughter-in-law Melanie.

Sessions:

Invited Speakers

Oral Communications

Poster Sessions

	Friday Morning	Salon A
	Exercise, CVD and Women's Health	Moderator
9:00-9:40a	Pregnancy: A Stress Test and a Window of Opportunity for Improving Cardiovascular Health in Women Stella Goulopoulou, PhD	
9:40-10:00a	Cardiovascular Function in Female Marathon Runners Jacqueline Augustine, PhD	Rian Landers-Ramos, PhD
10:00-10:25a	Sex Differences in Novel Circulating Biomarkers for Cardiovascular Disease and Responses to Exercise Rian Landers-Ramos, PhD	

10:25-10:50a Menopause and Aerobic Fitness: Is it Really as Simple as We Think?

Cory Serviente, PhD

10:50-10:55a Questions / Responses

Past President's Lecture (National ACSM)

11:00a-12:00p I am Woman! Perspectives on Woman's Fitness, Health and Sports Participation Across the Lifespan

Carol Ewing Garber, PhD, FACSM

Kevin Heffernan, PhD



Stella Goulopoulou, PhD



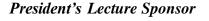
Jacqueline Augustine, PhD



Rian Landers-Ramos, PhD



Cory Serviente, PhD







Carol Ewing Garber, PhD, FACSM

	Friday Morning	Salon B
	Caffeine and Exercise	Moderator
9:00-9:05a	Opening Remarks Eric Rawson, PhD, FACSM	
9:05-9:40a	Caffeine, Genetics and Athletic Performance Nanci Guest, PhD, RD, CSCS	Eric Rawson,
9:40-10:15a	Caffeine's Effect on Neuromuscular Function: From the Brain to Skeletal Muscle Nate Jenkins, PhD, CSCS, *D, NSCA-CPT, *D	PhD, FACSM
10:15-10:50a	Caffeine and Aerobic Exercise Chris Womack, PhD	

Endothelial Function

Brachial Flow Mediated Dilation to Assess Endothelial 11:00-11:30a Function: You Con-du-it. NO Movement Necessary

Ninette Shenouda, PhD

Stephen Ives, PhD

11:30-12:00p Waive Your Legs in the Air Like You Just Don't Care: Passive Leg Movement to Assess Peripheral Vascular Function

Melissa Witman, PhD



Nanci Guest, PhD, RD, CSCS



Nate Jenkins, PhD, CSCS, *D, NSCA-CPT, *D



Chris Womack, PhD, FACSM



Ninette Shenouda, PhD



Session Sponsor





Melissa Witman, PhD

	Friday Morning	Salon C,D,E
	Blood Flow and Exercise	Moderator
9:00-9:35a	21 years of Blood Flow Restriction Training: A Coming of Age Jeremy Loenneke, PhD, FACSM	
9:35-10:10a	Optimizing Blood Flow Restricted Resistance Training Protocols for Older Adults Summer Cook, PhD, FACSM	Jordan Patik, PhD
10:10-10:45a	The Application of Blood Flow Restriction in Clinical Populations Scott Dankel, PhD, FACSM	
10:45-10:50a	Question and Responses	
	Muscle Metabolism	

11:00-11:30a Deconstructing Mitochondrial Energetics in the Healthy and Failing Hearts

Sarah Kuzmiak-Glancy, PhD

mitoRACE: Evaluating Mitochondrial Function in vivo and in Single Cells with Subcellular Resolution

T. Bradley Willlingham, PhD

John Guers, PhD

11:30-12:00p Sustaining Power: Building Energy Networks in Striated Muscle Cells

Brian Glancy, PhD



Jeremy Loenneke, PhD, FACSM



Summer Cook, PhD



Scott Dankel, PhD



Sarah Kuzmiak-Glancy, PhD



T. Bradley Willingham, PhD



Brian Glancy, PhD

	Friday Morning	Pennsylvani
	Clinical Track: Invited Speakers	Moderato
8:25-8:30a	Welcome and Introductions to the Session Jennifer Payne, MD Cayce Onks, MD	
8:30-9:10a	eSports Sports Medicine: Why You Should Care about Competitive Video Gaming Seth Jenny, PhD	Jennifer Payne, MI
9:10-9:50a	Running Gait Analysis for the Practicing Clinician Matt Silvis, MD	Cayce Onks, MD
9:50-10:30a	Collaboration in Sports Medicine - What is the Role of Sports Medicine in the Evolving Health System? Gene Hong, MD, CAQSM, FAAFP	

10:30-11:10a

Dance Vocabulary and Correlation to Injury *Marc Harwood, MD*

11:10-12:00p

Pediatric Specialization in Sports Medicine John P. DiFiori, MD, FACSM, FAMSSM



Seth Jenny, PhD



Matt Silvis, MD



Gene Hong, MD, CAQSM, FAAFP



Marc Harwood, MD



DOCTOR OF PHYSICAL THERAPY PROGRAM



John P. DiFiori, MD, FACSM, FAMSSM

	Friday Morning	Chestnut/ Dogwood			
	Women's Health	Moderator			
9:00-9:50a	How Does Exercise Impact the Pelvic Floor? Tamara Rial-Rbullido, PhD & Cathy Ingram, MSPT	Tamara Rial-Rbullido, PhD			
	Professional Tutorial				
10:00-10:50a	National Kinesiology Association Nancy Williams, ScD	Nancy Williams, PhD			
Childhood Obesity					
11:00-11:50a	Lifestyle Intervention on Biomarkers of Type 2 Diabetes in Youth Joon Young Kim, PhD	Joohee Im Sanders, PhD			



Tamara Rial-Rbullido, PhD



Nancy Williams, ScD



Cathy Ingram, MSPT



Joon Young Kim, PhD

	Friday Afternoon	Ballroom A
	Statins and Exercise	Moderator
1:00-1:55p	Statin Therapy: Cardiovascular Cure or Muscle Malady? Beth Taylor, PhD	Lacy Alexander, PhD
	Nutrition: Keto Diet	
2:00-2:40p	The PaleoKetoVeganMacroFasting Diet: Stop the Madness Shawn Arent, PhD, FACSM, FISSN, CSCS*D	Sara Campbell, PhD,
2:40-3:25p	Sport Nutrition and the College Athlete: How to Block Out the Noise Michelle Arent, MPH	FACSM
	Concussion Update	
3:30-4:00p	The CARE Consortium: Findings from a Multi-site Concussion Study Steve Broglio, PhD, FACSM	
4:00-4:30p	Spit Signals: Concussion Insights from Saliva Molecules Steve Hicks, PhD	Thomas Buckley, PhD
4:30-5:00p	Advanced Movement and Cognitive Testing in Concussion Injury: Can New Tests Add Insight? Christopher Neville, PhD	



Beth Taylor, PhD, FACSM



Shawn Arent, PhD, FACSM, FISSN, CSCS*D



Michelle Arent, MPH



Steve Broglio, PhD, FACSM



Steve Hicks, PhD



Christopher Neville, PhD

Friday Afternoon	Ballroom B
NIH Physical Activity Lecture	Moderator
Moving More and Sitting Less: What You Need to Know About the New Physical Activity Guidelines for Americans Katrina Piercy, PhD, RD	Katrina Piercy, PhD, RD
Physical Activity	
Learning from Our Successes and Failures in Preschool Center-based Physical Activity Interventions: Teachers Matter! Sofiya Alhassan, PhD, FACSM	
Interventions to Promote Physical Activity in Latino Preschool Children Sharon Ross, PhD	Katrina Piercy, PhD, RD
Measurement of Activity Behaviors: Sleep, Sedentary Time and Physical Activity Tiago Barreira, PhD	
Interventions to Sit Less Bethany Barone Gibbs, PhD	
Aging	
Aging Associated Declines in Capillarization: Effects on Metabolism, Fitness and Function Steve Prior, PhD	Steve Prior, PhD
	Moving More and Sitting Less: What You Need to Know About the New Physical Activity Guidelines for Americans Katrina Piercy, PhD, RD Physical Activity Learning from Our Successes and Failures in Preschool Center-based Physical Activity Interventions: Teachers Matter! Sofiya Alhassan, PhD, FACSM Interventions to Promote Physical Activity in Latino Preschool Children Sharon Ross, PhD Measurement of Activity Behaviors: Sleep, Sedentary Time and Physical Activity Tiago Barreira, PhD Interventions to Sit Less Bethany Barone Gibbs, PhD Aging Aging Associated Declines in Capillarization: Effects on Metabolism, Fitness and Function



Katrina Piercy, PhD, RD

Session Sponsor:

Syracuse University School of Education

Exercise Science



Sofiya Alhassan, PhD, FACSM



Sharon Ross, PhD



Tiago Barreira, PhD



Bethany Barone Gibbs, PhD



Steve Prior, PhD

	Friday Afternoon	Salon C			
Poster Session: Undergraduate					
	Cardiovascular, Renal & Respiratory Physiology				
1:00-1:10p P-1	Sex Differences in Endothelial Progenitor Cells and Circulating Endothelial Cells in Response to Acute Exercise Ian Imery ^{1,2} , Dakota Siok ¹ , Urvi Patel ¹ , Sarah Syme ¹ , Kailyn Gates ¹ , Elizabeth Boyle ¹ , Elizabeth Dalton ¹ , Kathleen Dondero ¹ , Rian Q. Landers-Ramos ¹ . ¹ Towson University, Towson, MD, ² Johns Hopkins University, Baltimore, MD				
1:10-1:20p P-2	Aortic Blood Pressure is Lowered During Active Pill Phase of Oral Contraceptives in Young Females Sarika S. Walia, Lauren E. Eagan, Catalina A. Chesney, Maes A. Zietowski, Sushant M. Ranadive. University of Maryland, College Park, MD				
1:20-1:30p P-3	Effects of Anxiety Symptomology on Subclinical Cardiovascular Disease Risk in Young Women Isabel N. Reedy, Jacob P. DeBlois, Kevin S. Heffernan. Syracuse University, Syracuse, NY.	Sushant Ranadive, PhD			
1:30-1:40p P-4	The Effects of Beetroot Juice Consumption on Cerebrovascular Function during an Orthostatic Stressor Dziana Vertsiakhouskaya ¹ , Hannah Zazulak ¹ , Morgan L. Worley ¹ , Christopher L. Chapman ¹ , Emma L. Reed ¹ , Zachary J. Schlader ^{1,2} , Blair D. Johnson ¹ . ¹ University at Buffalo, Buffalo NY, USA, ² Indiana University, Bloomington, IN	1:00-1:50			
1:40-1:50p P-5	Heart Rate Variability in Response to a 3-day Kumbhaka Pranayama Practice Tara N. Riley ¹ , Daniel B. Houston ² , Sarah Y. Gingrich ³ , Cristina Houston ² , Edward J. Ryan ¹ , Andres E. Carrillo ^{1,4} . ¹ Chatham University, Pittsburgh, PA, ² Mind Tribes, Houston, TX, ³ Create Karma, Lancaster, PA, ⁴ Move-COR, Pittsburgh, PA				
	Clinical Exercise Physiology				
1:50-2:00p P-6	Correlation Between Q-Angle, Arch Index, and Weight Distribution Dependent on Supination and Pronation While Walking Serena A. Sabbagh ¹ , Madeline J. Meloche ¹ , Brandon M. DiChiacchio ¹ , Aislinn M. Roth ¹ , Dr. Rebecca Kudrna ² . ¹ DeSales University, Center Valley, PA, ² Park University, Kansas City, MO				
2:10-2:20p P-7	The Acute Effects of a Weighted Load on Glucose Metabolism Haley Shaffer, Zachary Rollar, Samuel Tomlin, Joohee Sanders, William Braun, FACSM. Shippensburg University, Shippensburg PA	Tim Werner,			
2:10-2:20p P-8	The Effects of a 12-Week Resistance Training Program on Arterial Stiffness in Females: A Pilot Study Joshua E. Nicolas, Thomas K. Pellinger, Colin J. Gimblet, Ateeb Mirza, Austin T. Ortlip, Jessica M. Walter, Timothy J. Werner. Salisbury University, Salisbury, MD	PhD 1:50-2:30			
2:20-2:30p P-9	The Effects of Acute Creatine Supplementation on Arterial Stiffness Colin J. Gimblet, Morgan M. Vance, Meghan Shepherd, Austin T. Ortlip, Timothy Staudmyer, Nabil E. Boutagy, John J. LaManca, Thomas K. Pellinger, Timothy J. Werner. Salisbury University, Salisbury, MD				
2:30-2:40p P-10	Effects of Acute Nitrate Intake on Exhaled Nitric Oxide and Vascular Endothelial Function in Hypoxia Kailee A. Coonan, Wesley K. Lefferts, Kevin S. Heffernan, Syracuse University, Syracuse NY				
2:40-2:50p P-11	Qualitative Analysis of Patient Comments Regarding Adherence to an Exercise Oncology Rehabilitation Program Shaelyn L. Parry ¹ , Travis Yahner ¹ , Karen Wonders ^{2,3} , FACSM, Stephen M. LoRusso ¹ . Saint Francis University, Loretto, PA ² Maple Tree Cancer Alliance, Dayton, OH	Steve LoRusso, PhD 2:30-3:30			
2:50-3:00p P-12	Comparison of Lipoprotein Based Insulin Resistance Score and Traditional Risk Factors in Adolescents with Obesity Natalie A. Gadaleta ¹ , Matthew D. Barberio ¹ , Martin B. Playford ² , Evan P. Nadler ³ , Nehal N. Mehta ² , and Robert J. Freishtat ³ . ¹ George Washington University, Washington, D.C., ² National Institutes of Health, Bethesda, MD, ³ Children's Research Institute, Washington DC				

	Friday Afternoon	Salon C	
	Poster Session: Undergraduate		
Fitness Assessment & Training			
3:00-3:10p P-13	Can Non-Exercise Science Majors Direct an Exercise Program for Children with HFASD? Lillian C. Wozniak, Samantha R. Crane, Adam J. Booth, Jonathan D. Rogers, Christopher Lopata, Marcus Thomeer, Karl F. Kozlowski, Canisius College, Buffalo, NY		
3:10-3:20p P-14	The Effects of Varying Doses of Caffeine on Sports Skill Related Performance and Reaction Time Michael Lingard, Thomas Smith, Canar Morrison, Evan Hooper, Joohee Sanders. Shippensburg University, Shippensburg, PA		
3:20-3:30p P-15	The Effect of a Placebo on the ROTC APFT Test and Performance Perception Cassandra Saunders, Kimberly Williams, Christa Sebeck, Elizabeth McGee, Kelsy Fitzgerald Samuel Forlenza, Joohee Sanders. Shippensburg University, Shippensburg,PA		
	Athlete Care & Clinical Medicine		
3:30-3:40p P-16	Neuromuscular Function in Individuals One Year after Medical Clearance Following Anterior Cruciate Ligament Reconstruction Alexa N. Cardella, Stephen R. Chimeenti, Paul T. Cutrufello The University of Scranton, Scranton, PA	Brock Jensen, PhD 3:30-4:10	
3:40-3:50p P-17	More Than One Personal Risk Factor is Associated with Worse Clinical Outcomes Among Adolescents Following Concussion Abigail Kirschler, Elizabeth Nagle, Aaron Sinnott, Cynthia Holland, Hannah Bitzer, Michael Collins, Anthony Kontos, University of Pittsburgh, Pittsburgh, PA		
3:50-4:00p P-18	Field Based Assessment of Running Metrics Thomas C. Long, Peri Pavicic, Drue T. Stapleton. Rider University, Lawrenceville, NJ		
4:00-4:10p P-19	Individual Factors Influencing Performance on The Tandem Gait Test in Healthy, Physically Active Adults Samantha C. Winters, Orah Gholian, Ashley L. Santo. Towson University, Towson, MD		
4:10-4:20p P-20	Inter-leg Difference in Blood Pressure is Related to the Ankle-brachial Index in Healthy Individuals Karly L. Balon, Rosalyn J. Henzel, Benjamin D.H. Gordon, Michael E. Holmstrup, Brock T. Jensen. Slippery Rock University, Slippery Rock, PA		
4:20-4:30p P-21	Sleep and Dietary Habits in Undergraduate College Students Cindy C. Rullo, Elissa K. Katulka, Felicia R. Berube, Michele N. D'Agata, Melissa A.H. Witman. University of Delaware, Newark, DE		
4:30-4:40p P-22	The Effect of Dietary Sodium Intake on Blood Pressure in Healthy Young Adults Yunshu Yang ¹ , Kamila U Migdal ¹ , Ronald K McMillan ¹ , Joseph C Watso ^{1,3} , Matthew C Babcock ^{1,5} , Austin T Robinson ^{1,2} , Megan M Wenner ¹ , Sean D Stocker ⁴ , William B Farquhar. ¹ ¹ University of Delaware, Newark, DE ^{,2} Auburn University, Auburn, A, ³ University of Texas Southwestern Medical Center, Dallas, TX, ⁴ University of Pittsburgh, Pittsburgh, PA, ⁵ University of Colorado Anschutz Medical Campus, Aurora, CO	Racine Emmons, PhD	
Metabolism & Nutrition		4:10-5:00	
4:40-4:50p P-23	Effects of a Low Carbohydrate Diet Versus a High Carbohydrate Diet on 5-km Running Performance Adam D. Atwell ¹ , Philip J. Prins ¹ , Timothy D. Noakes ² , Gary L. Welton ¹ , Sarah J. Haley ¹ , Noah J. Esbenshade ¹ , Katie E. Scott ¹ , Jacqueline Abraham ¹ , Amy S. Raabe ³ , Jeffrey D. Buxton ¹ , Dana L. Ault ¹ . Grove City College, Grove City, Pennsylvania, ² The Noakes Foundation, Cape Town, South Africa, ³ Youngstown State University, Youngstown, OH		
4:50-5:00p P-24	Effects of Acute Aerobic vs. Resistance Exercise on Glycemic Control Nathaniel J. Helwig and William A. Braun, FACSM. Shippensburg University, Shippensburg PA		

Poster Session: Graduate			
Biomechanics			
1:00-1:10p P-25	Functional Analysis of the Peroneus Longus and Tibialis Posterior Using Over-Stimulation Nathaniel E. Kozyra, Christopher G. Neville, SUNY Upstate Medical University, Syracuse, NY		
	Cardiovascular, Renal & Respiratory Physiology		
1:10-1:20p P-26	The Influence of Sleep on Blood Pressure in Healthy Children Felicia R. Berube, Elissa K. Katulka, Michele N. D'Agata, Melissa A.H. Witman. University of Delaware, Newark, D	Jessica Adams, PhD 1:00-2:00	
1:20-1:30p P-27	The Effect of Urea and Laminar Shear Stress on Endothelial L-arginine Transport Sophie B. Green ^{1,2} , Nicholas V. Chouramanis ¹ , David G. Edwards ¹ . ¹ University of Delaware, Newark, DE 19713. ² Rider University, Lawrenceville, NJ		
1:30-1:40p P-28	Moderate and High Intensity Exercise Differently Affect Arterial Stiffness and Related Circulating MicroRNAs in Men Ryan M. Sapp, Catalina A. Chesney, Lauren E. Eagan, William S. Evans, Evelyn M. Zietowski, Steven J. Prior, James M. Hagberg, FACSM, Sushant M. Ranadive. University of Maryland, College Park, MD		
1:40-1:50p P-29	Endothelial Function is Preserved in Ultra-Marathon Runners Following a 50 km Race Lauren E. Eagan ¹ , Catalina A. Chesney ¹ , Ryan M. Sapp ¹ , Rian Q. Landers-Ramos ² , Odessa Addison ³ , Steven J. Prior ^{1,4} , Sushant M. Ranadive ¹ . ¹ University of Maryland, College Park, MD. ² Towson University, Baltimore, MD, ³ University of Maryland, School of Medicine, Baltimore, MD, & ⁴ Baltimore Veterans Affairs Geriatric Research, Education and Clinical Center, Baltimore, MD		
1:50-2:00p P-30	Renal and Segmental Artery Hemodynamic Response to Mild Hypercapnia Christopher L Chapman ¹ , Paul J Kueck ¹ , Wenjie Ji1, Emma L Reed ¹ , Morgan C Worley ¹ , Hannah Zazulak ¹ , Zachary J Schlader ^{1,2} , Blair D Johnson ¹ . ¹ University at Buffalo, Buffalo, NY, ² Indiana University, Bloomington, IN		
2:00-2:10p P-31	Oral Contraceptives Do Not Affect Exercise Pressor Reflex During Active Pill Phase Sara E. Mascone, Lauren E. Eagan, Catalina A. Chesney, Maes A. Zietowski, Sushant M. Ranadive. University of Maryland, College Park, MD	Melissa Whidden, PhD 2:00-3:00	
2:20-2:30p P-32	Cardiac Responses to β-adrenergic Stimulation and Induced Vasodilation are Similar in Young Male and Female Rats Yuan Liu, Sarah Kuzmiak-Glancy, University of Maryland, College Park, MD		
2:30-2:40p P-33	Circulating extracellular vesicles from dystrophic mice do not alter mitochondrial dysfunction in cardiomyocytes Andrew D. Mitchell, Brittany E. Wilson, Eric R. Muñoz, Kyle T. Shuler, Matthew B. Hudson. University of Delaware, Newark DE		
2:40-2:50p P-34	Changes in Circulating Angiogenic Cell Number and Function During and After an Ultramarathon Katherine I. Kim ¹ , William S. Evans ¹ , Ryan M. Sapp ¹ , James M. Hagberg ¹ , Odessa Addison ^{2,3} , Rian Q. Landers-Ramos ⁴ , Steven J. Prior ^{1,2,3} . ¹ University of Maryland, College Park, MD, ² University of Maryland School of Medicine, Baltimore, MD, ³ Baltimore Veterans Affairs Geriatric Research, Education and Clinical Center, Baltimore, MD, ⁴ Towson University, Towson, MD		
2:50-3:00p P-35	The Impact of Dietary Sodium on Blood Pressure During the Cold Pressor Test Ronald K. McMillan ¹ , Yungshu Yang ¹ , Kamila U. Migdal ¹ , Matthew C. Babcock ^{1,5} , Austin T. Robinson ^{1,2} , Joseph C. Watso ^{1,3} , Sean D. Stocker ⁴ , Megan M. Wenner ¹ , William B. Farquhar ¹ . ¹ University of Delaware, Newark, DE ² Auburn University, Auburn, AL, ³ University of Texas Southwestern Medical Center, Dallas, TX, ⁴ University of Pittsburgh, Pittsburgh, PA, ⁵ University of Colorado Anschutz Medical Campus, Aurora, CO		
3:00-3:10p P-36	The Effects of the Natural and Contraceptive Menstrual Cycle on Autonomic Function in Trained Females Lauren E. White ¹ , Jesse D. Krensel ¹ , Melissa A. Whidden ¹ , Melissa A. Reed ¹ , Evan L. Matthews ² , Meghan G. Ramick ¹ . ¹ West Chester University, West Chester, PA, ² Montclair State University, Montclair, NJ	Brian Larouere, PhD 3:00-4:00	

3:10-3:20p	Calcium Activation of Mitochondrial Respiration is Maintained in Heart Failure Despite Altered Mitochondrial Membrane Potential	
P-37	Harry Z. Li, Jackson W. Durbin, Abdil M. Chowdry, & Sarah Kuzmiak-Glancy, University	
1-37	of Maryland, College Park, MD	
	The Effects of Cocoa Flavanol Supplementation on Endothelial Function and	
3:20-3:30p	Exercise Performance	
P-38	James M. Heilman ^{1,2} , Yunsuk Koh ¹ . ¹ Baylor University, Waco, TX, ² University of	
	Maryland, College Park, MD	
	Investigating the Effects of Dietary Nitrate Supplementation on Coronary and	
	Leg Outcomes in Peripheral Artery Disease: Rationale, Methods, and	
3:30-3:40p	Feasibility	
P-39	Kate Levenberg ¹ , J. Carter Luck ¹ , Amanda Miller ¹ , Danielle Kim ¹ , Andrew Gardner ¹ , Urs Leuenberger ¹ , Matthew Muller ² and David Proctor ^{1,3} . ¹ Hershey Medical Center, Hershey,	
	PA, ² Case Western Reserve University School of Medicine, ³ Penn State University,	
	University Park, PA	
	The Influence of Social Evaluation on Hear Rate Variability and Motor	
3:40-3:50p	Performance: A Study of "Real-Life" Competition	
P-40	Kyle F. Pietro, Michelle E. Costanzo, Ronald N. Goodman, Li-Chuan Lo, Hyuk Oh, Jeremy	
	C. Rietschel, Mark Saffer, Trent Bradberry, Jose Contreras-Vidal, Amy Haufler, Bradley D.	
	Hatfield. University of Maryland, College Park, College Park, MD	
	Environmental & Occupational Physiology Respiratory muscle training for aerobic endurance performance at 3,658m	
3:50-4:00p P-41	altitude.	
r-41	Courtney E. Wheelock, Hayden W. Hess, Dave Hostler. University at Buffalo, Buffalo, NY	
400440	Effects of Precooling on Recreationally Active Individuals During Loaded	
4:00-4:10p	Carriage Foot Marches in Heated Conditions	
P-42	Christopher A. Esposito, Chad A. Witmer, Gavin L. Moir, Matthew M. Miltenberger. East	
	Stroudsburg University of Pennsylvania, East Stroudsburg, PA Simulated Military Operational Stress Negatively Impacts Psychomotor	
	Vigilance and Neurocognitive Biomarkers in Men and Women	
4:10-4:20p	Meaghan E. Beckner ¹ , Brian J. Martin ¹ , William R. Conkright ¹ , Shawn R. Eagle ¹ , Aaron	
P-43	M. Sinnott ¹ , Alice D. LaGoy ¹ , Felix Prossel ¹ , Shawn D. Flanagan ¹ , Anne Germain ¹ , Peter G.	
1-43	Roma ² , Michael N. Dretsch ³ , Christopher Connaboy ¹ , Bradley C. Nindl,	
	FACSM ¹ . University of Pittsburgh, Pittsburgh, PA, ² KBR/NASA Johnson Space Center,	
	Houston, TX, ³ Walter Reed Army Institute for Research, Joint Base Lewis-McCord, WA	
ı	Environmental & Occupational Physiology Influence of Physical Activity and Sedentary Behavior During Pregnancy on	
4:20-4:30p	Labor and Delivery Type	Sophie Green,
P-44	Melissa A. Jones ¹ , Janet Catov ¹ , Kara Whitaker ² , Bethany Barone Gibbs ¹ University of	PhD
	Pittsburgh, Pittsburgh, PA, ² University of Iowa, Iowa City, IA	4:00-5:00
	Cardiovascular Disease Associated with Occupational and Leisure-Time	
4:30-4:40p	Activity: The Physical Activity Health Paradox in the United States	
P-45	Tyler D. Quinn ¹ , Peter Smith ² , Yongsuk Seo ³ , Bethany Barone Gibbs ¹ . ¹ University of	
1	Pittsburgh, Pittsburgh, PA, ² Institute for Work and Health, Toronto, Ontario, ³ Kent State	
	University, Kent, OH Associations of Sedentary Behavior and Moderate-Vigorous Intensity Physical	
4:40-4:50p	Activity with Depressive Symptoms throughout Pregnancy	
P-46	Joshua L. Paley, Bethany Barone Gibbs, University of Pittsburgh, PA	
Fitness Assessment & Training		
į l		
4:50-5:00p	Evaluation of VO2max Criteria in High-Active Trail Runners	
4:50-5:00p P-47		

	Friday	Afternoon	Pennsylvania
		x: Clinical Case Studies sion 1	Moderator
1:15-1:25p	Josep	tal Injury – Football oh M. Andrie : Matt Silvis, MD)	
1:25-1:35p	S_{0}	y — Mountain Biking alih Grice homas Trojian, MD)	
1:35-2:45p	St	ry – Roller Derby even Cetel Sheila Taylor, DO	David Ross, MD &
1:45-1:55p	Shann	y — Age Specific on C. Clemons Andy Getzin, MD)	Jessica Butts, MD
1:55-2:05p	Will	· Ice Hockey/Mountain Bik iam A. Rieck tasha Romanoski, MD)	ing
2:05-2:15p	Rebecca M. I	njury in the Ocean King, Giselle A Aerni ark E. Lavallee, MD)	
		ter Session 15-2:35p	
	l Leg Injury - Handball ID (Sponsor: Christine Persaud, MD)	Neck Injury – Motor Briana N. Fedorko and	
Jordan J. Cohen, Br	ty Injury – Women's Soccer adley Sandella, DO, ATC, Sheila onsor: Andrew Reisman, MD)	Knee Injury - M O Neil Singhani (Sponsor: Mo	
Two Heads t	o Tango-Tango Dancing (Sponsor: Thomas Trojian, MD,	Not Your Average T <i>Lynn K. Weaver, Jennifer L. Gr Butts, M.</i>	rana(Sponsor: Jessica F.

Complete Wrist Drop – Military Explosion

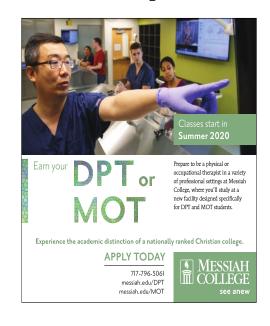
Samantha Willer (Sponsor: Aiesha Ahmed, MD)

FACSM)

Chronic Prepatellar Swelling in Elderly Gentleman Devesh A. Patel (Sponsor: Justin G. Tunis, MD)

	Friday Afternoon Per	nnsylvania
	Clinical Track: Clinical Case Studies Session 2	Moderator
2:35-2:45p	Blunt Testicular Trauma - Wrestling Megan B. Sanborn (Sponsor: Eldra W. Daniels, MD)	
2:45-2:55p	Knee Injury- A Tragic Tackle in a Weekend Warrior Laura A. Shaffer, John R. Deitch (Sponsor: Mark E. Lavallee, MD)	
2:55-3:05p	Non-Traumatic Back Pain in Teenage Volleyball Player Dominique Stevens, Stephanie MacDonald (Sponsor: Mark Mirabelli, MD)	David Ross, MD
3:05-3:15p	Altered Mental Status – Lacrosse Ryan S. Stolakis (Sponsor: Mark Lavallee, MD)	& Jessica Butts, MD
3:15-3:25p	Whole Body Muscle Cramping – Football Jeffrey Wisinski (Sponsor Peter Seidenberg, MD)	MD
3:25-3:35p	Clinical Considerations in a Patient Presenting with Constitutional Symptoms After Mountain Biking Joseph Wong (Sponsor: David Ross, MD)	

Session Sponsor



	Friday Afternoon	Chestnut/ Dogwood
	Oral Presentations: Undergraduate	Moderator
	Cardiovascular, Renal & Respiratory Physiology	
1:00-1:15p	The Effect of Postprandial Lipemia Serum With or Without a Prior Bout of Acute Exercise on Endothelial Cell Function Abel B. Banko ¹ , Nathan T. Jenkins ^{1,2} , Daniel D. Shill ¹ , James M. Hagberg ¹ . ¹ University of Maryland, College Park, MD, ² University of Georgia, Athens, GA	
1:15-1:30p	Finger Plethysmography and Heart Rate Monitors Provide Accurate Resting Heart Rate Variability Assessments vs Electrocardiography Fiona M. Horvat, Alexander L. Enrique, David A. Phillips, Peter A. Hosick, Evan L. Matthews. Montclair State University, Montclair, NJ	
1:30-1:45p	Beetroot Juice and Cerebrovascular Hemodynamics in Young Adults with a History of Concussion: Preliminary Findings Brandon J. Fascia, Jacob P. DeBlois, Kevin S. Heffernan. Syracuse University, Syracuse, NY.	
	Epidemiology, Biostatistics & Health Promotion	Jodi Dowthwaite,
1:45-2:00p	Peak Height Velocity Maturity Offset Estimated from Cross-sectional vs. Longitudinal Growth Data Matthew J. Pelowski ¹ , Jennifer E. Minassian ¹ , Tamara A. Scerpella ² , Jodi N. Dowthwaite ^{1,3} . ¹ Binghamton University, Binghamton, NY, ² University of Wisconsin-Madison, Madison, WI, ³ SUNY Upstate Medical University, Syracuse, NY	PhD 1:00-2:30
	Fitness Assessment & Training	
2:00-2:15p	A New Paradigm for Bodyweight Classification from the 2001-2006 National Health and Nutrition Examination Survey Parina Depani, Michael Bruneau Jr., Drexel University, Philadelphia, PA	
2:15-2:30p	High-Speed Treadmill Running Reduces Systemic Inflammation But Fails as Secondary Intervention For Peripheral Musculoskeletal Discomfort Ryan W Paul ¹ , Tianqi TG Smith ² , Ann E Barr-Gillespie ³ , Michelle Y Harris ¹ , Mamta Amin ¹ , Sean Gallagher ² , Mary F Barbe ¹ . ¹ Temple University, Philadelphia, PA, ² Auburn University, Auburn, AL, ³ Pacific University, Hillsboro, OR	
	Break 2:30-2:45p	
2:45-3:00p	Effects of an Eight Week Periodized Resistance Program in Adolescents Alec L. Shriner, Shaelyn L. Parry, Kristofer S. Wisniewski. Saint Francis University Loretto PA	
3:00-3:15p	Relationship Between Sleep Quality and Quantity with Sports-Related Injury Rates Francesco J. Palagruto, Michael A. Angelucci, Emily J. Sauers. East Stroudsburg University, East Stroudsburg PA	Emily Sauers, PhD 2:45-3:30
3:15-3:30p	Determining the Accuracy of Basal Metabolic Rate Prediction Equations for Athletes Kianna H. Ly, Joseph R Stanzione, Stella L. Volpe, FACSM Drexel University, Philadelphia, PA	
Break 3:30-3:45p		

Friday Afternoon Chestnut/Dogwood (cont.)	
Oral Presentations: Undergraduate	Moderator

	Metabolism & Nutrition	
	Energy Balance during Postpartum Period is Associated with	
3:45-4:00p	Metabolic Adaptation	
3.43-4.00р	Iqrah I. Choudhry, Jaime R. DeLuca, Nicolas D. Knuth. Towson University,	
	Towson, MD	
	The Addition of Naltrexone Alters Cerebral Glucose Uptake	
	Following Acute Exercise	
4:00-4:15p	Corey Doyle ¹ , Qudratullah Qadiri ² , Harlee York ¹ , Bryce J. Muth ² , Candace	
•	Longoria ³ , Sara C. Campbell ³ , John J. Guers ¹ . ¹ Rider University, Lawrenceville,	
	NJ, ² Stockton University, Galloway, NJ, ³ Rutgers University, New Brunswick, NJ	John Guers, PhD
	Is Hormonal Contraceptive Use during Adolescence a Factor in	3:45-4:45
	Baseline Adult Muscle Mass and Function?	
4:15-4:30p	Berkley M. Sawester, Agnes V. Sydenstricker, Jacqueline E. Pina, Dana	
	Al Kuisi, Mahmoud A. Almady, Jodi N. Dowthwaite. Binghamton	
	University, Binghamton, NY	
	Cardiovascular Responses to the Cold Pressor Test Are Not Modified	
4.20 4.45	in Healthy Adults with a History of Concussion	
4:30-4:45p	Paul J. Kueck, Emma L. Reed, Christopher L. Chapman, Blair D. Johnson.	
	University at Buffalo, Buffalo, NY	

	Friday Afternoon	Ash/Birch
	Oral Presentations- Masters Award Nominees	Moderator
1:00-1:15p	Lower Extremity Power and its Relationship to Qualitative and Quantitative Measures of Landing Performance Bailey Capra, Bridgette Buckalew, Jacklyn Alencewicz, Bridget Keough, David Phillips. Montclair State University, Montclair, NJ	
1:15-1:30p	Arterial Wave Reflection Increases 60 Minutes Post Ultramarathon but Returns to Baseline at 24 Hours Catalina A. Chesney ¹ , Lauren E. Eagan ¹ , Ryan M. Sapp ¹ , Rian Q. Landers-Ramos ² , Odessa Addison ³ , Steven J. Prior ^{1,4} , Sushant M. Ranadive ¹ . ¹ University of Maryland, College Park, MD. ² Towson University, Towson, MD. ³ University of Maryland, School of Medicine, Baltimore, MD, ⁴ Baltimore Veterans Affairs Geriatric Research, Education and Clinical Center, Baltimore, MD	Peter Hosick, PhD
1:30-1:45p	Potential Racial Disparity in Vascular Function Across the Menstrual Cycle Michele N. D'Agata, Alexandra E. Hirt, Elissa K. Katulka, Felicia R. Berube, Megan M. Wenner, Melissa A.H. Witman. University of Delaware, Newark, DE	1:00-2:15
1:45-2:00p	The Effects of Acute Thermoneutral and Hot Water Immersion on Cerebrovascular Reactivity Nathan J. Klaes ¹ , Morgan L. Worley ¹ , Emma L. Reed ¹ , Jacqueline C. Dirr ² , Dziana Vertsiakhouskaya ¹ , Manjoyt Sandhur ¹ , Zachary J. Schlader ^{1,3} , Blair D. Johnson ¹ . ¹ University at Buffalo, Buffalo, NY, ² Loyala University Chicago, Chicago, IL ³ Indiana University, Bloomington, IN	
2:00-2:15p	Exercise's Effect on Reaction Time and Answer Accuracy During Memory Recall Lucas Van Horn ² , Stefan Szilagyi ¹ , William A. Braun ¹ , FACSM ¹ Shippensburg University of Pennsylvania, Shippensburg, PA, ² West Chester University of Pennsylvania, West Chester, PA	
	Break 2:15-2:30p	
	Oral Presentations- Doctoral Award Nominees	
2:30-2:45p	Sleep Variability is Associated with Measures of Peripheral Vascular Function in Healthy Undergraduate College Students Elissa K. Katulka, Felicia R. Berube, Michele N. D'Agata, Freda Patterson, Melissa A.H. Witman. University of Delaware, Newark, DE	
2:45-3:00p	Impact of Operational Stress on Motor Evoked Potentials in Military Personnel Maria C. Canino, Felix Proessl, Adam J. Sterczala, Courtenay Dunn-Lewis, William R. Conkright, Aaron M. Sinnott, Alice LaGoy, Meaghan E. Beckner, Shawn R. Eagle, Fabio Ferrarelli, Anne Germain, Christopher Connaboy, Bradley C. Nindl, FACSM, Shawn D. Flanagan. University of Pittsburgh, Pittsburgh, PA	Emily Besecker, PhD
3:00-3:15p	The Role of Reactive Oxygen Species in Neurovascular Coupling in Healthy Young and Older Adults Theodore M. DeConne, Faria Sanjana, Wendy Nichols, Joshua C. Hobson, and Christopher R. Martens. University of Delaware, Newark DE	2:30-4:00
3:15-3:30p	Vascular and Autonomic Correlates of Cerebral Pulsatility in Young Alaina C. Glasgow, Jacob P. DeBlois, Allison Keller, Kevin S. Heffernan. Syracuse University, Syracuse, NY	
3:30-3:45p	Diagnosed Concussion History is Associated with Increased Risk for Lower-Extremity Injury in R.O.T.C. Cadets Katherine J. Hunzinger, Katelyn M. Costantini, C. Buz Swanik, Thomas A. Buckley. University of Delaware, Newark, DE	
4:00-5:00p	MEET THE EXPERTS: Student Session	

	Friday Afternoon	Elm/Fir	
	Oral Presentations: Graduate	Moderator	
	Cardiovascular, Renal & Respiratory Physiology		
1:00-1:15p	Brain Natriuretic Peptide and Inflammation in Non-Dialysis Chronic Kidney Disease Nicholas V. Chouramanis ¹ , Joseph M. Stock ¹ , Bryce J. Muth ¹ , Danielle L. Kirkman ² , David G. Edwards ¹ . ¹ University of Delaware, Newark, DE, ² Virginia Commonwealth University, Richmond, VA		
1:15-1:30p	The Association between Ambulatory Blood Pressure Monitoring, Cerebrovascular Pulsatility, and Cognitive Performance in Young Adults Jacob P. DeBlois, Allison P. Keller, Kevin S. Heffernan. Syracuse University, Syracuse, NY		
1:30-1:45p	Blood Pressure Responses During Isometric Full Body Exercise vs Isometric Handgrip: A Pilot Study Angelica R. Del Vecchio, David A. Phillips, Evan L. Matthews. Montclair State University, Montclair, NJ	Jordan Patik, PhD	
1:45-2:00p	Microvascular Endothelial Dysfunction is Not Evident in Adults with 2017 AHA/ACC-Defined Stage 1 Hypertension Gabrielle A. Dillon ¹ , Jody L. Greaney ^{1,2} , Lacy M. Alexander ¹ . ¹ The Pennsylvania State University, University Park, PA, ² University of Texas Arlington, Arlington, TX	1:00-2:30	
2:00-2:15p	Effects of Oral Saline Consumption on Heart Rate Variability Measurements During Postural Change Alexander L. Enrique ¹ , John J. Del Vecchio ² , Peter A. Hosick ² , Evan L. Matthews ² . ¹ University of Delaware, Newark, DE, ² Montclair State University, Montclair, NJ		
2:15-2:30p	Cellular Endothelin-1 Expression in Pre- and Post-menopausal Women Andrew V. Kuczmarski, Joshua C. Hobson, David G. Edwards, Megan M. Wenner. University of Delaware, Newark, DE		
	BREAK 2:30-2:45p		
	Cardiovascular, Renal & Respiratory Physiology		
2:45-3:00p	Peripheral Revascularization Reverses the Decline in Active Muscle Oxygen Saturation in Peripheral Artery Disease J. Carter Luck ^{1,2} , Danielle Jin-Kwang Kim ¹ , Cheryl A. Blaha ¹ , Samuel Pai ¹ , Faisal Aziz ¹ , John F. Radtka ¹ , Kimberly S. Fasczewski ² , Abigail S. L. Stickford ² , Lawrence I. Sinoway ¹ . ¹ Penn State University College of Medicine, Hershey, PA, ² Appalachian State University, Boone, NC		
3:00-3:15p	ET-1 Receptor Responses in Young Women with a Family History of Hypertension Shane J. McGinty, Laura M. Welti, Andrew V. Kuczmarski, Sangeetha Nathaniel, and Megan M. Wenner. University of Delaware, Newark, DE	Shannon Lennon, PhD	
	Epidemiology Biostatistics & Health Promotion		
3:15-3:30p	Vascular function in Female Vegetarians and Omnivores Macarena Ramos Gonzalez, Alexis Mbakwe, Katarina Smiljanec, Michelle Zuelch, Shannon Lennon. University of Delaware, Newark, DE.		
3:30-3:45p	Association Between Large Elastic Artery Stiffness and Brain Integrity with Advancing Age Faria Sanjana, Peyton L. Delgorio, Ryan T. Pohlig, Lucy V. Hiscox, Theodore M. DeConne, Joshua C. Hobson, Curtis L. Johnson, Christopher R. Martens. University of Delaware, Newark, DE		
	Friday Afternoon Elm/Fir (cont.)		
	Oral Presentations: Graduate	Moderator	

3:45-4:00p	Ultra-processed Food Consumption and Vascular Health Katarina Smiljanec, Macarena Ramos-Gonzalez, Alexis U. Mbakwe, Christina Mesbah, Shannon L. Lennon. University of Delaware, Newark, DE		
4:00-4:15p	Pressure Wave Reflection Magnitude is Reduced Following Peak Exercise in Young and Older Adults Joseph M. Stock ¹ , Nicholas V. Chouramanis ¹ , Ninette Shenouda ¹ , Jordan C. Patik ¹ , Julio A. Chirinos ² , David G. Edwards ¹ . ¹ University of Delaware, Newark, DE, ² University of Pennsylvania, Philadelphia, PA		
BREAK 4:15-4:30p			
	Cardiovascular, Renal & Respiratory Physiology		
4:30-4:45p	Impact of Exercise Frequency on ET-1 Responses in Postmenopausal Women Laura M. Welti, Shane J. McGinty, Andrew V. Kuczmarski, Sangeetha Nathaniel, and Megan M. Wenner. University of Delaware, Newark, DE		
4:45-5:00p	Cerebral Blood Velocity Increases during Face Cooling in Symptomatic Concussed Athletes Wenjie Ji ¹ , Morgan L. Worley ¹ , Morgan C. O'Leary ¹ , James R. Sackett ^{1,2} , Zachary J. Schlader ^{1,3} , John J. Leddy ¹ , Blair D. Johnson ¹ . ¹ University at Buffalo, Buffalo, NY, ² Cornerstone University, Grand Rapids, MI, ³ Indiana University, Bloomington IN	Meghan Ramick, PhD 4:30-5:00	

Friday Evening

7:15 PM Keynote Address:

The 2-Hour Marathon
Grand Ballroom



8:30 – 10:00 PM Professional Social – Pennsylvania Room

8:30 PM - College Bowl - Registered Teams (more teams may be added)

University of Maryland
Indiana University of Pennsylvania
East Stroudsburg University
West Liberty University
Cabrini University
William Patterson University

Drexel University
Saint Francis University
Temple University
Slippery Rock University
West Chester University

Messiah College
The University of Scranton
Salisbury University
Towson University
Gannon University

College Bowl Sponsors:



Lebanon Valley College

9:30ish PM - Fitness Challenge (more teams may be added)

West Chester University
Indiana University of Pennsylvania
East Stroudsburg University
SUNY Cortland University

Drexel University Seton Hill University Temple University Cabrini University Slippery Rock University Towson University

Fitness Challenge



	Saturday Morning	Salon A
	Poster Session: Graduate	Moderator
	Metabolism & Nutrition	
8:00-8:10a P-48	Exercise Attenuates Weight Gain and Modulates Satiety Hormones in Female Mice Candace R. Longoria, Paul J. Wisniewski, Robert A. Dowden, Natasha Malonza, Sara C. Campbell, FACSM. Rutgers University, New Brunswick, NJ	
8:10-8:20a P-49	Effects of Cholecalciferol Supplementation on Vitamin D Status among Male and Female Collegiate Basketball Athletes Nicole M. Sekel, Sina Gallo, Margaret T. Jones, Tammy L. Wagner, Jennifer B. Fields. George Mason University, Fairfax, VA	Selen Razon, PhD 8:00-8:40
	Psychology, Behavior, & Neurobiology	0.00 0.10
8:20-8:30a P-50	Diabetes Prevention Program: An Investigation of Lifestyle Coaches' Habits and Motivations Melanie K. Sookiasian ¹ , Selen Razon ¹ , Patricia G. Davidson ¹ , Umit Tokac ² , Melissa A. Reed ¹ . ¹ West Chester University, West Chester PA ² University of Missouri, St Louis, MO	
8:30-8:40a P-51	The Effects of Essential Oils on Perception of Exertion, Task Pleasantness and Time on Task Katelyn Koser ¹ , Umit Tokac ² , Melissa Reed ¹ , Melissa Whidden ¹ , Selen Razon ¹ . ¹ West Chester University, West Chester, PA ² University of Missouri, St Louis, MO	
	Skeletal Muscle, Bone & Connective Tissue	
8:40-8:50a P-52	Wheel Running Partially Compensates for the Effects of Estrogen Receptor-\alpha Knockout on Cortical Bone Rebecca K. Dirkes, Nathan C. Winn, Thomas J. Jurrissen, Dennis B. Lubahn, Victoria J. Vieira-Potter, Jaume Padilla, Pamela. S Hinton. University of Missouri, Columbia, MO	
8:50-9:00a P-53	Increased Adenosine Monophosphate Degradation Impairs Mitochondrial Function Catherine B. Springer, Michael D. Tarpey, Jeffrey J. Brault. East Carolina University, Greenville, NC	
9:00-9:10a P-54	Healthy Men and Women are Protected from Prolonged Sitting and Postprandial Hyperglycemia-Induced Endothelial Dysfunction Lauren K. Park, Robert M. Restaino, Nathan C. Winn, Jaume Padilla. University of Missouri, Columbia, MO	Nick Knuth, PhD 8:40-9:30
9:10-9:20a P-55	Correlations of Body Composition and 1RM to Peak Velocity at different Exercise Intensities in Back Squat. Ethan S. Lindermuth, Robert J. Grow, Tatum M. Mack, Ishalé N. Toliver, Kris D. Bookamer, Joshua S. Gates, Kyle S. Beyer. Bloomsburg University, Bloomsburg, PA	
9:20-9:30a P-56	RFD-SF and Time to Peak Force for Grip Strength is not affected in College Aged Students with Multiple Concussions Shana McMeans, Mary Debolt ¹ ; Logan Large ¹ ; Micah Josephson ² Shenandoah University, Winchester, VA, ² Alvernia University, Reading, PA	
	Professional Posters	
9:30-9:40a P-57	The Cardiopulmonary Effects of Thoracic Load Carriage While Resting Ashley Y. Lesniak, Benjamin J. Ronemus, Curt B. Dixon, FACSM. Lock Haven University, Lock Haven, PA	
9:40-9:50a P-58	Differences in Performance Decline Between Sex Under Simulated Military Operational Stress Differences in Performance Decline Between Sex Under Simulated Military Operational Stress Philip J. Agostinelli ¹ , William R. Conkright ¹ , Aaron M. Sinnott ¹ , Meaghan E. Beckner ¹ , Shawn R. Eagle ¹ , Brian J. Martin ¹ , Shawn D. Flanagan ¹ , Christopher Connaboy ¹ , Anne Germain ² , Bradley C. Nindl ¹ . ¹ Univiersity of Pittsburgh, Pittsburgh, PA, ² School of Medicine, University of Pittsburgh, PA	Self-moderated Session

	Saturday Morning Salon A (cont.)	
	Poster Session: Professional	Moderator
9:50-10:00a P-59	Association between Physical Activity and Social Media Usage in College Students Sara J Kovacs ¹ , Amanda L Folk ^{1,2} . ¹ Temple University, Philadelphia, PA, ² University of Minnesota, Minneapolis, MN	
10:00-10:10a P-60	Evoking the Mechanoreflex Using Static and Dynamic Approaches: The Influence of Free Radicals and Sex Stephen J. Ives, Allison Keller, and Lucas Zornoza. Skidmore College, Saratoga Springs, NY	Self-moderated Session
10:10-10:20a P-61	The Impact of a Parkinson's Disease Workshop on Student's Attitudes and Competencies Towards Interprofessional Collaboration Brittany S. Overstreet, Christine V. Cook, Barrett Michalec, Julie Schneider. University of Delaware, Newark, DE	

Saturday Morning

Salon B

Biomechanics Session

8:00-8:50a

My Body wants to Stop Running - Should I Listen? The Biomechanics of Fatigued Running

Ajit Chaudhari, PhD, FACSM

	Biomechanics Communications	Moderator	
	Oral Presentations		
9:00-9:15a	The Effects of Accentuated Eccentric Loading on Velocity and Muscle Activation in the Bench Press Alexis H. Castro, Gavin L. Moir. East Stroudsburg University of Pennsylvania, East Stroudsburg, PA		
9:15-9:30a	Load Magnitude and Locomotion Strategy Alters Knee Mechanics in Recruit-Aged Women Kellen T. Krajewski ¹ , Camille C. Johnson ¹ , Dennis E. Dever ¹ , Nizam U. Ahamed ¹ , Qi Mi ¹ , William J. Anderst ² , Chris Connaboy ¹ . ¹ Neuromuscular Research Laboratory, University of Pittsburgh, Pittsburgh, PA, USA ² Biodynamics Laboratory, University of Pittsburgh, PA	Micah	
9:30-9:45a	Normalization Removes Differences in Contractile Properties and Corticospinal Excitability Between Single- and Multi-Joint Exercises Felix Proessl, Maria C. Canino, Adam J. Sterczala, Courtenay Dunn-Lewis, William R. Conkright, Aaron M. Sinnott, Meaghan E. Beckner, Shawn R. Eagle, Fabio Ferrarelli, Anne Germain, Chris Connaboy, Bradley C. Nindl, FACSM, Shawn D. Flanagan. University of Pittsburgh, Pittsburgh, PA	Josephson, PhD	
9:45-10:00a	Estimating Scapular Kinematics during Baseball Pitching using an Individualized Linear Model Approach R. Tyler Richardson, Pennsylvania State University Harrisburg, Middletown, PA		
	Poster Presentations		
10:00-10:10a P-62	Information Processing is not Affected by Multiple Concussions in College Age Students Mary Debolt ¹ , Shana Mcmeans ¹ , Logan Large ¹ , Micah Josephson ² . ¹ Shenandoah University, Winchester, VA, ² Alvernia University, Reading, PA		
10:10-10:20a P-63	Impact Forces of Unilateral and Bilateral Landings in Various Ballet Jumps Maren D. Pulou, Tyler Standifird. Utah Valley University, Orem UT	Micah Josephson, PhD	
10:20-10:30a P-64	Lower Body Kinematics Do Not Differ Between Flat Ground and Mound Baseball Throwing Joshua P. Perez ¹ , Maryellen M. Crain ¹ , Andrew C. Venezia ¹ , Bryon C. Applequist ² . The University of Scranton, Scranton, PA, ² The University of Hawaii at Hilo, Hilo, HI		

10:45-11:15a

Biomechanics Interest Group Meeting

	Firefighter Health and Safety	Moderator
8:00-8:55a	The Big 8 of Firefighter Functional Fitness Dan Kerrigan	
9:00-9:55a	Cardiovascular & Chemical Exposure Risks on Today's Fireground Gavin Horn	Jerry Jerome
10:00-10:55a	The Combined Influence of Virtual Training and Slow-paced Ventilation on Decision-making in Professional Firefighters Calvin Lu, PhD Candidate	
11:00-11:55a	Fire Fighter Combat Challenge Paul Davis	

	Saturday Morning	Chestnut/ Dogwood
	Poster Session: Undergraduate	Moderator
	Clinical Exercise Physiology	
8:00-8:10a P-65	Effect of Creatine Supplementation on Muscle Oxygen Saturation Morgan M. Vance, Meghan Shepherd, Colin J. Gimblet, Austin T. Ortlip, Timothy B. Staudmyer, Thomas K. Pellinger, Zachary M. Townsend, John J. LaManca, Timothy J. Werner. Salisbury University, Salisbury, MD	
	Fitness Assessment & Training	
8:10-8:20a P-66	The Effects of Music on Perceived Intensity of Exercise During a Submaximal Treadmill Test Ruth Georges, Thariana Salazar, Rebecca Shumard, Anjuli Gairola, Cabrini University, Radnor, PA	
8:20-8:30a P-67	The Physiological and Perceptual Responses of Thoracic Load Carriage During Walking Benjamin J. Ronemus, Ashley Y. Lesniak, Curt B. Dixon, FACSM. Lock Haven University, Lock Haven, PA	
	Psychology, Behavior, & Neurobiology	
8:30-8:40a P-68	Influence of Acute Resistance Training on Memory, Executive Function and Mood Patrick J. Barney, Cannon G. Hiranaka, Daniela M. Spagnoli, and Andrew C. Venezia. The University of Scranton, Scranton, PA	Anjuli Gairola, PhD 8:00-9:10
8:40-8:50a P-69	The Psychoactive Effect of Exercise May Mediate Increases in Pain Tolerance Following Acute Exercise Lauren S. Kerner, Casey B. Wrabley, John J. Guers. Rider University, Lawrenceville, NJ	
8:50-9:00a P-70	Mental Health is not Affected by Multiple Concussions in Young Adults Logan Large ¹ ; Mary Debolt ¹ ; Shana Mcmeans ¹ , Micah Josephson ² . ¹ Shenandoah University, Winchester, VA, ² Alvernia University, Reading, PA	
	Skeletal Muscle, Bone & Connective Tissue	
9:00-9:10a P-71	The Effects of 50k Ultramarathon Running on Quadriceps Torque and Circulating Inflammatory Calprotectin Kathleen Dondero ¹ , Inez Hankerson ¹ , Christa M. Nelson ² , Steven J. Prior ^{2,3,4} , Odessa Addison ^{2,4} , Rian Q. Landers-Ramos ¹ . ¹ Towson University, Towson, MD, ² University of Maryland School of Medicine, Baltimore, MD, ³ University of Maryland, College Park, MD, ⁴ Baltimore Veterans Affairs Geriatric Research, Education and Clinical Center, Baltimore, MD	
9:00-9:10a P-72	Effects of Pre-infusion and Home Exercise Program on Quality of Life and Fatigue During Chemotherapy Treatment: A Case Study Ashley L. Oostveen, Meghan G. Ramick, Selen Razon, Melissa A. Reed. West Chester University of Pennsylvania, West Chester, PA	

8:00-8:10a P-73 A Comparative Analysis of Soccer Skill Tests on Varying Experience Levels Madison J. Jones, Dominic Stroh, Erica Helm, Kyra Shank, Dylan Beaver, Samuel T. Forlenza, Shippensburg University, Shippensburg, PA Habitual Alcohol Consumption and its Relationship to Physical Fitness in College-age Students Garba, Rakkins, Sarah Malay, Brock Asper, Nathan Gardner, Brayden Tiner, Samuel T. Forlenza, Shippensburg University, Shippensburg, PA The Effect of Video Distraction on High-Intensity Exercise Performance Shannon K. Brady, Kristen Cofer, Meghan Steager, Remington Paul, Abby Monko, H. Scott Kieffer, FACSM, Messiah College, Mechanicshurg, PA The Effect of Static and Dynamic Stretching on Power Output in Dancers Sydney R. De Poto, Abigail K. Gibson, Elizabeth R. Vileg, Grace M. Brewster, Emily A. Walter, H. Scott Kieffer, FACSM, Messiah College, Mechanicshurg, PA Stauffer, Ph. Scott Scheffer, FACSM, Messiah College, Mechanicshurg, PA The Effect of Music Tempo on Muscular Endurance During the Bench Press Garrent C. Ressler, Ashley Y. Lesniak, Curt B. Dixon, FACSM. Lock Haven University, Lock Haven, PA The Effects of a Novel Ground-Based Movement Training Program on Functional Movement, Flexibility, Strength and Endurance Jeffrey D. Buxton', Philip J. Prins', Michael G. Miller', Anthony Moreno', Gary L. Welton', Adam Awelf', Gractene Eksey', Tirzah Talampas', Growe City College, Grove City, PA: Western Michael G. Miller', Anthony Moreno', Gary L. Welton', Adam Awelf', Gractene Eksey', Tirzah Talampas', Growe City College, Grove City, PA: Western Michael Bewridge, Josie Weaver, Saw Picky, Rachel Caldwell, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effect of Caffeine and the c. 1083T>C Polymorphism on Anaerobic Power and Anaerobic Capacity Joshua Beiler, Caleb Smith, Rachel Caldwell, Madison Wright, Anna Mayo, Michael Shin, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effects of Foam Rolling on Hamstring Flexibility, Muscle Soreness and Power The Effects of	Saturday Morning Penn	nsylvania
Secondary Seco	Fitness Assessment & Training	Moderator
B:10-8:20a P-74 College-age Students Gorn R. Akins, Sarah Malay, Brock Asper, Nathan Gardner, Brayden Tiner, Samuel T. Forlenza. Shippensburg University, Shippensburg, PA The Effect of Video Distraction on High-Intensity Exercise Performance Shannon K. Brady, Kirsten Cofer, Meghan Steager, Remington Paul, Abby Monko, H. Scott Kieffer, FACSM, Douglas K. Miller. Messiah College, Mechanicsburg, PA The Effect of Static and Dynamic Stretching on Power Output in Dancers Sydney R. De Poto, Abigail K. Gibson, Elizabeth R. Vileg, Grace M. Brewster, Emily A. Walter, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA Stauffer, Ph. Scott Kieffer, FACSM Messiah College, Mechanicsburg, PA The Effect of Static and Dynamic Stretching on Power Output in Dancers Sydney R. De Poto, Abigail K. Gibson, Elizabeth R. Vileg, Grace M. Brewster, Emily A. Walter, H. Scott Kieffer, FACSM Messiah College, Mechanicsburg, PA Changes in Health-Related Fitness of College Females During a One-Semester Activity Course Nick Forrhman, Rachel Femiano, Miles Baker, Jennifer Moxley, Andrea T. Barton, Tara B. Blackshear. Towson University, Towson, MD The Effect of Music Tempo on Muscular Endurance Effects of a Novel Ground-Based Movement Training Program on Functional Movement, Plexibility, Strength and Endurance Effects of a Novel Ground-Based Movement Training Program on Functional Movement, Philip J. Prins!, Michael G. Miller? Anthony Moreno?, Gary L. Welton!, Adm Anwell!, Gretchen Elsey!, Tirzah Talampas!, 'Grove City College, Grove City, PA. 'Western Michigan University, Kalamazoo, MI. 'Eastern Michigan University, Yisiland, MI P:10-9:20a P-80 The Cardiorespiratory Response of Caffeine Supplementation with Submaximal Exercise in College Students Scott Keffer, FACSM. Messiah College, Mechanicsburg, PA The Effect of Caffeine and the c.1083T>C Polymorphism on Anaerobic Power and Anaerobic Capacity Joshua Beiler, Caleb Smith, Rachel Caldwell, Madison Wright, Anna Mayo, Micheal Shin, H. Scott Kieffer, FACSM. Messiah College, Me	Levels Madison J. Jones, Dominic Stroh, Erica Helm, Kyra Shank, Dylan Beaver, Samuel T.	
Shannon K. Brady, Kirsten Cofer, Meghan Steager, Remington Paul, Abby Monko, H. Scott Kieffer, FACSM, Douglas K. Miller. Messiah College, Mechanicsburg, PA The Effect of Static and Dynamic Stretching on Power Output in Dancers Sydney R. De Poto, Abigail K. Gibson, Elizabeth R. Vlieg, Grace M. Brewster, Emily A. Walter, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA Changes in Health-Related Fitness of College Females During a One-Semester Activity Course Nick Forthman, Rachel Femiano, Miles Baker, Jennifer Mosley, Andrea T. Barton, Tara B. Blackshear. Towson University, Towson, MD The Effect of Music Tempo on Muscular Endurance During the Bench Press Garrent C. Ressler, Ashley Y. Lesniak, Curt B. Dixon, FACSM. Lock Haven University, Lock Haven, PA Effects of a Novel Ground-Based Movement Training Program on Functional Movement, Flexibility, Strength and Endurance Other J. Melton', Adam Atwell', Gretchen Elsey', Tirzah Talampas', 'Grove City College, Grove City, PA. 'Western Michigan University, Kalamazoo, MI. 'Eastern Michigan University, Ypsilanii, MI The Cardiorespiratory Response of Caffeine Supplementation with Submaximal Exercise in College Students Garret Showalter, Anna Mayo, Abigail Beveridge, Josie Weaver, Saw Picky, Rachel Caldwell, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effect of Caffeine on Motor Task Performance Alyssa Cunningham, Jesse Torbic, Emily Davis, Carissa Weaver, Kara Leaman, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Influence of Caffeine and the c.1083T>C Polymorphism on Anaerobic Power and Anaerobic Capacity Joshua Beiler, Caleb Smith, Rachel Caldwell, Madison Wright, Anna Mayo, Micheal Shin, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effects of Foam Rolling on Hamstring Flexibility, Muscle Soreness and Power Kameron Holt', Tessa Cordell', Brooke Delancy ¹ , Erica Koutch', Nik Romage ¹ , Kyle Wagnan', Sally Paulson', Joohee I. Sanders'. 'Shippensburg, PA, 'Mount St. Joseph University, Cincinnati, O	College-age Students Gavin R. Atkins, Sarah Malay, Brock Asper, Nathan Gardner, Brayden Tiner, Samuel	
Sydney R. De Poto, Abigail K. Gibson, Elicabeth R. Vileg, Grace M. Brewster, Emily A. Walter, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA 8:40-8:50a P-77 Rick Forthman, Rachel Femiano, Miles Baker, Jennifer Moxley, Andrea T. Barton, Tara B. Blackshear. Towson University, Towson, MD The Effect of Music Tempo on Muscular Endurance During the Bench Press Garrett C. Ressler, Ashley Y. Lesniak, Curt B. Dixon, FACSM. Lock Haven University, Lock Haven, PA Effects of a Novel Ground-Based Movement Training Program on Functional Movement, Flexibility, Strength and Endurance 9:00-9:10a P-79 P-7	Shannon K. Brady, Kirsten Cofer, Meghan Steager, Remington Paul, Abby Monko, H.	
Changes in Health-Related Fitness of College Females During a One- Semester Activity Course Nick Forthman, Rachel Femiano, Miles Baker, Jennifer Moxley, Andrea T. Barton, Tara B. Blackshear. Towson University, Towson, MD The Effect of Music Tempo on Muscular Endurance During the Bench Press Garrett C. Ressler, Ashley Y. Lesniak, Curt B. Dixon, FACSM. Lock Haven University, Lock Haven, PA Effects of a Novel Ground-Based Movement Training Program on Functional Movement, Flexibility, Strength and Endurance Jeffrey D. Buxton ¹ , Philip J. Prins ² , Michael G. Miller ² , Anthony Moreno ³ , Gary L. Welton ¹ , Adam Anvell ¹ , Gretchen Elsey ¹ , Tirzah Talampas ¹ . Grove City College, Grove City, PA. "Western Michigan University, Kalamazoo, MI. 'Eastern Michigan University, Ypsilanti, MI The Cardiorespiratory Response of Caffeine Supplementation with Submaximal Exercise in College Students Garret Showalter, Anna Mayo, Abigail Beveridge, Josie Weaver, Saw Picky, Rachel Caldwell, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effect of Caffeine on Motor Task Performance Alyssa Cunningham, Jesse Torbic, Emily Davis, Carissa Weaver, Kara Leaman, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Influence of Caffeine and the c.1083T>C Polymorphism on Anaerobic Power and Anaerobic Capacity Joshua Beiler, Caleb Smith, Rachel Caldwell, Madison Wright, Anna Mayo, Micheal Shin, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effects of Foam Rolling on Hamstring Flexibility, Muscle Soreness and Power Kameron Holt ¹ , Tessa Cordell ¹ , Brooke Delancy ¹ , Erica Koutch ¹ , Nik Romage ⁴ , Kyle Wagman ¹ , Sally Paulson ² , Joohee I. Sanders ² , Shippensburg University, Shippensburg, PA, ² Mount St. Joseph University, Cincinnati, OH Positional Differences in Training Load During Matches and Practices in Collegiate Female Soccer Players. Charles P. Nole ⁴ , Alexis Q. Shafer ² , Jordan M. Paisley ² , Andrew T. Askow ³ , Joel A.	Sydney R. De Poto, Abigail K. Gibson, Elizabeth R. Vlieg, Grace M. Brewster, Emily	Stauffer, PhD
8:50-9:00a P-78 P-78 P-78 P-78 P-78 P-78 P-78 P-78	Semester Activity Course Nick Forthman, Rachel Femiano, Miles Baker, Jennifer Moxley, Andrea T. Barton,	8.00-9.10
9:00-9:10a P-79 Functional Movement, Flexibility, Strength and Endurance Jeffrey D. Buxton ¹ , Philip J. Prins ¹ , Michael G. Miller ² , Anthony Moreno ³ , Gary L. Welton ¹ , Adam Atwell ¹ , Gretchen Elsey ¹ , Tirzah Talampas ¹ . ¹ Grove City College, Grove City, PA. ² Western Michigan University, Kalamazoo, MI. ³ Eastern Michigan University, Ypsilanti, MI The Cardiorespiratory Response of Caffeine Supplementation with Submaximal Exercise in College Students Garret Showalter, Anna Mayo, Abigail Beveridge, Josie Weaver, Saw Picky, Rachel Caldwell, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effect of Caffeine on Motor Task Performance Alyssa Cunningham, Jesse Torbic, Emily Davis, Carissa Weaver, Kara Leaman, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Influence of Caffeine and the c.1083T>C Polymorphism on Anaerobic Power and Anaerobic Capacity Joshua Beiler, Caleb Smith, Rachel Caldwell, Madison Wright, Anna Mayo, Micheal Shin, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effects of Foam Rolling on Hamstring Flexibility, Muscle Soreness and Power Kameron Holt ¹ , Tessa Cordell ¹ , Brooke Delancy ¹ , Erica Koutch ¹ , Nik Romage ¹ , Kyle Wagman ¹ , Sally Paulson ² , Joohee I. Sanders ¹ , Shippensburg University, Shippensburg, PA, ² Mount St. Joseph University, Cincinnati, OH Positional Differences in Training Load During Matches and Practices in Collegiate Female Soccer Players. Charles P. Nolte ¹ , Alexis Q. Shafer ² , Jordan M. Paisley ² , Andrew T. Askow ³ , Joel A.	Press Garrett C. Ressler, Ashley Y. Lesniak, Curt B. Dixon, FACSM. Lock Haven University, Lock Haven, PA	
9:10-9:20a P-80 The Cardiorespiratory Response of Caffeine Supplementation with Submaximal Exercise in College Students Garret Showalter, Anna Mayo, Abigail Beveridge, Josie Weaver, Saw Picky, Rachel Caldwell, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effect of Caffeine on Motor Task Performance Alyssa Cunningham, Jesse Torbic, Emily Davis, Carissa Weaver, Kara Leaman, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Influence of Caffeine and the c.1083T>C Polymorphism on Anaerobic Power and Anaerobic Capacity Joshua Beiler, Caleb Smith, Rachel Caldwell, Madison Wright, Anna Mayo, Micheal Shin, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effects of Foam Rolling on Hamstring Flexibility, Muscle Soreness and Power Kameron Holt ¹ , Tessa Cordell ¹ , Brooke Delancy ¹ , Erica Koutch ¹ , Nik Romage ¹ , Kyle Wagman ¹ , Sally Paulson ² , Joohee I. Sanders ¹ , Shippensburg University, Shippensburg, PA, Mount St. Joseph University, Cincinnati, OH Positional Differences in Training Load During Matches and Practices in Collegiate Female Soccer Players. Charles P. Nolte ¹ , Alexis Q. Shafer ² , Jordan M. Paisley ² , Andrew T. Askow ³ , Joel A.	Functional Movement, Flexibility, Strength and Endurance Jeffrey D. Buxton ¹ , Philip J. Prins ¹ , Michael G. Miller ² , Anthony Moreno ³ , Gary L. Welton ¹ , Adam Atwell ¹ , Gretchen Elsey ¹ , Tirzah Talampas ¹ . ¹ Grove City College, Grove City, PA. ² Western Michigan University, Kalamazoo, MI. ³ Eastern Michigan University,	
9:20-9:30a P-81 P-81 Alyssa Cunningham, Jesse Torbic, Emily Davis, Carissa Weaver, Kara Leaman, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA P-82 The Influence of Caffeine and the c.1083T>C Polymorphism on Anaerobic Power and Anaerobic Capacity Joshua Beiler, Caleb Smith, Rachel Caldwell, Madison Wright, Anna Mayo, Micheal Shin, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA P-83 The Effects of Foam Rolling on Hamstring Flexibility, Muscle Soreness and Power Kameron Holt ¹ , Tessa Cordell ¹ , Brooke Delancy ¹ , Erica Koutch ¹ , Nik Romage ¹ , Kyle Wagman ¹ , Sally Paulson ² , Joohee I. Sanders ¹ . Shippensburg University, Shippensburg, PA, Mount St. Joseph University, Cincinnati, OH Positional Differences in Training Load During Matches and Practices in Collegiate Female Soccer Players. P-80 Charles P. Nolte ¹ , Alexis Q. Shafer ² , Jordan M. Paisley ² , Andrew T. Askow ³ , Joel A.	The Cardiorespiratory Response of Caffeine Supplementation with Submaximal Exercise in College Students Garret Showalter, Anna Mayo, Abigail Beveridge, Josie Weaver, Saw Picky, Rachel	5.
P-82 The Influence of Caffeine and the c.1083T>C Polymorphism on Anaerobic Power and Anaerobic Capacity Joshua Beiler, Caleb Smith, Rachel Caldwell, Madison Wright, Anna Mayo, Micheal Shin, H. Scott Kieffer, FACSM. Messiah College, Mechanicsburg, PA The Effects of Foam Rolling on Hamstring Flexibility, Muscle Soreness and Power Kameron Holt ¹ , Tessa Cordell ¹ , Brooke Delancy ¹ , Erica Koutch ¹ , Nik Romage ¹ , Kyle Wagman ¹ , Sally Paulson ² , Joohee I. Sanders ¹ . Shippensburg University, Shippensburg, PA, ² Mount St. Joseph University, Cincinnati, OH Positional Differences in Training Load During Matches and Practices in Collegiate Female Soccer Players. Charles P. Nolte ¹ , Alexis Q. Shafer ² , Jordan M. Paisley ² , Andrew T. Askow ³ , Joel A.	Alyssa Cunningham, Jesse Torbic, Emily Davis, Carissa Weaver, Kara Leaman, H.	Overstreet, PhD
9:40-9:50a P-83 Power Kameron Holt ¹ , Tessa Cordell ¹ , Brooke Delancy ¹ , Erica Koutch ¹ , Nik Romage ¹ , Kyle Wagman ¹ , Sally Paulson ² , Joohee I. Sanders ¹ . ¹ Shippensburg University, Shippensburg, PA, ² Mount St. Joseph University, Cincinnati, OH Positional Differences in Training Load During Matches and Practices in Collegiate Female Soccer Players. 9:50-10:00a Charles P. Nolte ¹ , Alexis Q. Shafer ² , Jordan M. Paisley ² , Andrew T. Askow ³ , Joel A.	Power and Anaerobic Capacity Joshua Beiler, Caleb Smith, Rachel Caldwell, Madison Wright, Anna Mayo, Micheal	7.10-10.30
9:50-10:00a Collegiate Female Soccer Players. Charles P. Nolte ¹ , Alexis Q. Shafer ² , Jordan M. Paisley ² , Andrew T. Askow ³ , Joel A.	Power Kameron Holt ¹ , Tessa Cordell ¹ , Brooke Delancy ¹ , Erica Koutch ¹ , Nik Romage ¹ , Kyle Wagman ¹ , Sally Paulson ² , Joohee I. Sanders ¹ . ¹ Shippensburg University, Shippensburg,	
P-84 Luedke ^c , Jacob L. Erickson ^t , Andrew R. Jagim ^t . ¹ Mayo Clinic Health System, Onalaska, WI, ² University of Wisconsin – La Crosse, La Crosse, WI, ³ University of Illinois at Urbana-Champaign, Champaign, IL	Collegiate Female Soccer Players. Charles P. Nolte ¹ , Alexis Q. Shafer ² , Jordan M. Paisley ² , Andrew T. Askow ³ , Joel A. Luedke ² , Jacob L. Erickson ¹ , Andrew R. Jagim ¹ . ¹ Mayo Clinic Health System, Onalaska, WI, ² University of Wisconsin – La Crosse, La Crosse, WI, ³ University of Illinois at	

10:00-10:10a P-85	The Acute Effect of a Five Repetition Maximum on Vertical Jump Performance at Different Time Intervals Troy Walter, Evan Courtney, Chris Zinn, Steven Yovic, Clayton Meyers, Joohee Sanders, Russell Robinson, Sally Paulson. Shippensburg University, Shippensburg, PA	
10:10-10:20a P-86	Upper Body Kinetics has No Difference for Mound and Flat Ground Throwing Maryellen M. Crain ¹ , Joshua P. Perez ¹ , Andrew C. Venezia ¹ , Bryon C. Applequist ² . ¹ The University of Scranton, Scranton, PA, ² The University of Hawaii, Hilo, HI	
10:20-10:30a P-87	Comparison of Velocity between an Accelerometer and a Linear Position Transducer during Barbell Back Squat Robert J. Grow, Ethan S. Lindermuth, Tatum M. Mack, Ishalé N. Toliver, Kris Bookamer, Joshua T. Gates, Kyle S. Beyer. Bloomsburg University of Pennsylvania, Bloomsburg, PA	
	Metabolism & Nutrition	
10:30-10:40a P-88	Effects of a 6-week Low-Carbohydrate High-Fat Diet on Lipid Profiles in Competitive Recreational Distance Runners Katie E. Scott ¹ , Philip J. Prins ¹ , Timothy D. Noakes ² , Gary L. Welton ¹ , Adam D. Atwell ¹ , Sarah J. Haley ¹ , Noah J. Esbenshade ¹ , Jacqueline Abraham ¹ , Amy S. Raabe ³ , Jeffrey D. Buxton ¹ , Dana L. Ault ¹ . ¹ Grove City College, Grove City, Pennsylvania, ² The Noakes Foundation	
	Psychology, Behavior, & Neurobiology	
10:40-10:50a P-89	Effect of Different Exercise Modalities on Executive Function in College-Aged Individuals Chloe E. Williams, Dana L. Ault, Nathanael J. Sprunk, Lauren E. Dietz, Laura E. Williams, Leah M. Bovard, Jennifer L. Kondracki, Tabitha N. White, Priya M. Graczyk, Allen M. Steimling, Philip J. Prins. Grove City College, Grove City, PA	
10:50-11:00a P-90	The Effects of Music Genre on Cardiovascular Performance and Enjoyment in Young Adults Sydney G. Morgan, Hannah Hamsher, Kenneth Joiner, Lyndsey Koehler, Samuel T. Forlenza. Shippensburg University, Shippensburg, PA.	
11:00-11:10a P-91	Blood Lactate Levels are Correlated with an Increase in Minimal Pain Threshold Casey B. Wrabley, Lauren S. Kerner, John J. Guers. Rider University, Lawrenceville, NJ	Wally Bixby, PhD 10:30-11:40
11:10-11:20a P-92	The Effect of Acute Exercise on Mood Following a Cognitive Test Battery Jasmin E. Russo, Emily L. Schramm, and Andrew C. Venezia. The University of Scranton, Scranton, PA	
	Skeletal Muscle, Bone & Connective Tissue	
11:20-11:30a P-93	The Effects of a 50k Ultramarathon on Plasma IL-6 and Rectus Femoris Muscle Thickness Dakota Siok¹, Kathleen Dondero¹, Christa M. Nelson², Steven J. Prior²²,³,⁴, Odessa Addison²,⁴, Rian Q. Landers-Ramos¹. ¹Towson University, Towson, MD, ²University of Maryland School of Medicine, Baltimore, MD, ³University of Maryland, College Park, MD, ⁴Baltimore Veterans Affairs Geriatric Research, Education and Clinical Center, Baltimore, MD	
11:30-11:40a P-94	The Effect of Seated Posture on Thoracolumbar Fascia, thus Influencing Balance Michelle C. Furman ¹ , Kameron D. Matthews ¹ , Andrew C. Venezia ¹ , Bryon C. Applequist ² . ¹ The University of Scranton, Scranton, PA, ² The University of Hawaii at Hilo, Hilo, HI	

	Saturday Morning	Ash/Birch
	Oral Presentations: Graduate	
	Environmental & Occupational Physiology	Moderator
8:00-8:15a	Does Weight Status Influence Cardiovascular Response to Sitting Versus Standing While Performing Computer Work? Indira J. Gonzalez, Evan L. Matthews, Peter A. Hosick. Montclair State University, Montclair, NJ	
8:15-8:30a	Self-paced aerobic exercise performance is attenuated following four hours cold water immersion. Hayden W. Hess ¹ , Zachary J. Schlader ¹ , Blair D. Johnson ¹ , David Hostler ¹ , FACSM. ¹ University at Buffalo, Buffalo, NY	Michael Bruneau,
8:30-8:45a	Hydration Status Response to Bolus Frequency and Volume Intake During Exercise in Heat Jonathan R. Larson, Zachary J. Schlader, Blair D. Johnson, David Hostler, Keiona M. Nance, Riana R. Pryor. University at Buffalo, Buffalo, NY	PhD 8:00-9:00
8:45-9:00a	Hot Head-Out Water Immersion Acutely Impairs Cerebral Autoregulation in Healthy Participants Morgan L. Worley ¹ , Emma L. Reed ¹ , Jacqueline C. Dirr ² , Dziana Vertsiakhouskaya ¹ , Manjoyt Sandhur ¹ , Zachary J. Schlader ^{1,3} , Blair D. Johnson ¹ . ¹ University at Buffalo, Buffalo, NY, ² Loyala University Chicago, Chicago, IL, ³ Indiana University, Bloomington, IN	
	Oral Presentations: Undergraduate Awards	
9:00-9:15a	The Inverse Association Between Muscular Strength and Carotid Intima-Media and Extra-Media Thickness in Young Women Julie A. Karabinus, Jacob P. DeBlois, Allison P. Keller, Kevin S. Heffernan. Syracuse University, Syracuse, NY	
9:15-9:30a	Racial Differences in the Effect of Influenza Vaccine on eNOS Expression and Regulatory MicroRNAs Matt R. Laskowski, Ryan M. Sapp, Catherine B. Springer, Daniel B. Singer, William S. Evans, Steven J. Prior, James M. Hagberg, FACSM, Sushant M. Ranadive. University of Maryland, College Park, MD	
9:30-9:45a	The Physiological Validation of Spectral Wavelet Analysis for Skin Flowmotion Zachary S. Lichter, Gabrielle A. Dillon, Lacy Alexander, FACSM. Noll Laboratory, The Pennsylvania State University, University Park, PA	Tiago Barreira, PhD
9:45-10:00a	Hormonal Contraceptive Use and Bone Accrual Rates in Adolescent Females Agnes V. Sydenstricker ¹ , Mahmoud A. Almady ¹ , Tamara A. Scerpella ² , Jodi N. Dowthwaite ^{1,3} . ¹ Binghamton University, Binghamton, NY, ² University of Wisconsin-Madison, Madison, WI, ³ SUNY Upstate Medical University, Syracuse, NY	9:00-10:15
10:00-10:15a	African American and Caucasian Endothelial Cells Exhibit Different Inflammatory Responses to the Influenza Vaccine Daniel B. Singer, Ryan M. Sapp, Matthew R. Laskowski, William S. Evans, Steven J. Prior, James M. Hagberg, FACSM, Sushant M. Ranadive. University of Maryland, College Park, MD	

Saturday Morning	Ash/Birch (cont.)	
PROFESSIONAL FREE COMM	UNICATIONS	

10:45-11:00a	Peripheral Arterial Disease Patients with Exaggerated Pressor Response have Impaired Walking Ability Danielle Jin-Kwang Kim, Polly S. Montgomery, Ming Wang, Biyi Shen, Marcos Kuroki, Andrew W. Gardner. Penn State University College of Medicine, Hershey, PA	
11:00-11:15a	High-fat Diets and Exercise Modulate Colon Inflammation and Proliferative Status in Male and Female Mice Paul J. Wisniewski, Candace Longoria, Robert A. Dowden, Sara C. Campbell, FACSM. Rutgers, The State University of New Jersey, New Brunswick, NJ	
UNDERGRADUATE FREE COMMUNICATIONS		Ninette
11:15-11:30a	Barriers That Influence Adoption of ACL Injury Prevention Programs Among High School Girls' Soccer Coaches Gregory C. Kingston ^{1,2} , Pamela L. Kocher Brown ¹ , Diane L. Gill ¹ , Randy J. Schmitz ¹ . ¹ University of North Carolina at Greensboro, Greensboro, NC, ² Thiel College, Greenville, PA	Shenouda, PhD 10:45-12:00
11:30-11:45a	An Analysis of the Differences in Exercise, Wearable Exercise Technology Device Use and Increased Exercise Behaviors in University Women Carrie A. McFadden. Towson University, Towson, MD	
11:45-12:00р	Changes in Vertical Jump and Sprint Momentum at the NFL Scouting Combine since 2000 Kyle S. Beyer ¹ , Ishalé N. Toliver ¹ , David D. Church ² . ¹ Bloomsburg University of Pennsylvania, Bloomsburg, PA, ² University of Arkansas for Medical Sciences, Little Rock, AR	

	Saturday Morning	Elm/Fir	
	Oral Presentations: Graduate	Moderator	
	Epidemiology, Biostatistics & Health Promotion		
8:00-8:15a	60 Min Daily Vs Average of 60 Min/Day, Are There Differences in Health Status? Gianpietro J. Elías-Revolledo & Tiago V. Barreira. Syracuse University. Syracuse, NY		
	Fitness Assessment & Training		
8:15-8:30a	Predicting Gross Motor Skills in Children: Data from the 2012 NHANES National Youth Fitness Survey Lindsey E. White, Tiago V. Barreira. Syracuse University. Syracuse, NY	Kristofer	
8:30-8:45a	Validity and Reliability of the Two-Point Method for Estimating Squat and Bench Press One-Repetition Maximums Dylan S. Zangakis, Brandon W. Snyder, Gavin L. Moir, Shawn N. Munford. East Stroudsburg University of Pennsylvania, East Stroudsburg, PA	Wisniewski, PhD 8:00-9:15	
8:45-9:00a	Relationship of Health-Related Quality of Life to Functional Fitness in Rural Cancer Survivors Jared R. Heitzenrater, Nicole M. Svendsen, Kristofer S. Wisniewski, Saint Francis University, Loretto, PA		
9:00-9:15a	Effect of a 12-week Supervised Exercise Program on Anxiety and Depression in Cancer Survivors Bethany M. Kanski, Alex J. Sipolino, Kelsey N. Colaric, Kristofer S. Wisniewski Saint Francis University, Loretto, PA		
	BREAK 9:15-9:30a		
	Psychology, Behavior, & Neurobiology		
9:30-9:45a	Increased Deep Sleep May Relate to Compromised Perception-action Coupling Performance in Military Personnel Alice D. LaGoy ^{1,2} , Shawn R. Eagle ¹ , Aaron M. Sinnott ¹ , Meaghan E. Beckner ¹ , William R. Conkright ¹ , Bradley C. Nindl ¹ , Anne Germain ² , Fabio Ferrarelli ² , Chris Connaboy ¹ . ¹ University of Pittsburgh, Pittsburgh PA, ² University of Pittsburgh School of Medicine, Pittsburgh PA		
	Metabolism & Nutrition		
9:45-10:00a	A Survey of Nutritional Knowledge in College-Aged Students Elizabeth A. Berdahl, Meaghan M. Dwyer, Emily J. Sauers. East Stroudsburg University. East Stroudsburg, PA.	Jason Metz, PhD 9:30-10:30	
10:00-10:15a	Gut Microbiota Contribute to Exercise Capacity and Metabolic Profile in a Wildtype and Longevity Model Mouse Robert A. Dowden ¹ , Paul J. Wisniewski ¹ , John J. Guers ² , Marko Oyandich ¹ , Stephen F. Vatner ¹ , Sara C. Campbell ¹ , FACSM. ¹ Rutgers, The State University of New Jersey, New Brunswick, NJ, OR, ² Rider University, Lawrence Township, NJ	7.30 10.30	
10:15-10:30a	Effects of Beetroot and Hawthorn Supplementation on Blood Pressure and Prevalence of AMS in Hypoxia Nathan E. Bartman, University at Buffalo, Buffalo, NY		
BREAK 10:30-10:45a			

Saturday Morning Elm/Fir (cont)

Fitness Assessment & Training		
10:45-11:00a	Validation of a Wrist-Mounted Photoplethysmography Device During Graded Exercise Testing Joshua S. Gates ¹ , Luke Haile ¹ , Alyssa A. Olenick ² , Kyle S. Beyer ¹ , Joseph L. Andreacci1, FACSM, Curt B. Dixon ² , FACSM. ¹ Bloomsburg University, Bloomsburg, PA, ² Lock Haven University, Lock Haven, PA	
11:00-11:15a	Effects of 12 Weeks of an Individualized Exercise Program in Cancer Survivors Alex J. Sipolino, Bethany M. Kanski, Julie A. Stillman, Kristofer S. Wisniewski, Saint Francis University, Loretto PA	
11:15-11:30a	Satellite Cell-Derived Extracellular Vesicles as a Therapeutic for Muscle Disease Kyle T. Shuler ¹ , Brittany E. Wilson ¹ , Eric R. Muñoz ¹ , Andrew D. Mitchell ¹ , Joshua T. Selsby ² , Matthew B. Hudson ¹ . ¹ University of Delaware, Newark, DE. ² Iowa State University, Ames, IA	J. David Mosinski, PhD
11:30-11:45a	Development of a Time Efficient Protocol for Cross-Limb Comparisons of Muscle Mitochondrial Capacity Using NIRS Rewais Hanna ¹ , Jigar Gosalia ¹ , Zachary Hobson ¹ , Jocelyn Delgado ¹ , Alaina Demalis ¹ , Kevin McCully ² , Brian Irving ³ , Swapan Mookerjee ⁴ , Giampietro Vairo ¹ and David Proctor ¹ . ¹ Penn State University, University Park, PA, ² University of Georgia, Athens, GA, ³ Louisiana State University, Baton Rouge, LA, ⁴ Bloomsburg University, Bloomsburg, PA	10:45-12:00
11:45-12:00a	Differential Responses in the Growth Hormone-Insulin-Like Growth Factor-1 Axis Following Simulated Military Operational Stress William R. Conkright ¹ , Meaghan E. Beckner ¹ , Aaron M. Sinnott ¹ , Alice D. LaGoy ^{1,2} , Felix Proessl ¹ , Shawn R. Eagle ¹ , Brian J. Martin ¹ , Shawn D. Flanagan ¹ , Christopher Connaboy ¹ , Anne Germain ² , Bradley C. Nindl ¹ . ¹ University of Pittsburgh, Pittsburgh, PA, ² School of Medicine, University of Pittsburgh, Pittsburgh, PA	

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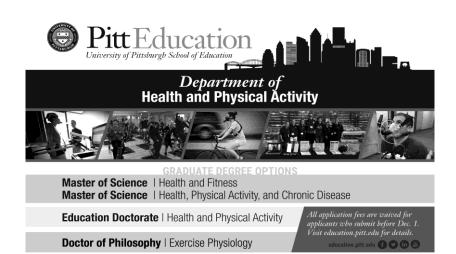


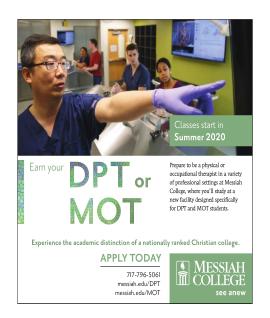
















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