	Wedn	esday, August 8		Thurso	day, Aug	ust 9			Frida	y, Augu	st 10			Satur	day, Augu	st 11		
7:00a-7:30a				Contine	ental Brea	kfast			Contin	ental Bre	akfast				5K Fun Run			7:00a-7:30a
7:30a-8:00a				E	Ballroom					Ballroom					SK FUN KUN			7:30a-8:00a
8:00a-8:30a			Wolcomo	and Keynot	to - Kanun	Error Pro	contation	Keynot	e - Mayo	Spinal Co	rd Injury	Team -	Cont	inental Br	eakfast		Breakfast	8:00a-8:30a
8:30a-9:00a		Outreach Introduction Iter front lobby/door	weicome	and Reynor	Hall	Loser //c	sentation		Pres	entation	lall			Ballroom	7		Required) 02/103	8:30a-9:00a
9:00a-9:30a				Break	(9:15-9:30	lam)		4	Brea	ık (9-9:30	am)			💩 Bre	ak (9-9:30a	m)		9:00a-9:30a
9:30a-10:00a			SB3C/ASB	Next Gen Sensors &	Walking	Sex	Stroke	ASEE/ASB	ISG/ASB	JOB & COB Award	Standing	Triceps Surae	Hay Award	Joint Imaging	Joint	Arm 1	Leg 1	9:30a-10:00a
10:00a-10:30a	Diversi	ty Outreach Event	Symposium Se 104	Data	(Rapid Podium)	Differences (Thematic)	(Thematic) Ste 111/112	Teaching Symposium	Symposium Ste 105	Comp (Podium)	(Thematic) Ste	(Thematic)	Symposium Ste 104	Symposium Ste 105	(Podium)	(Thematic) Ste	Ste	10:00a-10:30a
10:30a-11:00a	Boys & G	irls Club of Rochester	310 104	Ste 105	Ste 106	Ste 110/113	se 111/112	Ste 104	See 105	Ste 106	110/113	111/112	316 104	386 105	Ste 106	110/113	111/112	10:30a-11:00a
11:00a-11:30a			3	Break	(11-11:30	am)		ک	Break	(11-11:3	0am)			Brea	k (11-11:30	am)		11:00a-11:30a
11:30a-12:00p			Doctoral Comp	Doctoral Comp	Doctoral Comp - Track			NBD	Pediatrics	Pitching &	Jumping & Landing	Prosthetics	ACSM/ASB	Spine &	Rehab	Arm 2	Log 2	11:30a-12:00p
12:00p-12:30p	Registration Opens		-Track A (Repid Podium)	Track B (Rapid Podium)	C (Rapid Podium) Ste			Symposium Ste 104	Pregnancy (Podium)	Swinging (Podium)	(Thematic)	(Thematic) Ste	Symposium Ste 104	Trunk (Podium)	(Podium) Ste 106	ste	(Thematic) Ste	12:00p-12:30p
12:30p-1:00p	Ballroom labby west/south	Tutorial-Rigor/ Reproducibility	Ste 104	Ste 105	106				Ste 105	Ste 106	110/113	111/112		Ste 105	510 200	110/113	111/112	12:30p-1:00p
1:00p-1:30p		Ste 104		Lunch			vorking Event		Lunch			of ASB ussion		Lunch			Meeting	1:00p-1:30p
1:30p-2:00p			Ballroom Bollroom lobby west/south			Ballroom Presentation Hall				Ballroom		Presente	ation Hall	1:30p-2:00p				
2:00p-2:30p	Lab Tours Mayo					Borelli Award Keynote - Roger Enoka			Presentations by winners of the Pre-doc Award, Post-doc Award, Goel Award, and				2:00p-2:30p					
2:30p-3:00p	Clinic	Tutorial Leadership	Poster Se	ssion - Feat	uring Pos	ter Eleme	nt of the		Prese	entation	Hall		Award, Post-doc Award, Goel Award, and Founders Award Presentation Hall				2:30p-3:00p	
3:00p-3:30p		Ste 102/103	Doctoral C	ompetition			nd lots of										3:00p-3:30p	
3:30p-4:00p					at science allroom			Poster S	Session -	Featurin	Underg	rad and	Break (3:30-4pm)			m)		3:30p-4:00p
4:00p-4:30p	ASD Even	utive Board Meeting							ers Stude				Muscle & Tendon	Bone	Running (Rapid	ACL	Sensors	4:00p-4:30p
4:30p-5:00p		raham Boardroom						refres	hments, c	ind lots c Ballroom	f great s	cience	Friendship Symposium	(Podium) Ste 105	Podium)	(Thematic) Ste 110/113	Ste	4:30p-5:00p
5:00p-5:30p			Women	in Science	Event (T	icket Rev	wirodi						Ste 104		Ste 106		111/112	5:00p-5:30p
5:30p-6:00p		nt Welcome Event		William N									Clos		esentation Ha		ients	5:30p-6:00p
6:00p-6:30p		Ste 102/103													utive Board			6:00p-6:30p
6:30p-7:00p														Edith G	raham Boan	aroom		6:30p-7:00p
7:00p-7:30p				Stude	ent Night	Out												7:00p-7:30p
7:30p-8:00p		ning Reception																7:30p-8:00p
8:00p-8:30p	River Fron	t/South & West Lobby	Dinner	on your o	un (Pe-	actor!- 4	amour			Banquet					nd see you			8:00p-8:30p
8:30p-9:00p				on your of sdays on l				S Peace Plaza			Calgary for the 2019 ISB/ASB meeting!			eeting!	8:30p-9:00p			
9:00p-9:30p				,									1	of 16	3			9:00p-9:30p
9:30p-10:00p				afternoon and evening)										9:30p-10:00p				

List of platform presentations

Session	Date	Time	Format	Session Chair(s)	Title	Corr Author	First Author	Abr	tract ID
					Predicting Measures of Physical Performance from Galt Mechanics in Patients with Ankle Osteoarthritis Does local dynamic stability during unperturbed walking predict the response to balance perturbations?	Queen Franz	Queen Qiao		364 204
					Restoring Propulsive Forces in Elderly Gait Does Not Impair Dynamic Stability Young adults are surprisingly bad at walking: See differences in the circumstances associated with falls Propulsion Control March Munic Control During Control During Propulsion	Browne Cho	Browne Cho	3	292 340
Walking	Thursday, Aug. 9	09:30-11:00	Rapid Podium	Anita Bagley & Robin Pomerov	Does Foot Position Affect Muscle Function During Galt in Cerebral Palay? Isolating Effects of Toe and Foot Length on Bipded Walking Correlation Between Galt Asymmetry and Modor Variability	Hegarty Honert Hughes-Oliver	Hegarty Honert Hughes-Oliver		333 441 168
				Koom Pomeroy	Curreation Retween Sait Systems of the Fock with Walking Speed Changes in Force-Deformation Patterns of the Fock with Walking Speed A New Kinematic Based Sait Event Detection Algorithm During Treadmill Locomation	Hulcher	Hulcher Morgan		231 304
					A New Minimatic based our event Detection Agomann During Interaction Documentation The Effects of Subtalar Axis Orientation on Kinematics and Kinetics During Dynamic Motion Discrepancy in Modular Control of Gait Derived from Experimental and Simulated Activation Patterns	Ringleb	Noginova Roelker	3	380
					Characterium in Woodal extension de Sain Ceenver Unit Experimental and simulated activation Faterins Auditory and Yosala extension cession de effects of spatial but similar effects on temporal gait variability Sex Difference in Human Ankle Stiffness	Roelker Vaz	Vaz Trevino	Ē	613
				Allison Gruber	Leg Stiffness, Joint Stiffness, and Running Injury Rate: A Prospective Cohort Study		Davis IV		591
Sex Differences	Thursday, Aug. 9	09:30-11:00	Thematic	& Shelby Peel	The Influence of Body Mass Index and Sex on Frontal and Sagittal Plane Joint Moments During Walking Sex Differences in Rumning, Cutting and Drop-Landing Biomechanics PervA-LR Reconstruction Sex differences in not unit behavior undrine force devolutionment	Garcia Hannigan	Garcia Hannigan		471 662 557
					Say and machanizm of Johany (MOI) influence know mechanics after anterior cruciate ligament reconstruction (ACLR)	Ito	Ito	3	183
				Elizabeth Hsiao	Advantised in the control of energy (wear) interest in termination in the control of energy (wear) interest interest interest in the control of energy (wear) interest i	Pigman Adkins	Pigman Adkins		106 643
Stroke	Thursday, Aug. 9	09:30-11:00	Thematic	Wecksler & Sabrina Lee	Motor Module Generalization Across Walking and Balance is Associated with Better Walking Performance Post-stroke Merged Plantarflexor Module Predicts Poor Walking Performance in Post-Stroke Hemiparetic Subjects	Brough	Allen Brough		132 187 392
					Post-Stroke Stiff Knee Gali ti Linked to Milo timed Braking Forces Methodology to Estimate Voluntary Activation of the Paretic Elbow and Wrist Muscles in Chronic Hemiparetic Stroke Using Twitch Interpolation Reliability and Tentral Measurement Unit Based Dual-Task Gait Balance Assessment	Dean Garmirian Chou	Dean Garmirian	3	392 478
					Exploring Movement Variability and EEG Correlates During Motor Learning	Shattuck	Shattuck Ebrahimi		100 185
				Cecile	A Novel Approach for 'Builaining Compensatory Gail' Stratispies Using Mechanical Energetics Gail Variability to Predict Motor Learning of a Novel Motor Task Real-Niem anusi-Sates bioleedback to reduce impact Loading during over-ground running	Ulman Van den Berghe	Ulman Van den Berghe	3	193
Octoral Competition Track A	Thursday, Aug. 9	11:30-13:00	Rapid Podium	Smeesters & Evelyne	Rear-winn Hoste Galde Development of the second sec	Lamers Donahue	Lamers Donahue	3	239 334 408
				Carbonneau	I ower Limb Joint Angle Variance As A Function Of Obstacle Height During Obstacle Crossing	Cui	Cui Vitali	4	409
					Lad Effects on Performance for Example Obstacles in an Outdoor Course NCONSTETENCIES IN STAILCASE DIMENSIONS IMPACT UPON STAIR CLUBBING SAFETY NCONSTETENCIES IN STAILCASE DIMENSIONS IMPACT UPON STAIR CLUBBING SAFETY	Francksen	Francksen		440 454
					Regular Running in Midlife May Be Protective of Plantarflexor Function After a Prolonged Walk A Full-state Controller for the Simple Inverted Pendulum Bipot Derived from Human Perturbation Experiments The Effect of Scatodhonacic Luwark Rotation on Subcomali Proteinities	Lasto Joshi Lawrence	Lasto Joshi Lawrence		490 570 191
					Cervical Spine Biplanar Fluoroscopy: Automated Shape-Matching Algorithm Validation 15/51 Iolet Ioad Edimation during Lifting Isling a Deep Learning Raced Method	Ellingson Mehrizi	Kage Mehrizi	3	325
					LS/S1 Jole Load Estimation during Lifting Using a Deep Learning Based Method ON-STE REACTIVE BALANCE TRAINING AMONG RESIDENTS OF RETIREMENT COMMUNITIES Estimates of Achiller Tendon Noment X-multi Maki of Rotation Determined from Ankle Motion versus Anatomical Landmarks	Aviles	Aviles Wade	3	339 356 394
Doctoral Competition Track B	Thursday, Aug. 9	11:30-13:00	Rapid Podium	Melissa Gross & Joshua	Examined became related to the method of the optimization of the o	Vignos Southern	Vignos Southern	4	432
				Leonardis	Teaming application Costance Control Protect Programming a period Control Control Protection Programming and Control Control Protection Programming Control Control Control Protection Programming Control Control Control Protection P	Cortes	Lindsey	4	444 532
					Patients with Medial Knee OA Vary in the Kinetic Response to Plantar Pressure-Based Feedback		He McNally	5	539
					Comparison of Joint Kinetics Using Common Models for Baseball Pitching Changes in Dynamic Motor Control Following Neurorehabilitation For Traumatic Brain Injury: Treadmill Vs Overground Walking Michael Lead Motor Control Following Neurorehabilitation For Traumatic Brain Injury: Treadmill Vs Overground Walking	McNally Acuna Watanabe	Acuna Watanabe	6	549 620 74
					Effect of Local Muscle Fatigue on Low-Frequency Common Input to Bilateral and Unilateral Hantar Flexors during Quiet Standing Tricops Starse Muscle-Subtendin Interaction Differs Between Young and Older Adults Minder Advide Beautimetication Bedietheting Long Bediedheting	Clark	Clark	1	129 302
					Older Adults Reverse their Distal-to-Proximal Redistribution Using Biofeedback Post-Operative Function and Muscle Modules during Gait at 6 and 24 Months Following Total Knee Arthroplasty Post-Streike Middles Berchardure Unie Redientific Fundamentary Fordal Reserved Forder Controller Post-Streike Middles Rechardure Unie Reserved Antom Montechnik Forder Forder Forder Post-Streike Middles Rechardure Unie Reserved Antom Kenzelentor Forderlier Post-Streike Middles Rechardure Unie Recentrative Rechardure Unie R	Browne Koehn McCain	Browne Koehn McCain		302 368 377
loctoral Competition Track C	Thursday, Aug. 9	11:30-13:00	Rapid Podium	Alena Grabowski &	Peor Stroke Walking Mechanics Using a Speed Adaptive Myeolectric Exoskieleton Controller Pathological Knee Joint Condition in Children with Cerebral Palay is Associated with the Active State Muscular Mechanics rather than Passive Evaluating the Potaniar Ergonomics of Diphalmologists using Kimenati Kondon Analysis and Electromyography	Ates	McCain Kaya Siddichy	3	379
				Ryan Alcantara	In Vivo Relationship Between Joint Stiffness, Joint-based Estimates of Muscle Stiffness, and Shear Wave Velocity	Siddicky Vigotsky DaDackar	Siddicky Vigotsky DeDecker	4	466
					Does Fatigue Affect Wrist Kinematics During a Repetitive Pick-and Place Task? COMPUTATIONAL MODEL OF MUSCLE INURY VALIDATED WITH IN STUT EXPERIMENTS Experiment Marchel Burle and With Burley and Burley and Burley and Burley Brone of Iside Motion in Individual with Chronic Landowski's Stroke.	DeDecker Westman	DeDecker Westman Binder-Markey	5	546 636 646
					Enger Muscles injected with Botulinum Toxin Demonstrate increased Passive Stiffness and Decreased Passive Range of Joint Motion in Individuals with Chronic Hemiparetic Stroke How Does Achilles Tendon Twisting Influence Strain and Energy Storage?	Binder-Markey Knaus	Knaus	é	675
				Dahla C	Hip Extensor Fatigue Alters Hip and Knee Coupling During Step-Downs: A Randomized Controlled Trial Learning Locomotor Stability in Novel Environments	Hollman Bucklin	Beise Bucklin	5	182
COB & JOB Award Session	Friday, Aug. 10	09:30-11:00	Podium	Robin Queen & Brooke Odle	CONTACT STRESS OVER-EXPOSIBLE CORRELATES WITH - OA DEVELOPMENT IN ACETABLLAR FRACTURES Enne Adduction Moment is Greater with Time Since Injury in Individuals with Lower Limb Loss Energi Aceta Cancer Entra Annuer Tyre and Post-Treatment Duration Invesure per Cordanas Mador Recruitment	Dibbern Krupenevich	Dibbern Krupenevich	5	587 523
					Genohumeral Joint Stability During Dynamic Pushing and Pulling	Lulic McFarland	Lulic McFarland	5	523 595 296
Teaching Symposium	Friday, Aug. 10	09:30-11:00	Podium	Kim Bigelow	Hands on Activities Improve Learning In Lecture-only Qualitative Biomechanics Guided Pre-Class Assignments Enhance Student Learning and Interest in Undergraduate Biomechanics	Catena Becker	Catena Becker	1	101 399 257
				-9N	Lessons from the Past: Learning Anatomy in the Italian Renaissance Introducing Engineering and Biomechanics to Prek-6 Students through a Service Learning Partnership	Gross Ringleb	Gross Ringleb	3	315
					Environment-dependent modulation of human ankle stiffness during upright postural balance What Are the Effects of Muscle Weakness on the Sit to Stand Transfer?	Lee Caruthers	Nalam Caruthers	2	82 284
Standing	Friday, Aug. 10	09:30-11:00	Thematic	Jessica Allen & Amy Hegarty	Lateral Stepping Control in Older Adults During Mediolateral Perturbations Effects of Wearing An Upper Limb Prosthesik on Standing Balance	Kazanski Major	Kazanski Major	1	531 188
					Time-Varying Nature of Postural Control during Eyes Closed Quiet Stance A PILOT STUDY OF ARGENTINE TANGO TO IMPROVE POSTURAL CONTROL AMONG CANCER SURVIVORS	Monfort Worthen-Chaudhari	Monfort Worthen-Chaudhari	2	206 287
				Deanna	A model for internal elastic energy storage and recovery in deforming muscles New insights into the mechanical behavior of the healthy, human Achilies tendon revealed by novel digital image correlation		Roberts Quirk		562 194
The Triceps Surae Complex	Friday, Aug. 10	09:30-11:00	Thematic	Asakawa & Carolyn Eng	Required Muscle Activation Dependence on Moment Arm and Maximum Shortening Velocity: A Computer Simulation Study Achilles Tendon Structure Does Not Change in Trained Distance Runners	Piazza Baxter	Hickox Hullfish	3	569 311
				Carolyn Eng	Prediction of Soleus Muscle Fascicle Behavior During Walking Using a Multiscale Coupled OpenSim and FEBio Model Non-Invasive In Vivo Achilles Tendon Stress Measurement: Posture and Rate Dependence	Jones Keuler	Jones Keuler	S	655 506
					Walking Balance on a Treadmill Changes during Pregnancy Enee Joint Loading During Gall In Independently Ambalatory Children With Spins Bilida Mark LIONT STIPPRESS OF CHILDREN WITH CEREBRAL PASY AFTER SELECTIVE DORSAL RHIDOTOMY	Catena Mueske	Catena Wren	7	20 180 103
Pediatrics & Pregnancy	Friday, Aug. 10	11:30-13:00	Podium	Kate Saul	ANKLE JOINT STIFFNESS OF CHILDREN WITH CEREBRAL PALSY AFTER SELECTIVE DORSAL RHIZOTOMY Impact Of Forces On Pediatric Posterior Walker On Work In Cerebral Palsy Gait	Ates Russell	Ates Russell	1	103 537
					Asymmetrical Stance During Child Carrying: Implications for Back Pain Lower Extremity Muscle Activity of Healthy Infants: Implications for Hip Dysplasia Patients		Havens Mannen	3	393 391
					Changes in Youth Baseball Pitching Biomechanics: A 7-Year Longitudinal Study Relationship of Segmental Energy Flow and Elbow Valgus Load During Baseball Pitching		Diffendaffer Aguinaldo	2	23 265
Pitching and Swinging	Friday, Aug. 10	11:30-13:00	Podium	Wendy Murray	Reationabiling of Segmental Energy How and Elbow Values Load During Baseball Ritching Enerative Timing Differences In the Baseball Sweigh Values Taining Drills Readwarth Of The SWNIG IN NCAA DIVISIONI SOFTBALL PLATES	Curran Ficklin	Curran Ficklin	4	673 465
					QUANTIFICATION OF SOFTBALL SINNE PATTERNS AND FELATIONSHIPS TO SINNE KINEMATICS FOR NCAA DIVIDION I SOFTBALL HITTERS DIA-Driven Inverse Dynamics Of Pitching Arm Kinetics in Youth Baseball Players Comparisond 3DOS and SOGY Work and Fower for Standing Long Lung	Lund Klisch	Lund Sterner		467 260
					COUNTERMOVEMENT JUMP HEIGHT AND FORCE ,AI TIME VARIABLES IN HIGH SCHOOL BASKETBALL PLAYERS		Ashby Hale	3	37
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					Effects of Erroneous Movement Predisposition on Jump Landing Joint Contributions to Total Lower Extremity Power during a Single-Leg Hop Landing task after Anterior Cruciate Ligament Reconstruction	Stephenson Tatarski	Stephenson Tatarski		430 415 125
					Increasing Push-Off Energy from a Prosthetic Foot May Not Reduce Energy Losses in the Contralateral Leg During Gait Mass added to a running-specific prosthesis increases metabolic power during running.		Davidson Alcantara	5	572
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					Looranaoon or vronta, an sana su huming sama by wanking in relegonance to vroatmetic analy evolution of a submetic subme	Pickle Wedge	Pickle Wedge	e	601
					Sensitivity of Hip Loading to Periacetabular Osteotomy Reorientation	Wang Gaffney	Tutton Gaffney		28 123 104
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					How Does Internal-External Rotation of the Femoral Component in TKA Change Patellofemoral Biomechanics During Stair Ascent? Knee Biomechanics During Uphill Walking in Older Adults With and Without TKR	Roth Wen	Roth Wen		479 395
					UPPER LIMB JOINT CONTROL DURING ACTIVITIES OF DAILY LIVING Postural Influences on Regional Supra spinatus and infraspinatus Activation in Isometric Arm Elevation Efforts	Vidt Dickerson	Vidt Alenabi	5	102 589
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					Contrainties about an programmers ouring mean universities in regulation of a second		Fortune Whittaker	5	424 581
Т				Allison Sheets,	Effects of Dysplastic Pelvis Morphology on Hip Muscle Lines of Action, Moment Arm Lengths, and Contributions to Joint Reaction Forces A Cross Recurrence Quantification Analysis of Hip Muscle EMG Coupling During Step Downs	Harris Holiman	Song Hollman	1	154 186
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					Impact of Exercise-Induced Pain on Tibiofernoral Contact Forces in Knee OA Muzele Achivity during Stoching Hy Addaction: A Biomedianal Analysis IECERONAMORAANIC ASSESSMENT OF THE SHOLLDER MUSCULATURE DURING PASSIVE REHABILITATION EXERCISES	Lewis	steiner Yan		225 573
				Lise Worthen- Chaudhari,	REM sleep without atonia affects steady-state gait in early Parkinson's disease	Cross MacKinnon	Cross Amundsen Huffmaste	: 4	91 453
Rehab	Saturday, Aug. 11	11:30-13:00	Podium	Jessica Aviles, and James	Walking Biomechanics in Individuals with Knee Osteoarthritis After Quadriceps Strengthening Development of an Intervention-Focused Metric of Galt Balance	Davis Dean	Davis Dean	3	458 390
				Schmiedeler	Internal Representation of External Patient Dynamics During Locomotor Rehabilitation Relationship Between Number of Physical Therapy Witts and Gaite Related Outcomes in Patients with Below-Knee Amputation RelA Gaviaytic of a Duper Body Exolution during Automation Assembly	Hasson Stewart Gillette	Goodman Stewart Gillette	4	344 480 236
				Kristin Three *	EMG Snavyski of an Upper Body Exocketen during Automotive Assembly Trauk Muscle Forces And Spinal Loads While Walking In Persons With Lover Limb Amputation Both With And Without Chronic Low Back Pain Sull Training vs. Strength and Finobility Exercise in People with Chronic Low Back Pain	Butowicz	Gillette Acasio Hocker	3	373
Spine & Trunk	Saturday, Aug. 11	11:30-13:00	Podium	Kristin Zhao & Beth Cloud	Effects of Lower Back and Hip Morphology on Walking Kinematics	Johnson	Hooker Johnson	5	336 560
				L	Direct Comparison Of Kinedic Xand Lumbar Flexion In Barbell Back Sgats And Deadlifts Evaluating the Severity of Adult Sgato Informiny using Timed Up and Go INCREASE IN MEDIAN NERVE LONGITUDINAL MOBILITY BY TRANSVERSE WIRST COMPRESSION IN PATIENTS WITH CARPAL TUNNEL SYNDROME	Lanovaz Smith	Lanovaz Smith	É	419
				Brooke Slavens	INCREASE IN MEDIAN VERVE LONGITU DINAL INGELITY BY TRANSPERSE WRST COMPRESSION IN PATIENTS WITH CARPAL TUNNEL SYNDROME Muculoakiehteit Medie-Based Cartor Performance is Consistent Across Static Upper Limb Postures Mapping Together Thumb Kinetic and Kinematic Function	Li Crouch Droct	Yao Crouch Drort	3	53 370 417
Arm 2	Saturday, Aug. 11	11:30-13:00	Thematic	& Omid Jahanian	Task characteristics affect motor adaptation to muscle assistance	Drost Lee Schilaty	Drost Nguyen Schilatu	4	417 445 145
					Decomposed Electromyography Predicts Clinical Assessment of Finger Extensor Weakness Role of Cognitive Agency in Reach-to-Grasp Movement Performance Insultation on Linical assessment of Singer Viewenter Agency in Reach-to-Grasp Movement Performance Insultation on Linical assessment of Singer Viewenter Agency in Reach-to-Grasp Movement Performance Insultation on Linical assessment of Singer Viewenter Agency in Reach-to-Grasp Movement Performance Insultation of Singer Viewenter Agency in Reach-to-Grasp Movement Performance Insultation of Singer Viewenter Agency Insultation Insultation of Singer Viewenter Agency Insultation I	Nataraj	Schilaty Shah Majaj	3	147
				Starie Pi	INFLIENCE OF LIFETIME RUNNING EXPOSURES ON ANKLE KINETICS AND PLANTARFLEXOR MORPHOLOGY Subalar Kinematics After Tibiotalar Arthrodesis A Feature-Based Seprivatio Lasming Framework for Morphology of Plantar Soft Tissue	Lenz	Lenz		404
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					Ande Konemstic: Vary with the Number of Segments in Multi-Segment Food Models Robotic Approach to Characterize Altered Anklei Mechanics Affected by Strole and Multiple Scienceis In Stru Califortian on the Tendon Shere: Wave Speed Stress Relationship	Kim Lee Martin	Kim Nalam Martin	3	323 220 425
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Т					Tibia Cross-Sectional Roundness is Related to Ambulation, but Not Age, in Children with Myelomeningocele STATISTICAL SHAPE MODELING TO ESTIMATE COORDINATE SYSTEMS FOR PARTUL CAPITATE MODELS	Chadwick Akbari Shandiz	Chadwick Akbari Shandiz		79 538
Bone	Saturday, Aug. 11	16:00-17:30	Podium	Karen Troy	Effect of Brachial Plexus Birth Injury Location on Altered Glenohumeral Microstructure Characterization of Glenoid Baseplate Fixation in the Presence of Osteopenic Bone	Fawcett Hast	Fawcett Hast		517 170 397
					Beyond Ground Reaction Forces: Towards Wearable Tech to Monitor Bone Loading and Prevent Injury STATISTICAL SHAPE MODELING APPROACH TO PREDICT MISSING SCAPULAR BONE: APPLICATIONS IN PRE-SURGERY PLANNING AND MODELING	Borotikar	Matijevich Salhi	3	397 329
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	Janua Day, HUg. 11	10.00-17:30		inche L'avis	What Determines the Metabolic Cost of Human Running Across a Wide Range of Velocities? Minimum Number of Strides to determine Stable Symmetry during Running	Kipp Murphy	Kipp Murphy	2	200 385
					An Exploration of Muscle Activity in Young and Older Runners and the Relationships with Running Economy. HJp Work During Running Liberging During-Specific Prostheses	Schornstein Sepp	Schornstein Sepp	5	536 487
						Thompson Weir	Thompson Weir	4	280 416
					The influence of prolonged running and footwar on lower extremity biomechanics A SENGOR FUSION ALGORITHM FOR ESTIMATING CENTRE OF MASS KIREMATICS IN HUMAN WALKING AFTER SPINAL CORD INJURY ARCHIVE Recognition for a Millitary Syle Datale Course Using Body Worn MUs	Audu Cain	Audu Cain	3	110 256
		16:00-17:30	Thematic	Mary Rodgers & Marisa Papo	Activity Recognition for a Military-Style Obstacle Course Using Body Worn IMUs Waarable Technology To Montor Hand Movement During Constraint-Induced Movement Therapy Predicting Ground Reaction Forces with Acceleroneters and Antificial Neural Networks	Goodwin Miller	Goodwin Miller	3	120 253
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Sensors	Saturday, Aug. 11								
Sensors	Saturday, Aug. 11				Feasibility of Using the HTC VIVE System to Collect Kinematic Data	Spitzley Erbulut Hale	Spitzley Erbulut Hale	3	309
Sensors The ACL	Saturday, Aug. 11 Saturday, Aug. 11	16:00-17:30	Thematic	Michelle Sabick & Anthony Vicini	Feasibility of Using the HTC UWE System to Collect Kinematic Data PREDICTION OF ACL STRAIN LUNGER NON-CONTACT SPORT-LOADING CONDITIONS: A DYNAMIC, FINITE ELEMENT ANALYSIS EFECTSO FINITE EINEMATICS ON ACL STRAIN DURING SIMULATED LANDING	Erbulut Hale		3	309 66 249 128

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21	Femoral Anteversion (Twisted Leg) On Running For Developing Individual.	Apti	Apti	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 002
40	Effect Of Obesity On Trunk Muscle Activity During One-Handed Carrying	Badawy	Badawy	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 003
326	Step Width Changes With Increased Bimanual Load Regardless Of Sex	Baudendistel	Baudendistel	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 004
305	Muscle-Tendon Unit Parameters Affect Simulation Results During Walking	Baxter	Baxter	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 005
131	Females Are More Mechanically Efficient Than Males	Bennett	Bennett	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 006
672	Knee Loads During Running At Commonly Prescribed Running Paces: A Case Study	Brindle	Brindle	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 007
375	Sex Comparison Of Post-Arthroscopy Gait Mechanics For Femoroacetabular Impingement Syndrome	Brown	Brown	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 008
506	Sex Differences Persist Across Gait Speeds	Bruening	Bruening	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 009
122	Transitional Movements With Body Borne Load Increases Ankle Work	Cameron	Cameron	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 010
67	Old And Young Adults Demonstrate Similar Muscle Co- Contractions During Walking Older Adults Overcome Their Deficits To Young Adults When	Pal	Chandran	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 011
97	Propulsive Demands Of Walking Are Increased To Their Maximum	Conway	Conway	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 012
190	Modulation Of Non-Linear Stiffness In The Foot-Shoe Complex During Running	Day	Day	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 013
196	Validity Of Pressure-Measuring Insoles In Quantifying Center Of Pressure	DeBerardinis	DeBerardinis	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 014
318	Elliptical Estimation Of Plantar Contact Areas During Walking	DeBerardinis	DeBerardinis	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 015
211	Energy Return In Prosthetic Feet For High Activity Users During Weighted And Unweighted Walking	Dellamano	Dellamano	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 016
570	Energetics And Stability Of Running On Rough Terrains	Dhawale	Dhawale	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 017
525	Kinetic Analysis Of Rodent Gait After Volumetric Muscle Loss Injury And Treatment	Russell	Dienes	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 018
507	Footstrike Pattern Effects On Sagittal Knee Mechanics In Runners With Transtibial Amputation: Initial Observations	Djafar	Djafar	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 019
500	Altered Knee Loading Patterns Observed In Contralateral Limb During Medial Knee Thrust	Cortes	Eddo	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 020
534	Gait Initiation: Understanding Biomechanics Of Non-Steady Modulations	Ehtemam	Ehtemam	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 021
49	Sex And Limb Impact Lower Limb Biomechanics During Loaded Single Leg Cuts	Fain	Fain	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 022
521	Destabilization After Expected And Unexpected Discrete Perturbations During Overground Gait	Fino	Fino	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 023
184	An Initial Look At Gait Stability During Over-Ground Walking In Cancer Patients	Fischer	Fischer	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 024
565	Misadventures Of A Biomechanist: A Closer Look At Kinematics And Ultrasound Of A Hamstring Injury	Infantolino	Fox	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 025
571	Running Training Alters Limb Stiffness And Lowers The Cost Of Locomotion	Polk	Fox	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 026
486	"Swing Phase Kinematics And Prospective Running Injury Development"	Gruber	Frankston	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 027
412	Knee Dynamics And Running Cadence: A Controlled Case Study	Fritz	Fritz	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 028
83	A Pipeline For Analyzing Motion Capture Data Using Opensim	Frisch	Galloy	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 029
141	Running Kinematics At Self-Selected And Prescribed Speeds In Adolescent Runners	Garcia	Garcia	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 030
564	Marathon Training And Rpe: Can Self Evaluation Lead To More Healthy Runners At The Starting Line?	Gedlinske	Gedlinske	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 031
240	The Effects Of A Carbon Fiber Shoe Insole On Running Mechanics	Gregory	Gregory	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 032
194	Running Gait Complexity Increases Before Injury In Collegiate Runners	Gruber	Gruber	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 033
176	Coordination And Variability Differ By Years Of Running Experience	Hafer	Hafer	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 034
502	Examining The Minute To Minute Predictability Of Walking Distance And Local Joint Stability Across Multiple Surfaces	Hamer	Hamer	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 035
65	Chaotic Behavior Of Peak Ground Reaction Forces During Gait	Hausselle	Hausselle	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 036
347	Delayed Time To Fixation Of An Intra-Articular Fracture Does Not Cause Additional Limb Dysfunction In A Large Animal Model Of Post-Traumatic Osteoarthritis	Heck	Heck	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 037
461	Quantifying Changes In Gait Following Intra-Articular Fracture In A Large Animal Model Of Post-Traumatic Osteoarthritis	Heck	Heck	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 038
552	Hip And Knee Forces For Transtibial Amputees In Gait And Cycling	Heyde	Heyde	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 039

	Effect Of Foot Position On Knee Mechanics In Obese Young				Thursday,	3:30:00	5:00:00	
473	Adults	Holmes	Holmes	Walking/Running	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 040
561	Running Economy And Marathon Racing Shoes Gait Biomechanics Early After Aclr Do Not Predict Medial	Hunter	Hunter	Walking/Running	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 041
433	Compartment Joint Space Width 5 Years After Aclr "Comparison Of Gait Kinematics And Spatiotemporal Measures	Johnson	Johnson	Walking/Running	Aug. 9	PM	PM	Th 042
674	Between Lock And Pin And A New Vacuum Suspension System In Transtibial Amputees	kellems	kellems	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 043
402	Dynamic Structure Of Variability Of Joint Angles In User-Driven Treadmill Walking	Kempski	Kempski	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 044
252	Do People With A Transtibial Amputation Have A Rougher Ride On Uneven Terrain?	Kent	Kent	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 045
495	Walking With Added Mass Influences Ankle And Mid-Tarsal Joint Quasi-Stiffness	Kern	Kern	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 046
481	Effect Of Pediatric Obesity On Patellofemoral Joint Contact Force During Walking	Lerner	Kim	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 047
158	Motor Learning Response To Split-Belt Treadmill Walking After Non-Traumatic Amputation	Kline	Kline	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 048
439	Propulsion Force Symmetry During Walking In Patients With Peripheral Artery Disease	Leutzinger	Leutzinger	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 049
632	Scaling Force In The Flexor Digitorum Longus Tendon Using A Passive Implanted Mechanism: A Parameter Sensitivity Analysis	Ling	Ling	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 050
545	Females And Males Use Different Hip Mechanics In Response To Military-Relevant Loads	Loverro	Loverro	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 051
	Emg-Driven Opensim Analysis Of Knee Forces In Normal Weight, Overweight And Obese Subjects During Gait, Cycling And				Thursday,	3:30:00	5:00:00	
217	Elliptical Exercises Acute Effects Of Distance Running On Healthy Femoral Condyle	Klisch	Marino	Walking/Running	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 052
630	Cartilage Thickness And Volume: A Pilot Study	Mason	Mason	Walking/Running	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 053
563	A Comparison Of Running Mechanics In Marathon Racing Shoes Frictional Response Of Multiple Slip-Resistant Flat And Beveled	McCleod	McCleod	Walking/Running	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 054
179	Shoes To Normal Loading	Moghaddam	Moghaddam	Walking/Running	Aug. 9	PM	PM	Th 055
72	Estimation Of Dynamic Stability Of Fallers And Non-Fallers Utilizing Long-Term (3-Days) Wearable Sensor Data	Moon	Moon	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 056
460	Teaching Older Adults How To Fall Safely	Moon	Moon	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 057
360	Relationship Between Arch Structure, Mobility And Lower Extremity Injury In Runners	Morgan	Morgan	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 058
661	Discrepancies In Kinematics And Dynamics Of Mild And Severe Slipping	Beschorner	Nazifi	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 059
258	The Influence Of Spinal Cord Injury On Long-Term Gait Variability Examining The Effects Of Leg Stiffness On Vertical Ground	Rouhani	Noamani	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 060
501	Reaction Forces Using A Dual Spring Loaded Inverted Pendulum Model	O'Brien	O'Brien	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 061
76	Pre-Operative Hamstring Length And Velocity Do Not Explain The Reduced Effectiveness Of Repeat Hamstring Lengthening To Correct Crouch Gait In Children With Cerebral Palsy	Mueske	Osborne	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 062
414	Knee Adduction And Femoral Cartilage Characteristics In Obese And Normal Weight Adults	Pamukoff	Pamukoff	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 063
269	Modulation Of Foot Mechanical Work During Walking With Added Mass	Papachatzis	Papachatzis	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 064
384	The Influence Of Arch Type And Walking Speed On Peak Plantar Pressures	Paquette	Paquette	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 065
246	Alterations In Lower-Extremity Frontal Plane Joint Moment Due To Experimental Knee Pain And/Or Effusion During Walking	Park	Park	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 066
401	The Relationship Between The Foot'S Mechanical Energy And Heat	Patterson	Patterson	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 067
	Rate Of Force Development Of The Knee Extensor Moment During Loading Phase Of Gait Is Not Associated With Physical				Thursday,	3:30:00	5:00:00	
679	Function Average And Maximal Loading Rates During Hill Running Are Greater On A Soft, Grass Surface Compared To A Hard, Gravel	Pimentel	Pimentel	Walking/Running	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 068
576	Surface The Influence Of Body Size, Sex, And Gait Speed On Plantar	Porter	Porter	Walking/Running	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 069
483	Flexor Moment And Propulsive Force Medial And Lateral Knee Joint Contact Forces While Walking At	Post	Post	Walking/Running	Aug. 9	PM	PM	Th 070
442	Different Speeds	Cortes	Prebble	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 071
658	Comparison Of Socket Suspension Systems During Stair Ascent In Individuals With Transtibial Amputation	Rentuma	Rentuma	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 072
524	The Influence Of Localized Knee Fatigue On Lower Limb Dynamics During Walking	Robey	Robey	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 073
555	Haptic Feedback During Stair Descent	Rokhmanova	Rokhmanova	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 074
366	Walking With Visual Cueing Affects Cortical Hemodynamics	Rowen	Rowen	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 075
598	Comparison Of Three-Dimensional Ankle And Foot Kinematics Between Leardini And Oxford Multi-Segment Foot Models In Active, Healthy Elders	Alderink	Schoen	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 076
534	Comparison Of Subjective Electromyographic Onset Determination To Objective Techniques During Running	Schornstein	Schornstein	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 077
39	Sex Impacts Frontal Plane Grf And Knee Biomechanics During Drop Landing With Body Borne Load	Seymore	Seymore	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 078

167	Sagittal Pelvic Motion Of Patients With Unilateral, Transtibial Amputations Compared To Healthy Military Controls While Running Overground	Sharp	Sharp	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 079
567	Do Athletes Maximize Ground Reaction Forces And Power When Accelerating?	Sheets	Sheets	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 080
177	Effect Of Age And Body Mass Index On Mobility In Middle-Aged To Older Adults With And Without Lower Limb Amputation	Shih	Shih	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 081
363	Effect Of Different Step Widths During Gait Reveal Altered Trunk Kinematic Coordination During Low Back Pain Remission	Shih	Shih	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 082
614	The Influence Of Acl Retention In Total Knee Replacement On Walking And Stair Climbing Mechanics	Simon	Simon	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 083
112	Knee Angle And Axes Crosstalk Corrections In Gait, Bicycling And Elliptical Exercises Using Principal Component Analysis	Skaro	Skaro	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 084
627	Can Changing Running Shoes Immediately Reduce The Risk Of Tibial Stress Fractures?	Rylander	Tavares	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 085
436	Applied Gait Pattern Influences Spatial Changes In Contact Stress Calculated For Dysplasia Patients Following Periacetabular Osteotomy	Thomas	Thomas	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 086
588	The Impact Of Mechanical Load Carriage On Gait Mechanics In An Agrarian Sample	Trentadue	Trentadue	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 087
583	Long-Range Correlation In Human Joint-Angle Variability During Walking	Martin	Tsang	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 088
530	Knee Angles With Soft Tissue Artifact Correction For Normal Weight, Overweight And Obese Subjects In Gait And Cycling	Tucker	Tucker	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 089
568	The Benefit Of Different Marathon Shoes Through Various Running Mechanics	Valentine	Valentine	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 090
52	Sex Differences In Gluteal Muscle Forces During Running	Vannatta	Vannatta	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 091
317	The Effect Of Grade On Joint Mechanics During Downhill Running In Female Distance Runners	Wells	Wells	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 092
48	Gait Modification When Decreasing Double Support Percentage	Williams	Williams	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 093
	Comparison Of Patient-Reported Outcomes And Performance- Based Outcome Measures Over The Return To Run Program For				Thursday,	3:30:00	5:00:00	
450	Lower Extremity Injuries Knee Joint Loading During Gait In Independently Ambulatory	Wingate	Wingate	Walking/Running	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 094
180	Children With Spina Bifida	Mueske	Wren	Walking/Running	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 095
388	Comparing Two Measures Of Knee Valgus Angle	Zabala	Wright	Walking/Running	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 096
261	The Contribution Of Frontal Hip Power To Slope Walking	Yang	Yang	Walking/Running	Aug. 9	PM	PM	Th 097
88	Wide Step Width Alters Knee Loading During Stair Descent In Obese Participants Independent Metabolic Contributions Of Support Body Weight	Yocum	Yocum	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 098
163	And Accelerating Body Mass During Walking On Uphill/Downhill Slopes	Zai	Zai	Walking/Running	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 099
282	Effect Of Environment On Gait And Gaze During Walking In Older Adult Fallers	Zukowski	Zukowski	Walking/Running	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 100
490	Regular Running In Midlife May Be Protective Of Plantarflexor Function After A Prolonged Walk	Casto	Casto	Competition - Doctoral A	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 101
409	Lower Limb Joint Angle Variance As A Function Of Obstacle Height During Obstacle Crossing	Cui	Cui	Competition - Doctoral A	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 102
408	Estimating Gait Events And Locomotion State With A Beta Process Auto Regressive Hidden Markov Model	Donahue	Donahue	Competition - Doctoral A	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 103
185	A Novel Approach For Evaluating Compensatory Gait Strategies Using Mechanical Energetics	Ebrahimi	Ebrahimi	Competition - Doctoral A	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 104
454	Inconsistencies In Staircase Dimensions Impact Upon Stair Climbing Safety	Francksen	Francksen	Competition - Doctoral A	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 105
570	A Full-State Controller For The Simple Inverted Pendulum Biped Derived From Human Perturbation Experiments	Joshi	Joshi	Competition - Doctoral A	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 106
334	Effects Of A New Adaptive Ankle Prosthesis On Level And Sloped Walking	Lamers	Lamers	Competition - Doctoral A	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 107
1	Reliability And Feasibility Of An Inertial Measurement Unit Based Dual-Task Gait Balance Assessment	Chou	Pitt	Competition - Doctoral A	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 108
100	Exploring Movement Variability And Eeg Correlates During Motor Learning	Shattuck	Shattuck	Competition - Doctoral A	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 109
193	Gait Variability To Predict Motor Learning Of A Novel Motor Task	Ulman	Ulman	Competition - Doctoral A	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 110
239	Real-Time Music-Based Biofeedback To Reduce Impact Loading During Over-Ground Running	Van den Berghe	Van den Berghe	Competition - Doctoral A	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 111
440	Load Effects On Performance For Example Obstacles In An Outdoor Course Changes In Dynamic Motor Control Following	Vitali	Vitali	Competition - Doctoral A	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 112
620	Neurorehabilitation For Traumatic Brain Injury: Treadmill Vs Overground Walking	Acuna	Acuna	Competition - Doctoral B	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 113
356	On-Site Reactive Balance Training Among Residents Of Retirement Communities	Aviles	Aviles	Competition - Doctoral B	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 114
539	Patients With Medial Knee Oa Vary In The Kinetic Response To Plantar Pressure-Based Feedback	Wimmer	Не	Competition - Doctoral B	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 115
325	Cervical Spine Biplanar Fluoroscopy: Automated Shape- Matching Algorithm Validation	Ellingson	Kage	Competition - Doctoral B	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 116
191	The Effect Of Scapulothoracic Upward Rotation On Subacromial Proximities	Lawrence	Lawrence	Competition - Doctoral B	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 117

	Changes In Hip Mechanics During Gait Modification To Reduce			Competition -	Thursday,	3:30:00	5:00:00	
444	Knee Adduction Moment Comparison Of Joint Kinetics Using Common Models For	Cortes	Lindsey	Doctoral B Competition -	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 118
549	Baseball Pitching	McNally	McNally	Doctoral B	Aug. 9	PM	PM	Th 119
339	L5/S1 Joint Load Estimation During Lifting Using A Deep Learning Based Method	Mehrizi	Mehrizi	Competition - Doctoral B	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 120
532	Gait Asymmetries 6 Months Post-Aclr Associate With Inter-Limb T1Rho Ratios 12-Months Post-Aclr	Pfeiffer	Pfeiffer	Competition - Doctoral B	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 121
438	Running-Specific Prosthetic Model Affects Top Sprinting Speed In Athletes With Unilateral Transtibial Amputations Longitudinal Changes In Cartilage Composition Are Associated	Southern	Southern	Competition - Doctoral B	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 122
432	With Abnormal In Vivo Knee Mechanics Following Acl Reconstruction Estimates Of Achilles Tendon Moment Arm With Axis Of	Vignos	Vignos	Competition - Doctoral B	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 123
394	Rotation Determined From Ankle Motion Versus Anatomical Landmarks Finger Muscles Injected With Botulinum Toxin Demonstrate	Piazza	Wade	Competition - Doctoral B	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 124
646	Increased Passive Stiffness And Decreased Passive Range Of Joint Motion In Individuals With Chronic Hemiparetic Stroke	Binder-Markey	Binder-Markey	Competition - Doctoral C	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 125
302	Older Adults Reverse Their Distal-To-Proximal Redistribution Using Biofeedback	Browne	Browne	Competition - Doctoral C	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 126
129	Triceps Surae Muscle-Subtendon Interaction Differs Between Young And Older Adults	Clark	Clark	Competition - Doctoral C	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 127
546	Does Fatigue Affect Wrist Kinematics During A Repetitive Pick- And-Place Task? Pathological Knee Joint Condition In Children With Cerebral	DeDecker	DeDecker	Competition - Doctoral C	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 128
379	Palsy Is Associated With The Active State Muscular Mechanics Rather Than Passive	Ates	Кауа	Competition - Doctoral C	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 129
675	How Does Achilles Tendon Twisting Influence Strain And Energy Storage?	Knaus	Knaus	Competition - Doctoral C	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 130
368	Post-Operative Function And Muscle Modules During Gait At 6 And 24 Months Following Total Knee Arthroplasty	Koehn	Koehn	Competition - Doctoral C	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 131
377	Post-Stroke Walking Mechanics Using A Speed-Adaptive Myoelectric Exoskeleton Controller	McCain	McCain	Competition - Doctoral C	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 132
466	Evaluating The Postural Ergonomics Of Ophthalmologists Using Kinematic Motion Analysis And Electromyography	Siddicky	Siddicky	Competition - Doctoral C	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 133
496	In Vivo Relationship Between Joint Stiffness, Joint-Based Estimates Of Muscle Stiffness, And Shear Wave Velocity Effect Of Local Muscle Fatigue On Low-Frequency Common	Vigotsky	Vigotsky	Competition - Doctoral C	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 134
74	Input To Bilateral And Unilateral Plantar Flexors During Quiet Standing	Watanabe	Watanabe	Competition - Doctoral C	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 135
636	Computational Model Of Muscle Injury Validated With In Situ Experiments	Westman	Westman	Competition - Doctoral C	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 136
243	Energetics And Leg Stiffness Of Hopping With Different Exoskeleton Spring Stiffness Profiles In Parallel To The Legs	Allen	Allen	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 137
550	Comparison Of Machine Learning Algorithms For Activity Classification Using Emg	Anderson	Anderson	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 138
652	Vertical Ground Reaction Forces And Loading Rates When Running With Running-Specific And Daily Use Prostheses	Baum	Baum	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 139
468	Wearing An Ankle-Foot Orthosis Immediately Improves Walking Performance In Patients With Peripheral Artery Disease	Beier	Beier	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 140
99	A Comparative Evaluation Of Different Wearable Devices On Lower Extremity Kinematics In Upright Kneeling While On A Roof	Breloff	Breloff	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 141
7	How Does Touch Influence Postural Stability Of Single Leg Stance? Comparison Of Constant Weight Compensation And Inertia	Soangra	Cabrales	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 142
693	Compensation For Knee And Ankle Joints In Wheel-Type Weight-Bearing Gait	Choi	Choi	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 143
638	Mechanical Work Adaptations Using A Transtibial Prosthesis During The First Three Months Of Unassisted Ambulation	Collins	Collins	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 144
422	Positional And Postural Effect Of A Visual Biofeedback Device During Rollator Walker Use: A Device Validation	Bigelow	Golembiewski	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 145
457	Mechanically Passive Portable Shoulder Exoskeleton: Preliminary Design And Biomechanical Analysis	Hall	Hall	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 146
407	Improving Quantitative Predictions Of A Human-Prosthesis Simulation	Handford	Handford	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 147
541	Effect Of Night Vision Goggle Technologies On Task Performance During A Room Clearance Task	Higginson	Higginson	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 148
669	Effect Of Toe Stiffness On The Push-Off And Joint Trajectories For The Powered Transfemoral Prosthesis: A Pilot Study	Hong	Hong	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 149
696	Effect Of A Foot Pad On The Push-Off And Joint Trajectories For The Powered Transfemoral Prosthesis: A Pilot Study	Hur	Hong	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 150
267	Energy Expenditure During Geared Manual Wheelchair Propulsion In Individuals With Spinal Cord Injury	Jahanian	Jahanian	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 151
607	Powered Knee-Ankle Prosthesis And Dual-Task Walking In Unilateral Transfemoral Amputees Effects Of Isokinetic Bi-Axial Ankle Movement Training On Ankle	Jayaraman	Jayaraman	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 152
650	Muscle Coactivation Pattern During Bilateral Standing In The Elderly With Post-Stroke Hemiparesis	Kim	Kim	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 153
245	Simulated Development Of An Assistive Device To Aid Older Adults In Ascending Stairs	Lee	Lee	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 154
43	Developing An Exoskeletal Device To Increase The Efficiency Of Moderate Running The Influence Of Return To Run Program On Foot Strike And	Goehler	Luanpaisanon	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 155
498	Loading Rate While Running Using A Passive-Dynamic Ankle- Foot Orthosis	Maun	Maun	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 156

	Design Of A Fragile Object For Evaluating Grip Performance With			Prosthetics and	Thursday,	2:00:00	3:30:00	
611	Powered Prostheses Reliability Testing Of The Smapp Device For Characterizing Ankle	Zhao	McCollough	Assistive Devices Prosthetics and	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 157
472	Foot Orthosis Stiffness	Menon	Menon	Assistive Devices	Aug. 9	PM	PM	Th 158
594	Characterization Of Eccentric Motor Deficiencies In Individuals With Incomplete Spinal Cord Injury	O'Brien	O'Brien	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 159
159	Predicting Interaction Forces Between Upper Extremities And Support Devices	Odle	Odle	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 160
580	Differences In Mechanical Demand Imposed On The Shoulder During Manual Wheelchair Propulsion In The Community	Рарр	Рарр	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 161
30	Optimizing A Variable Stiffness Transverse Plane Adapter For Lower Limb Amputees	Pew	Pew	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 162
504	Development Of A Semg-Based Silent Speech Recognition System	Roy	Roy	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 163
537	Impact Of Forces On Pediatric Posterior Walker On Work In Cerebral Palsy Gait	Russell	Russell	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 164
656	Simulating Ankle Torque During Walking Using A New Bioinspired Muscle Model With Application For Controlling A Powered Exoskeleton	Lerner	Sadegh Pour Aji Bishe	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 165
155	Dependence Of Agency And Performance On Visualized Precision Pinch Force	Nataraj	Sanford	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 166
210	Discrete Visual Feedback On Short-Term Retention Of Learned Movements		Sanford	Prosthetics and Assistive Devices	Thursday,	2:00:00 PM	3:30:00 PM	Th 167
		Nataraj		Prosthetics and	Aug. 9 Thursday,	3:30:00	5:00:00	
603	Effect Of Foot Plate Length On Healthy Gait A Haptic Biofeedback Cane To Reduce Degenerative Loading In	Schmithenner	Schmithenner	Assistive Devices Prosthetics and	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 168
566	The Arthritic Knee Granular Jamming Foot Orthosis For Emulating A Range Of	Schuster	Schuster	Assistive Devices Prosthetics and	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 169
322	Biomechanical Properties	Chang	Simonds	Assistive Devices	Aug. 9	PM	PM	Th 170
148	Subthreshold Vibration Does Not Affect Walking Performance Of Transtibial Amputees	Sloan	Sloan	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 171
491	Development Of An Upperlimb Musculoskeletal Wheelchair Propulsion Model	Strong	Strong	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 172
619	Advanced Prosthetic Control From A Noninvasive Neural Interface (Mu Drive)	Kline	Twardowski	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 173
642	Modifications In Wheelchair Propulsion Mechanics After Wheelchair Reconfiguration	Wiens	Wiens	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 174
331	Technical, Clinical And Functional Considerations For The Development Of 3D Printed Upper-Limb Prostheses	Young	Young	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 175
610	Validation Of An Instrumented Knee Brace For Tracking Knee Flexion/Extension Angles During Activities Of Daily Living	Young	Young	Prosthetics and Assistive Devices	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 176
649	Automated Gait Segmentation For A Novel Gait Tracking Knee Brace	Young	Young	Prosthetics and Assistive Devices	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 177
288	Effect Of Surfaces With Different Stiffness On Body Kinematics While Rolling	Hakansson	Agrawal	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 178
290	Differences In Mechanical Energy Of Human Rolling On Different Surfaces	Hakansson	Agrawal	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 179
540	Development Of A Pelvic Model For Study Of Surgical Errors In The Midurethral Sling Procedure	Arif	Arif	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 180
164	Influence Of Forward Trunk Flexion During Stair Ascent On The Average Rate Of Pfj Stress Development	Atkins	Atkins	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 181
410	Trunk Kinematics During Simulated Roof Shingle Installation	Carey	Carey	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 182
403	Relationship Between Medial Longitudinal Arch Angle And First Ray Motion During Walking	Becker	Casillas	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 183
695	Using Inertial Measurement Units To Measure Long-Term Recovery After Total Knee Arthroplasty	Chapman	Chapman	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 184
697	Assessing Recovery In Total & Reverse Shoulder Arthroplasty Via Inertial Measurement Units	Chapman	Chapman	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 185
	Individuals With Multiple Sclerosis Exhibit More Regular Center			Clinical and Real-	Thursday,	3:30:00	5:00:00	
96	Of Mass Accelerations After Physical Therapy. Inertial Loading Of The Pediatric Head Exceeds Neck Injury	Kurz	Davies	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 186
418	Tolerance Prior To Head Injury Tolerance	Button	Davison	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 187
259	Simple Gait Parameters And Function In Tka Effects Semitendinosus Tendon Stiffness On Isokinetic Force And	Delventhal	Delventhal	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 188
683	Torque: Implications For Acl Repair	Domire	Domire	world Applications	Aug. 9	PM	PM	Th 189
383	Anticipatory Neck Muscle Activity In Automatic And Manual Emergency Braking	Douglas	Douglas	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 190
24	Capsulotomy And Repairs On Torsional Stability Of The Hip	Wang	Douros	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 191
398	An Upper-Extremity Function Dual-Task To Identify Cognitive Status Of Older Adults	Ehsani	Ehsani	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 192
173	Muscle And Joint Contact Forces While Rowing On An Adapted Ergometer	Fang	Fang	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 193
242	How Does Ergometer Setup And Rowing Speed Affect Biomechanics During Rowing On An Adapted Ergometer Designed For People With Spinal Cord Injury	Fang	Fang	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 194
81	The Effect Of Transitioning From A Rearfoot Strike To A Non- Rearfoot Strike On Running Impulses Per Step	Freisinger	Freisinger	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 195
413	Effects Of Prosthetic Socket Suspension On Knee Proprioception And Dynamic Balance In Transtibial Amputees	Gao	Gao	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 196

178	Development Of A Charged Opf Hydrogel-Scaffold System For The Treatment Of Vertebral Failure In Metastatic Spines	Giambini	Giambini	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 197
19	Establishing Norms For Weight-Bearing Hip Rotation Range Of Motion	Gulgin	Gulgin	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 198
146	How Femoral Version Changes Joint Loading In Patients With Developmental Dysplasia Of The Hip	Harris	Harris	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 199
698	Determining Cervical Disc Injury Potential In Motor Vehicle Collisions	Hashish	Hashish	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 200
	Single Leg Land Provides Unique Insight Into Landing Mechanics			Clinical and Real-	Thursday,	2:00:00	3:30:00	
316	In Female Athletes Post-Acl/R Mechanical Characterization And Biomechanical Computaional	Hatcher	Hatcher	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 201
266	Modeling Of Short Bowel Syndrome An Investigation Of Buckling Complications In Spinal Anesthesia	Hosseini	Hosseini	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 202
605	Administration Procedures	Hulburt	Hulburt	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 203
378	Sample Sizes Of Statistical Model For The Elderly	Hwang	Hwang	world Applications	Aug. 9	PM	PM	Th 204
54	Radioulnar Wrist Compression For Carpal Tunnel Syndrome Treatment: A Preliminary Clinical Study	Li	Jenkins	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 205
301	Biomechanics Response To Acute Patellofemoral Pain In Running	Jewell	Jewell	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 206
335	Gait Performance In Bipolar Disorder: A 6-Month Pilot Longitudinal Study	Kang	Kang	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 207
686	Wearable Sensors For Assessment Of Varus Thrust In Knee Osteoarthritis: A Proof Of Concept	Kumar	Kumar	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 208
98	Relating Functional Task Performance To Rotator Cuff Pain In A Breast Cancer Survivor Population	Lang	Lang	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 209
230	Development And Assessment Of A Low-Cost Clinical Gait Analysis System	Littrell	Littrell	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 210
508	3D Models Of Neck Strength In Three Cardinal Planes Of Motion	Frey Law	Looft	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 211
184	Characterization Of Dynamic Ankle Stiffness In Individuals With Spasticity	Kaufman	Loushin	Clinical and Real- world Applications	Thursday,	3:30:00 PM	5:00:00 PM	Th 212
	Muscle Comparisons And Reliability Of A Novel Method To			Clinical and Real-	Aug. 9 Thursday,	2:00:00	3:30:00	
160	Assess Rate Of Force Relaxation Trunk Compensatory Strategies Persist Twelve Months	Uygur	Mathern	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 213
295	Following Total Knee Arthroplasty Resultant Lower Limb Acceleration And Ground Reaction Forces	McClelland	McClelland	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 214
312	Are Correlated In The Time And Frequency Domains Passive Hamstring Muscle Stiffness Assessed In High School	McGeehan	McGeehan	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 215
18	Athletes Using Shear Wave Elastography Orbital Stability During Dual-Task Treadmill Walking In Cancer	McPherson	McPherson	world Applications	Aug. 9	PM 2:00:00	PM 3:30:00	Th 216
207	Patients Pasive And Active Knee Joint Stiffness During High-Velocity	Monfort	Monfort	Clinical and Real- world Applications	Thursday, Aug. 9	PM	PM	Th 217
278	Threshold To Detect Passive Motion Test In Ad-Reconstructed Subjects	Nagai	Nagai	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 218
684	Prophylactic Ankle Bracing Alters Lower Extremity Kinematics During Landing	Nelson	Nelson	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 219
56	In Vitro Reduction Of Wrist Pressure During Antebrachial Tissue Manipulation	Li	Norman	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 220
519	Differences In Resultant Joint Forces And Moments At L4/L5 Between Participants With And Without Back Pain	Nunez	Nunez	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 221
	Comparison Of Ground Reaction Forces And Knee Joint Moments Between Parkinson, Äôs Disease And Healthy Older							
213	Adults Using A Kinect-Driven Musculoskeletal Gait Analysis Model	Oh	Oh	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 222
529	Phase Offset Error Attenuation In Pattern Based Feedback For Gait Retraining	Oliveira	Oliveira	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 223
119	Post-Trial Feedback Using A Portable Clinical System May Alter Landing Performance	Rutherford	Onsager	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 224
224	Internal Knee Joint Abduction Moments Of Acl Reconstruction Patients During Gait And Cycling Using Opensim	Pottinger	Pottinger	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 225
475	Shear Lag In A Partially Failed In Fiberwire Surgical Suture	Qwam Alden	Qwam Alden	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 226
13	Evidence Behind Alternative Computer Mouse Designs: A Systematic Review Of Controlled Trials	Radwan	Radwan	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 227
558	Prediction Of Female Injury In Automotive Crash Environments	Roberts	Roberts	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 228
84	Work Envelope In Native And Non-Native Signers	Roman	Roman	Clinical and Real-	Thursday,	2:00:00 PM	3:30:00 PM	Th 229
	Intervertebral Disc Herniation Risk During Low-Speed Lateral			world Applications Clinical and Real-	Aug. 9 Thursday,	3:30:00	5:00:00	
429	Collisions Biomechanical Indicators Of Movement Disorders In	Rossman	Rossman	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 230
511	Parkinson,Äôs Disease Spatial Differences In Nerve Mechanical Properties Using Shear	Roy	Roy	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 231
602	Wave Elastography The Effect Of Excising A Supra-Scapula Spine Lipoma On Scapular	Rugel	Rugel	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 232
671	Kinematics Development Of Low Cost 3D Printed Anatomical Models For	Rundquist	Rundquist	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 233
449	Pre-Surgical Planning	Salazar	Salazar	world Applications	Aug. 9	PM	PM	Th 234
109	Finger Extensor Muscle Stiffness Predicts Clinical Assessment Of Extensor Weakness	Schilaty	Schilaty	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 235

	Feedback On Patellofemoral Joint Load Influences Squat			Clinical and Real-	Thursday,	3:30:00	5:00:00	
47	Performance The Effect Of Distraction On Dermal Patch Reconstruction Of	Kernozek	Schiller	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 236
406	The Hip Capsule	Miller	Schimoler	world Applications	Aug. 9	PM	PM	Th 237
420	Chronological Comparison Of Walking Ground Reaction Force In Individuals With Aclr	Seeley	Seeley	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 238
446	In Vitro Simulation Of Torque-Induced Rotator Cuff Tears	Kersh	Shanley	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 239
319	Development Of Force-Space Navigation For Surgical Robotics	Smith	Smith	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 240
427	Simulation Of Occupant Kinematics In Low-Speed Lateral Collisions Using Articulated Total Body	Sproule	Sproule	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 241
291	Comparison Of Dynamic Joint Kinematics During Shoulder Elevation In Healthy Controls And Individuals Diagnosed With Multidirectional Instability	Staker	Staker	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 242
268	Overground Walking Knee Biomechanics Of Dissatisfied Total Knee Replacement Patients	Valenzuela	Valenzuela	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 243
202	Estimating Walking Speed Using A Single Camera In The Line Of Progression	Varre	Varre	Clinical and Real- world Applications	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 244
505	Characterizing Upper Extremity Function Using Real World Evidence	Kaufman	Webber	Clinical and Real- world Applications	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 245
	Effects Of Trunk Movement Retraining On Gait Mechanics Of A			Clinical and Real-	Thursday,	3:30:00	5:00:00	
553	Patient With Transtibial Amputation Validation Of Micro Spikes For Mounting An Implant To A	Yoder	Yoder	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 2:00:00	PM 3:30:00	Th 246
640	Tendon Hopping Performance In Individuals With Achilles Tendon Rupture: Applying A Constituent Lower Extremity Work	Balasubramanian	You	world Applications Clinical and Real-	Aug. 9 Thursday,	PM 3:30:00	PM 5:00:00	Th 247
174	Approach	Ebrahimi	Zellers	world Applications	Aug. 9	PM	PM	Th 248
386	Development Of A Musculoskeletal Finite Element Analysis Method For Dynamic Bone Stress Analysis Of Proximal Femur	Adachi	Adachi	Bone, Cartilage, & Tendon	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 249
469	Development Of A Structural Stochastic Finite Element Model Of Cancellous Bone	Alrafeek	Alrafeek	Bone, Cartilage, & Tendon	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 250
367	A Comprehensive Testing Suite For Mechanical Characterization Of Articular Cartilage With Documented Repeatability	Chokhandre	Chokhandre	Bone, Cartilage, & Tendon	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 251
338	Temporal Response Of Muscle-Bone Deformities At The Shoulder Following Brachial Plexus Birth Injury	Dixit	Dixit	Bone, Cartilage, & Tendon	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 252
387	A Comparison Of The Mechanical Properties Of Trabecular Bone Between Micro-Finite Element And Meshless Models	Ip	lp	Bone, Cartilage, & Tendon	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 253
348	Associating Bone Mineral Density With Dynamic Skeletal Loading In Post-Menopausal Women	Fortune	Madansingh	Bone, Cartilage, & Tendon	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 254
73	Estimation Of Mechanical Load In-Vivo Based On The Trabecular Bone In The Vertebaral Body	Mano	Mano	Bone, Cartilage, & Tendon	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 255
629	Effects Of Exercise And Posture On Subchondral Bone Thickness	Kersh	Rahman	Bone, Cartilage, & Tendon	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 256
324	Effect Of Tumor Size And Location Within Vertebral Body On Fracture Risk	Lu	Rezaei	Bone, Cartilage, & Tendon	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 257
644	Strain Rate Dependent Responses Of The Engineered And Native Cartilage	Seifzadeh	Seifzadeh	Bone, Cartilage, & Tendon	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 258
596	Experimental Measurement Of The Cutting Forces Generated During A Robot-Driven Glenoid Reaming Procedure	Sharma	Sharma	Bone, Cartilage, & Tendon	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 259
262	Local Thickness Of The Human Skull Affects Patterns Of Cranial Fracture	Wei	Snyder	Bone, Cartilage, & Tendon	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 260
476	Relating Gait And Bone Growth In Rat Tibia	Song	Song	Bone, Cartilage, & Tendon	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 261
355	Tendon Allograft Processing And Reconstitution	Thoreson	Thoreson	Bone, Cartilage, & Tendon	Thursday, Aug. 9	3:30:00 PM	5:00:00 PM	Th 262
29	Development Of Pelvis Model For Biomechanical Evaluation Of Minimally Invasive Acetabular Reconstruction	Wang	Tutton	Bone, Cartilage, & Tendon	Thursday, Aug. 9	2:00:00 PM	3:30:00 PM	Th 263
680	Effects Of Ankle Bracing On Knee And Hip Torques During Landing	Arnwine	Arnwine	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 001
293	Tibialis Anterior In Vivo Muscular Activity Decreases With Age	Ates	Ates	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 002
	Landing Biomechanics Differ Between Professional Dancers And Non-Dancers: Experimental And Preliminary Modeling Approaches			Lower Extremity	Friday,	3:00:00	4:30:00	
677	External Load Contributions To Acl Strain In Multiplanar Loading	Cortes	Azevedo		Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 003
25	During Simulated Landings Influence Of Injury Risk Profiles On Acl Strain During Simulated	Bates	Bates	Lower Extremity	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 004
26	Landings Video Analysis Of Second Acl Injury Events In Male Professional	Bates	Bates	Lower Extremity	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 005
27	Athletes Knee Loading Correlations With Acl Geometries During	Bates	Bates	Lower Extremity	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 006
34	Simulated Landings Adaptation Of Lower Limb Joint Work In Single Leg Hopping	Bates	Bates	Lower Extremity	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 007
32	Adaptation of Lower Linit Joint Work in Single Leg Hopping After Unilateral Ankle Fatigue	Bell	Bell	Lower Extremity	Aug. 10	PM 3:00:00	PM	Fr 008
689	Zero Echo Time (Zte) Imaging Bone And Joints Sagittal Plane Trunk And Lower Extremity Movement During A	Breighner	Breighner	Lower Extremity	Friday, Aug. 10	PM	4:30:00 PM	Fr 009
628	Single Leg Drop Task At 6 And 12 Months After Anterior Cruciate Ligament Reconstruction	Briggs	Briggs	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 010
78	Number Of Successive Crank Cycles Needed To Achieve Stable Pedal Forces Data	Buddhadev	Buddhadev	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 011

	Frontal Plane Biomechanics During A Single Leg Hop Task Are							
389	Correlated With Quality Of Life And Confidence In Patients With Anterior Cruciate Ligament Reconstruction	Chen	Chen	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 012
130	Activation-Dependent Changes In Soleus Length-Tension Behavior Augment Ankle Stiffness	Clark	Clark	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 013
15	The Effect Of Hamstring Foam Rolling On Knee And Hip Joint Proprioception	Amasay	David	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 014
116	The Effect Of Mid-Flight Trunk Flexion And Extension On Center Of Mass Redistribution And Landing Mechanics	Davis	Davis	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 015
503	Measurement Of Knee Angles At Landing And Peak Ground Reaction Force Using Wearable Sensors	Esquivel	Esquivel	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 016
308	Quantifying Knee Injury Risk During A Wrestling Takedown	Altman-Singles	Fox	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 017
400	Single-Joint Strength Curves From A Multi-Joint Task	Fox	Fox	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 018
631	Comparing Patellefemoral Joint Stress Of Various Movements Optimizing Whole Body Kinematics To Reduce Peak Non-Sagittal	Gheidi	Gheidi	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 019
345	Plane Knee Loads During Single Leg Jump Landing Task To Reduce Risk Of Acl Injury	Gupta	Gupta	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 020
226	Segment Coordination Variability Changes During Back Squats With Biofeedback	Hannan	Hannan	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 021
443	Testing Of Rubber Bumpers For Improvement Of The Single Axis Foot	Hein	Hein	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 022
64	Effects Of Ankle Tendon Vibration On Post-Stroke Ankle Proprioception	Herrmann	Herrmann	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 023
139	Evaluation Of Three Dimensional Knee Cruciate & Collateral Ligament Strain With Digital Image Correlation	Hooke	Hooke	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 024
299	The Relationship Between Golf Stance And The Lead Limb Peak Knee Adduction Moment	Hooker	Hooker	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 025
62	Sex And Not Functional Ankle Instability Impact Peroneal Muscle Parameters	Ihmels	Ihmels	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 026
575	Dominant Limb Lower Extremity Work Predicts Performance In Individuals With Low Back Pain	Johnson	Johnson	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 027
31	Lower Limb Biomechanics During Single-Leg Landings Following Acl Reconstruction: A Systematic Review And Meta-Analysis.	Johnston	Johnston	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 028
61	3D Motion Analysis Of Successful Versus Failed Single-Leg Landings After Acl Reconstruction	Johnston	Johnston	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 029
533	Limb Asymmetries Post Acl Reconstruction: Can You Make The Decision?	Kakar	Kakar	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 030
251	Verbal Encouragement Does Not Produce Additive Effect On Quadriceps Function As Long As Sufficient Rest Period Is Provided	Park	Kim	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 031
455	Developing The Sensitivity Of A Human Ankle Joint Finite Element Model To The Thickness Of Cartilage	Kim	Kim	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 032
590	Biomechanical Characteristics Of Subtalar Joint Axis Of Rotation Individual With Chronic Ankle Instability	Kim	Kim	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 033
423	The Effects Of Muscular Fatigue And Gender On Knee Kinetics And Kinematics During The Forward Lunge	Lipat	Lipat	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 034
247	Decision-Making Influences Tibial Impact Accelerations During Lateral Cutting	Almonroeder	Lucas	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 035
359	The Effect Of Joint Hypermobility On Hip And Knee Kinetics And Strength In Adolescents With Juvenile Fibromyalgia	Marulli	Marulli	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 036
522	Posterior Lateral Tibial Contact With Lateral Wedging In Medial Osteoarthritis	Barrance	Mejia	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 037
77	Biomechanical Symmetry During Drop Jump And Single-Leg Hop Landing In Uninjured Adolescent Athletes	Mueske	Mueske	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 038
277	Sex Differences In Passive And Active Joint Stiffness During High- Velocity Threshold To Detect Passive Motion Test	Nagai	Nagai	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 039
234	Comparison Of Knee Biochemical Variables In Involved And Uninvolved Knees 6 Months Post AcIr	Neal	Neal	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 040
298	Inertial Parameter Changes Of The Shank And Thigh During Stamping	Pain	Pain	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 041
69	The Influence Of Patellar Tilt On Patellar Tendon Stress: A Sensitivity Analysis	Powers	Park	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 042
153	Effect Of Foot Rotation On Knee Mechanics During An Anticipated Running And Cutting Task	Peel	Peel	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 043
521	Regulation Of Whole Body Angular Impulse While Performing Golf Swings With Short And Mid Irons	Peterson	Peterson	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 044
488	Broad Jump Performance And Basketball Shoe Bending Stiffness	Picco	Picco	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 045
556	Injury Prevention Based On Computer Modeling Of Cleat Traction	Rittenhouse	Rittenhouse	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 046
248	Quadriceps Activation And Strength Changes During Repetitive Exercise In Individuals With Anterior Knee Pain	Park	Roh	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 047
241	Effect Of Meniscectomies On Acl Strain: A Dynamic Finite Element Study	Sadeqi	Sadeqi	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 048
197	Initiation And Propagation Of Microcracks In Collagen Networks Of Cartilage	Pierce	Santos	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 049
16	Effect Of Filter Cutoff On Impact Simulator Data: Artefact Of Artefiction	Schilaty	Schilaty	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 050
17	Medial Collateral Ligament Strain Characteristics At Anterior Cruciate Ligament Failure	Schilaty	Schilaty	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 051

	Ankle Kinematics And Kinetics Are Altered When Rounding A				Friday,	4:30:00	6:00:00	
156	Raised Base	Schroeder	Schroeder	Lower Extremity	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 052
289	Material Properties Of The Thigh: Body Position Matters	Reid Bush	Scott	Lower Extremity	Aug. 10	PM 4:30:00	PM 6:00:00	Fr 053
192	Reliability Of Motor Variability Among Healthy Controls And Athletes In A Side-Hop Task	Ulman	Ulman	Lower Extremity	Friday, Aug. 10	4.30.00 PM	PM	Fr 054
477	Influence Of Vibration Intensity On Lower Limb Joint Loading During Standing	Yang	Underdahl	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 055
625	Effect Of Post Activation Potentiation On Knee Angle During Rebound Jumps	Walker	Walker	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 056
169	Verbal Instruction Reduces Patellofemoral Joint Loading During Bodyweight Squatting	Almonroeder	Watkins	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 057
678	Testing The Efficacy Of Acl Injury Prevention Programs Through Opensim	White	White	Lower Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 058
118	Impact Attenuation Of Biomechanics In Drop Landing On Synthetic Turf With Shock Pad	Zhang	Zhang	Lower Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 059
604	Agent-Based Computational Model Of Human Skeletal Muscle Adaptation To Changes In Activity	Anton	Anton	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 060
38	Effect Of Arm Motion On Standing Lateral Jump Performance	Ashby	Ashby	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 061
93	Differences In Knee Flexibility During Functional Movements Between Track And Field Athletes Based On Event Participation	Goehler	Austin	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 062
307	Laboratory And On-Field Results Of Athlete Head Impact Monitoring	Bartsch	Bartsch	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 063
485	Kinetic And Kinematic Differences In Weightlifting Movements With And Without The Use Of A Double Knee Bend	Carnall	Carnall	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 064
647	Sex Differences In Joint Kinetics During A Restricted Vertical Jump	Daugherty	Daugherty	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 065
578	Pacing Strategy Changes As Age Increases In Long Distance Runners	Agresta	Davis	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 066
435	Lower Extremity Biomechanics Are Altered In A Sport-Specific Virtual Environment	DiCesare	DiCesare	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 067
22	Kinematic And Kinetic Differences Between Left- And Right- Handed Professional Baseball Pitchers	Diffendaffer	Diffendaffer	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 068
369	Modelling Traction Forces During Boot-Surface Interactions	Forrester	Forrester	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 069
321	A Comparison Of Total Body Band-Resisted Exercises On Gluteus Medius Activation	Oliver	Friesen	Sports and Exercise	Friday,	4:30:00 PM	6:00:00 PM	Fr 070
	Effect Of Late Training Sessions On Recovery: A Study Of Heart				Aug. 10 Friday,	3:00:00	4:30:00	
244	Rate Variability In Women,Äôs Soccer Determining Kinematics Parameters That Dictate Successful	Johnson	Grotelueschen	Sports and Exercise	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 071
63	Completion Of The Hurdle Step Functional Movement "Investigating The Complexity Of Movement Patterns During	Goehler	Harrold	Sports and Exercise	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 072
95	American Football Competition" Effects Of Finger Taping On Forearm Muscle Activation In Rock	Hasenkamp	Hasenkamp	Sports and Exercise	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 073
142	Climbers Developing Methods Of Fatigue Analysis And Injury Prevention	Johnson	Johnson	Sports and Exercise	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 074
45	In Baseball Pitchers: A Study Using Motus Sensors The Effect Of Player Performance On Head Impact Exposure In	Goehler	Joslyn	Sports and Exercise	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 075
474	Youth Football Quantifying Human Motion In Swimmers Using Inertial	Kelley	Kelley	Sports and Exercise	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 076
42	Measurement Units Individual Cross Punch Versus Combination Cross Punch	Goehler	Main	Sports and Exercise	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 077
528	Mechanics	Mazurek	Mazurek	Sports and Exercise	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 078
121	Landing Characteristics Of Beanbag And Koosh Ball Throws	Meyer	Meyer	Sports and Exercise	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 079
273	Effects Of Sex And Age On Hamstrings And Quadriceps Strength And Ratio In High School Basketball Players	Nagai	Nagai	Sports and Exercise	Aug. 10	PM	PM	Fr 080
274	Effects Of Sex And Age On Hip Flexors And Hamstrings Flexibility In High School Basketball Players	Nagai	Nagai	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 081
275	Neuromuscular Characteristics Of High School Basketball Players Who Later Suffered Hamstrings Strains: Preliminary Findings	Nagai	Nagai	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 082
51	Hop Distance And Loading Symmetry In Acl Reconstructed Athletes During Return To Sport Testing	Peebles	Peebles	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 083
691	Effects Of Age On Skeletal And Muscular Contributions To Leg Stiffness	Powell	Powell	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 084
405	Critical Factors In The Weight Throw For Collegiate Throwers	Becker	Schroeder	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 085
648	Wavelet Transform Analysis Countermovement Jump Performance Muscle Activation Analysis With Kinematic Comparison Between	sha	sha	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 086
11	Wind-Up And Stretch Pitching With Respect To The Upper And Lower Extremities	Smidebush	Smidebush	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 087
36	On The Plyometric Nature Of Olympic Weightlifting	Squillante	Squillante	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 088
381	Biomechanics Differ In High School Pitchers Based On Injury History	Struminger	Struminger	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 089
667	Upper Extremity Forces During Water Tubing	Suderman	Suderman	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 090
382	Analysis Of Ground Reaction Force Components During The Golf Swing	Trunt	Trunt	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 091

87	The Effects Of Resistance Bands On Trapezius Activity During Full-Body Exercises	Oliver	Wasserberger	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 092
	Asymmetries In Knee Extensor Moments During Fatigue In		Ū		Friday,	3:00:00	4:30:00	
237	Athletes Who Sustain Bilateral Acl Injuries	Webster	Webster	Sports and Exercise	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 093
690	It Matters What You Curl, But Not To The Biceps Brachii Center Of Mass Movement And Lower Limb Mechanics During	Weimar	Weimar	Sports and Exercise	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 094
657	Standing Cycling	Wilkinson	Wilkinson	Sports and Exercise	Aug. 10	PM	PM	Fr 095
44	Quantification Of The Shock Absorption Performance Of Construction Helmets In Top Impact	Wu	Wu	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 096
199	Effect Of Sex On Centre Of Mass During Sidestepping	Wyatt	Wyatt	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 097
451	Influence Of Chinstrap Attachment Location On American Football Helmet Impact Performance	York	York	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 098
149	Efficacy Of A New Football Helmet Liner Mechanism On Head Impact Accelerations	Yount	Yount	Sports and Exercise	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 099
694	Diversity In Shoulder And Abdominal Muscle Activation Patterns Used During The Volleyball Spike	Zaferiou	Zaferiou	Sports and Exercise	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 100
117	The Effect Of Mid-Flight Whole-Body And Trunk Rotation On Landing Mechanics	Critchley	Critchley	Competition - Masters	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 101
133	Modular Control Of The Timed-Up-And-Go Test In Stroke Survivors	Allen	McDonald	Competition - Masters	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 102
548	Time-Course Changes Of Treadmill Running Kinematics In Different Footwear	Paquette	Melaro	Competition - Masters	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 103
592	Changes In Structure And Loading Conditions Of The Equine Proximal Phalanx During Growth	Moshage	Moshage	Competition - Masters	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 104
138	Reducing The Metabolic Cost Of Fast Walking Through Stiff Insoles	Ray	Ray	Competition - Masters	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 105
624	Wearable Technology Measures Manual Tactile Forces During Activities Of Daily Living	Riddle	Riddle	Competition - Masters	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 106
518	Reliability Of Radiographic Evidence Of Glenohumeral Subluxation And The Relationship To Shoulder Joint Motion	Topley	Topley	Competition - Masters	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 107
	The Role Of Cycle-To-Cycle Variability In The Development Of			Competition -	Friday,	4:30:00	6:00:00	
361	Shoulder Pain In Manual Wheelchair Users The Effect Of Footwear On Barbell Back Squat Mechanics In	Walford	Walford	Masters Competition -	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 108
59	Experienced Female Squatters Utilizing Inertial Sensors To Evaluate Human Walking During A	Walker	Walker	Masters Competition -	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 109
544	Long Outdoor Foot March Center Of Mass Motion During Sit-To-Stand Changes Through	Ojeda	Wathen	Masters Competition -	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 110
195	Pregnancy	Catena	Alejandre-Rios	Undergrad Competition -	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 111
448	The Effects Of Hearing Loss On Gait Stability In Older Adults	Gordon	Cornwell	Undergrad	Aug. 10	PM	PM	Fr 112
470	Effect Of Number Of Segments In A Running-Specific Prothesis Model On Hip And Knee Kinetics	Eustace	Eustace	Competition - Undergrad	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 113
641	Effects Of Fixed And Variable Damping Environments On Ankle Agility And Stability	Lee	Hanzlick	Competition - Undergrad	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 114
579	Creation Of Subject-Specific Subtalar Joint Contact Models From Weight Bearing Ct Scans	Dibbern	Hiller	Competition - Undergrad	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 115
205	The Achilles Tendon Moment Arm Exhibits Independent And Combinatory Effects Of Joint Rotation And Muscle Loading	Franz	Khanchandani	Competition - Undergrad	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 116
283	Finite Element Analysis Of The Rotator Cuff: A Systematic Review	Looft	Redepenning	Competition - Undergrad	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 117
250	Progressive Lateral Column Lengthening In A Cadaveric Flatfoot Model Increases Individual Bone Rotations In The Midfoot And Hindfoot	Szabo	Szabo	Competition - Undergrad	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 118
235	Evaluation Of Ankle Proprioception And Self-Reported Ankle			Competition -	Friday,	3:00:00 PM	4:30:00	
	Instability Using A Novel, Clinically-Oriented Procedure	Teater	Teater	Undergrad	Aug. 10 Friday,	4:30:00	PM 6:00:00	Fr 119
264	Upper Limb Joint Kinematics During Touchscreen Interaction Shoulder Muscle Activity Changes In Patients After Injection And	Asakawa	Asakawa	Upper Extremity	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 120
633	Therapy Quantifying Glenohumeral Joint Stiffness Across Different	Cooper	Cooper	Upper Extremity	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 121
297	Shoulder Postures	Lipps	Diefenbach	Upper Extremity	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 122
57	Analysis Of Upper Extremity Moments During Hammering Shoulder Muscle Activation Patterns During Multiplanar Arm	Langenderfer	Ferdous	Upper Extremity	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 123
134	Elevation	Vardaxis	Gibbs	Upper Extremity	Aug. 10	PM 3:00:00	PM 4:30:00	Fr 124
113	The Effect Of Wrist Position On Tendon Loads Following Pulley Sectioning And Operative Reconstruction	Haddara	Haddara	Upper Extremity	Friday, Aug. 10	PM	PM	Fr 125
114	The Effect Of Sequential Flexor Tendon Pulley Sectioning And Reconstruction On Joint Range Of Motion And Tendon Load	Haddara	Haddara	Upper Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 126
577	Web-Based Visualization Of 4Dct Image Datasets For Assessing Wrist Injury	Zhao	Holmes III	Upper Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 127
229	Cumulative Load Exposure To Upper Extremities In Manual Wheelchair Users In Their Free-Living Environments Force Transmission Through The Elbow Joint Associated With	Hooke	Hooke	Upper Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 128
434	Contact Pressure And Contact Area In A Cadaveric Model With Forearm Instability	O'Driscoll	Hwang	Upper Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 129
639	Compensatory Muscle Activation Increases With Rotator Cuff Tear Severity: A Simulation Study	Khandare	Khandare	Upper Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 130
227	The Effect Of Material Heterogeneity On Trabecular Stiffness In Micro Finite Element Models	Knowles	Knowles	Upper Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 131

	Accuracy Of Density-Modulus Relationships Used In Finite				Friday,	4:30:00	6:00:00	
228	Element Modeling Of The Shoulder Muscular Demands Associated With Manual Pallet Wrapping	Knowles	Knowles	Upper Extremity	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 132
306	Techniques Imaging-Based Quantification Of Shoulder Impingement During	Maciukiewicz	Maciukiewicz	Upper Extremity	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 133
411	Manual Wheelchair-Based Activities Of Daily Living Discrimination Between Hand/Wrist Occupational Tasks And	Mozingo	Mozingo	Upper Extremity	Aug. 10	PM	PM	Fr 134
688	Individual Workers Through The Use Of An Instrumented Wrist Brace	Gordon	Piper	Upper Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 135
612	Validation Of An Instrumented Wrist Brace For Tracking Wrist Kinematics In Occupational Settings	Gordon	Piper	Upper Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 136
172	Plane Of Arm Elevation Effect On Scapulohumeral Rhythm (Shr)	Vardaxis	Schossow	Upper Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 137
55	Thumb Force And Associated Activation Of Individual Thenar Muscles During Pipetting	Li	Selvaraj	Upper Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 138
232	Fatigue Of The Lower Trapezius Muscle Decreases Scapular Posterior Tilt During Arm Elevation.	Timmons	Timmons	Upper Extremity	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 139
618	Thumb Kinetics And Kinematics In Osteoarthritic And Healthy Participants	Vocelle (Cussen)	Vocelle (Cussen)	Upper Extremity	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 140
342	The Affect Of Neuromuscular Impairment On Motor Unit Activation In Children With Cerebral Palsy	Buchanan	Adams	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 141
60	Soleus T- And H-Reflex Modulation When Performing An Unstable Stance	Chalmers	Chalmers	Motor Control & Muscle	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 142
500	Fatigue Affects Balance Control Differently During Single- And Dual-Task Walking In Older Workers	Chen	Chen	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 143
330	Control Of Motor Units And Strategies Of Force Generation During Fatigue	Contessa	Contessa	Motor Control & Muscle	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 144
209	Modeling Motor Noise Regulation In A Simple Shuffleboard Machine	Cusumano	Cusumano	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 145
94	Investigation Of Optimal Noise Level For Imperceptible Vibrotactile Stimulation	Haynes	Haynes	Motor Control & Muscle	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 146
152	Unique Locomotor Adaptations Emerge From Variable Asymmetric Split-Belt Treadmill Walking	Hinkel-Lipsker	Hinkel-Lipsker	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 147
626	Motor Unit Measurement Technology For Training, Exercise And Functional Activities	Kline	Kline	Motor Control & Muscle	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 148
358	Accuracy Of Group Analyses In Representing Shoulder Muscle Coordination Patterns Of The Individual	Leonardis	Leonardis	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 149
70	Effect Of Visual Rhythmic Cueing And Visual Feedback On Motor Control In Children With Autism	Lidstone	Lidstone	Motor Control & Muscle	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 150
357	Biomechanical Variability Among Individuals Following Acl Reconstruction And Rehabilitation	Lindley	Lindley	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 151
343	Femoroacetabular Impingement Syndrome Alters The Kinematic Control Strategy During Gait	Malloy	Malloy	Motor Control & Muscle	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 152
447	Dynamic Ultrasound Analysis Of Median Nerve May Differentiate Clinically Significant Carpal Tunnel Syndrome Relationships Among Resting Muscle Tension, Short-Range	Mattioli	Mattioli	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 153
279	Stiffness, Motion Detection, And Time To Peak Torque In Human Knee Joint	Nagai	Nagai	Motor Control & Muscle	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 154
635	The Effect Of Surgical Alignment On Gait Complexity In Adult Deformity Patients - A Neuromuscular Synergy Approach	Hur	Nazifi	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 155
493	Emg-Driven Musculoskeletal Simulations Using A New Threshold Optimization Technique	O'Brien	O'Brien	Motor Control & Muscle	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 156
137	Modular Control Of Gait In Healthy Older And Young Adults	Roelker	Roelker	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 157
350	Kinematic Variability In Piano Performance	Schmidt	Schmidt	Motor Control & Muscle	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 158
660	Investigation Of Whole-Limb Motion As A Primary Motor Goal During Gait	DiBerardino	Sommers	Motor Control & Muscle	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 159
	Mechanisms Of Preparation For Task Switching In Finger			Motor Control &	Friday,	4:30:00	6:00:00	
431	Pressing Task Designing Usable Assistive Devices In A First-Year Engineering	Ambike	Tillman	Muscle	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 160
313	Design Class: Lessons Learned To Maximize The Odds Of Success Software-Based Training Can Improve Student Learning In	Bigelow	Bigelow	Teaching/Outreach	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 161
608	Undergraduate Biomechanics Class Student Perceptions Of Active Learning And Mastery In	Gonzalez	Gonzalez	Teaching/Outreach	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 162
136	Biomechanics	Wallace	Knudson	Teaching/Outreach	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 163
86	Biomechanics To Engage Elementary Stem Education	Lanier	Lanier	Teaching/Outreach	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 164
212	Open-Ended Discussion In The Biomechanics Class	Troy	Troy	Teaching/Outreach Measurements,	Aug. 10	PM	PM	Fr 165
464	Biaxial Cyclic Loading Of Skin	Afsar Kazerooni	Afsar Kazerooni	Validation, and Sensors Measurements,	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 166
681	Excursion Of Individual Wrist Tendons Using A Joint Motion Simulator And Phantom Limb	Anderson	Anderson	Validation, and Sensors Measurements,	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 167
426	Quantifying The Shoulder Workspace Of Wheelchair Users And Able-Bodied Controls Using Imus	Cain	Cain	Validation, and Sensors	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 168
463	Accuracy Of Video Analysis For Forward Lean Releases In A Clinical Setting	Smeesters	Carbonneau	Measurements, Validation, and Sensors	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 169
535	Instrumentation Of A Rod Rotation Wrench For Use In Scoliosis Surgery	Cummings	Cummings	Measurements, Validation, and Sensors	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 170
		0	5		. .			-

	Revisiting The Minimum Number Of Steps To Accurately			Measurements, Validation, and	Friday,	3:00:00	4:30:00	
559	Measure Step Kinematics During Treadmill Walking	Desmet	Desmet	Sensors	Aug. 10	PM	PM	Fr 171
	Relationship Between Regional Lumbar Postures And Trunk			Measurements, Validation, and	Friday,	4:30:00	6:00:00	
310	Muscle Fatigability During Standing In Chronic Low Back Pain	Embaby	Embaby	Sensors	Aug. 10	PM	PM	Fr 172
				Measurements, Validation, and	Friday,	3:00:00	4:30:00	
497	Characterization Of A Miniaturized Horizontal Sled	Estep	Estep	Sensors	Aug. 10	PM	PM	Fr 173
	Determining The Odds Of Exceeding Niosh Recommended L5/S1 Spinal Compression Force Using A Bayesian Network			Measurements, Validation, and	Friday,	4:30:00	6:00:00	
9	Implementation Of A Biomechanical Lifting Model	Hughes	Hughes	Sensors	Aug. 10	PM	PM	Fr 174
	Normative Cervical Spine Kinematics Of A Circumduction Task In			Measurements, Validation, and	Friday,	3:00:00	4:30:00	
354	A Healthy Cohort	Ellingson	Kage	Sensors	Aug. 10	PM	PM	Fr 175
	Lumbar Spine Biplane Fluoroscopy Validation Via An Automated			Measurements, Validation, and	Friday,	4:30:00	6:00:00	
584	Shape-Matching Algorithm	Ellingson	Kage	Sensors Measurements.	Aug. 10	PM	PM	Fr 176
	Passive And Active Characteristics Of The Smooth Muscle Of The			Validation, and	Friday,	3:00:00	4:30:00	
263	Stomach And Its Finite Element Simulation	Kim	Kim	Sensors Measurements,	Aug. 10	PM	PM	Fr 177
	Analysis Of Stress Wave Propagation By An Anatomical Finite	Web	Ministra and	Validation, and	Friday,	4:30:00	6:00:00	5- 470
41	Element Model Of The Skull With The Suture Soft Tissue Stiffness Over The Hip Increases With Age And Its	Kiriyama	Kiriyama	Sensors Measurements,	Aug. 10	PM	PM	Fr 178
255	Implication In Hip Fracture In Older Adults: Data From One Hundred Fifty Individuals	Choi	Lim	Validation, and Sensors	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 179
255		chor	Lini	Measurements,				11 175
651	Anatomical Model Evaluation Using In Vitro Squat Simulation	Manal	Manal	Validation, and Sensors	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 180
				Measurements,	-			
115	Effects Of Age And Gender On Cervical Lateral Bending Injury Tolerance Corridors	Shimada	Maroney	Validation, and Sensors	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 181
				Measurements, Validation, and	Friday,	4:30:00	6:00:00	
14	Custom Software For Calculation Of Shear Wave Velocity	McPherson	McPherson	Sensors	Aug. 10	4.50.00 PM	PM	Fr 182
	Validation Of Imus For Trunk Kinematics During Treadmill			Measurements, Validation, and	Friday,	3:00:00	4:30:00	
105	Disturbances	Kaufman	Miller	Sensors	Aug. 10	PM	PM	Fr 183
	Intrasession Reliability, Precision, And Between-/Within- Subjects Variability Of Hamstrings Shear Wave Elastography At			Measurements, Validation, and	Friday,	4:30:00	6:00:00	
276	Different Positions	Nagai	Nagai	Sensors	Aug. 10	PM	PM	Fr 184
	Load Carriage Effect On The Ability To Control Dynamic			Measurements, Validation, and	Friday,	3:00:00	4:30:00	
300	Movement	Perlin	Perlin	Sensors	Aug. 10	PM	PM	Fr 185
	Classifying Type Of Natural Gait Using Ann And Ankle-Mounted			Measurements, Validation, and	Friday,	4:30:00	6:00:00	
437	Accelerometer Data	Mahoney	Rhudy	Sensors Measurements,	Aug. 10	PM	PM	Fr 186
	Validation Of A Neck Model With Mucle Fatigue Using The			Validation, and	Friday,	3:00:00	4:30:00	
372	Sorensen Test	Zhou	Roos	Sensors Measurements,	Aug. 10	PM	PM	Fr 187
75	Assessing Fatigue And Stretching Affect On The Achilles Tendon	Colorea	C-1	Validation, and	Friday,	4:30:00	6:00:00	5-400
75	Using Surface Wave Elastography	Salman	Salman	Sensors Measurements,	Aug. 10	PM	PM	Fr 188
337	Added Mass Effects On Tendon Vibration Under Axial Load	Schmitz	Schmitz	Validation, and Sensors	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 189
				Measurements,				
349	Reliability, Validity, And Torque-Angle Curves Of Hip Strength Measurement By Hand-Held Dynamometry	Squier	Squier	Validation, and Sensors	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 190
	Comparing Inertial Measurement Unit And Optical Infrared Passive Marker-Based Motion Capture Systems: Studying The			Measurements, Validation, and	Friday,	3:00:00	4:30:00	
58	Effects Of Subject Preparation Variability	Goehler	Valbuena	Sensors	Aug. 10	PM	PM	Fr 191
	Changes In Muscle Shear Wave Propagation With Active And			Measurements, Validation, and	Friday,	4:30:00	6:00:00	
221	Passive Force Generation	Wang	Wang	Sensors Measurements,	Aug. 10	PM	PM	Fr 192
	Validity Of The Optogait Portable Photoelectric Cell System For			Validation, and	Friday,	3:00:00	4:30:00	
510	Quantification Of Spatial-Temporal Parameters Of Running Gait	Weart	Weart	Sensors Measurements,	Aug. 10	PM	PM	Fr 193
	Does A Rotating Bar Affect The Body Kinematics During A Penny			Validation, and	Friday,	4:30:00	6:00:00	
582	Drop Maneuver?	Yang	Yang	Sensors Measurements,	Aug. 10	PM	PM	Fr 194
396	Investigation Of Fatigue-Associated Measures: An Exploratory Framework Using Supervised Classification Approach	Zheng	Zheng	Validation, and Sensors	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 195
550		LICIE	LICIS	Measurements,	-			11 133
623	Does Neck Muscle Fatigue Affect Cervical Intervertebral Kinematics?	Chowdhury	Zhou	Validation, and Sensors	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 196
-	Patterns Of Erector Spinae Activation And Trunk-Pelvis	· · ,						
365	Kinematics In Persons With Lower Limb Amputation: Influences Of Low Back Pain	Butowicz	Acasio	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 197
	Gait Restoration After A Spinal Cord Injury: A Simulation And				Friday,	4:30:00	6:00:00	
314	Experimental Study Of The Double Support Phase	Alibeji	Alibeji	Balance/Posture	Aug. 10	PM	PM	Fr 198
352	A Reactive Balance Rating Method To Assess Performance After Treadmill-Induced Trip-Like Perturbations	Allin	Allin	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 199
552	Postural Stability In Unilateral Transtibial Amputees Using Two	,	7.000	balance, rostare	Friday,	4:30:00	6:00:00	11 155
682	Suspension Systyems: Smartpuck Vs Lock And Pin	Alunan	Alunan	Balance/Posture	Aug. 10	4.30.00 PM	PM	Fr 200
					Friday,	3:00:00	4:30:00	
6	Effects Of Sound On Static Postural Stability	Soangra	Anderson	Balance/Posture	Aug. 10	PM	PM	Fr 201
218	Preliminary Investigation On The Effects Of Xbox 360 Kinect Training On Gait And Likelihood Of Initiating A Loss Of Balance	Arena	Arena	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 202
	Postural Stability, Vertical Stiffness, And Lower-Extremity Joint				Friday,	3:00:00	4:30:00	
459	Motion During Multi-Direction Single-Legged Jump-Landings	Bond	Bond	Balance/Posture	Aug. 10	PM	PM	Fr 203
516	Perturbation-Evoked Lateral Steps In Older Adults: Why Take Two Steps When One Will Do?	Borrelli	Borrelli	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 204
515	Investigation Of Exposure Time On Dynamic Stability Measures	_0		bulance/r batare	Friday,	3:00:00	4:30:00	.1 204
353	During Common Assessment Tasks	Buchholz	Buchholz	Balance/Posture	Aug. 10	PM	PM	Fr 205
220	Influences Of Low Back Pain On The Energy Contributions Of The	Dutousier	Dutouist	Dalance (Dastruct	Friday,	4:30:00	6:00:00	E- 200
320	Hip And Spine During Gait Among Persons With Lower Limb Loss	Butowicz	Butowicz	Balance/Posture	Aug. 10	PM	PM	Fr 206

617	Unwinding The Control Of Walking Turns	Curtze	Curtze	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 207
8	Reaction Time Of Young Adult And Middle-Aged Men And Women During A Forward Fall	DeGoede	Donlin	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 208
547	Spinal Decompression Surgery On Gait Efficiency And Balance Of	Russell	Deeley	Dolongo (Dooturo	Friday,	3:00:00	4:30:00 PM	Fr 209
547	Cervical Myelopathy Patients	Russen	Dooley	Balance/Posture	Aug. 10 Friday,	PM 4:30:00	6:00:00	FI 209
143	Age-Related Kinetic Imbalances During Gait Postural Control Measures Between Individuals Who Fall And	Hausselle	Ekanayake	Balance/Posture	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 210
520	Recover After An Unexpected Slip	Garner	Garner	Balance/Posture	Aug. 10	PM	PM	Fr 211
615	The Impact Of Obesity On Gait Stability In Older Adults	Gonzalez	Gonzalez	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 212
351	Locomotor Stability Effort Changes Maneuver Execution In Incomplete Spinal Cord Injury	Gordon	Gordon	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 213
244	The Relationship Between Star Excursion Balance Test Joint Angles Limb Asymmetry And Normalized Reach Distance In 12	11-1-		Delener (Destroy	Friday,	4:30:00	6:00:00	5-244
341	Weeks Post Hip Arthroscopy Patients Repeated Motor Control Testing Decreases Co-Contraction	Hale	Hale	Balance/Posture	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 214
374	Index In Healthy Young Adults	Hill	Hill	Balance/Posture	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 215
2	Texting While Walking Influences Step Width	Soangra	Hofstee	Balance/Posture	Aug. 10	PM	PM	Fr 216
327	Smartphone Technology Can Measure Postural Stability And Distinguish Fall Risk In Older Adults	Hsieh	Hsieh	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 217
645	The Effect Of Surgical Alignment On Standing Balance In Adult Deformity Patients ،Äi Invariant Density Approach	Hur	Hur	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 218
198	Moving Beyond Trips And Slips With Proximal Determinants Of Falls In Older Adults: The Mobilize Boston Study	Kang	Kang	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 219
	Ethnic Differences In Lower Extremity Static And Dynamic Postural Measures As A Potential Risk Factor For Anterior				Friday,	4:30:00	6:00:00	
654	Cruciate Ligament (Acl) Injury Balancing Human Driver Posture In Vehicle Under Lateral	Lee	Kim	Balance/Posture	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 220
50	Motion	Kimpara	Kimpara	Balance/Posture	Aug. 10	PM	PM	Fr 221
663	Joint Angle Coordination Strategies During Rotations In Dance	Lott	Lott	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 222
208	A Powered 3D Compass Walker: Energetics And Stability Of Period-1 Gaits	Maiti	Maiti	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 223
254	Equilibrium During Single-Leg Standing With Heel Raised Up In Individuals With Ankle Instability	Morikawa	Morikawa	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 224
					Friday,	3:00:00	4:30:00	
622	The Effect Of Mental Fatigue On Postural Stability Changes In Prosthetic Alignment Affect Ground Reaction Force	Morris	Morris	Balance/Posture	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 225
456	Symmetry And Pain During Sit-To-Stand Protocol For Realistic Virtual Reality Environment That Perturbs	Nolasco	Nolasco	Balance/Posture	Aug. 10	PM 3:00:00	PM 4:30:00	Fr 226
526	Balance	O'Connell	O'Connell	Balance/Posture	Friday, Aug. 10	PM	PM	Fr 227
659	Direction And Modality Sensitivity Of Walking Balance To Visual Perturbations	O'Connor	O'Connor	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 228
	Decreased Divergence Of The Trunk Movement Trajectories During Treadmill Walking Is Not Related To Trunk Flexion Of Young Subjects Following Treadmill-Delivered Disturbances				Friday,	3:00:00	4:30:00	
150	Mimicing A Trip	Oludare	Oludare	Balance/Posture	Aug. 10	PM	PM	Fr 229
665	Test-Retest Reliability Of The Sensory Organization Test And Central Sensorimotor Integration (Csmi) Test	Parrington	Parrington	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 230
140	Effect Of Speed Control On Global Stability Of A Powered Compass Walker	Patil	Patil	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 231
215	Effects Of Weighted Belt On Limit Of Stability During Standing	Choi	Phan	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 232
	Center Of Pressure Response To Visual Perturbations In Virtual				Friday,	3:00:00	4:30:00	
135	Reality Longitudinal Association Of Standing Balance And Neurodegenerative Biomarkers In A Concussed Athlete: A Case	Phillips	Phillips	Balance/Posture	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 233
371	Study	Pryhoda	Pryhoda	Balance/Posture	Aug. 10	PM	PM	Fr 234
203	Visuomotor Error Augmentation Affects Mediolateral Head And Trunk Stabilization During Walking	Franz	Qiao	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 235
12	Effectiveness Of Sit To Stand Workstations: A Systematic Review	Radwan	Radwan	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 236
285	Dynamics Of Postural Control In Elite Sport Rifle Shooters	Raffalt	Raffalt	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 237
	Dynamics Of Postural Control In Individuals With Lateral Ankle				Friday,	4:30:00	6:00:00	
482	Sprain Reliability Of Sensitive Parameter Estimates In Head Position	Raffalt	Raffalt	Balance/Posture	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 238
462	Tracking Medicine Ball Throw To Evaluate Postural Stability In Persons	Ramadan	Ramadan	Balance/Posture	Aug. 10 Friday,	PM 4:30:00	PM 6:00:00	Fr 239
157	With Amputation	ROWE	ROWE	Balance/Posture	Aug. 10	PM	PM	Fr 240
513	Rambling-Trembling Decomposition Is Not Sensitive To Intentional Poor Balance	Sandri Heidner	Sandri Heidner	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 241
303	A Simple Controller For Running Derived From Step-To-Step Variability	Seethapathi	Seethapathi	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 242
428	Effect Of Prophylactic Ankle Bracing On Dynamic Balance	Stephenson	Stephenson	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 243
	Assessment Of Postural Control In Multiple Sclerosis:				Friday,	4:30:00	6:00:00	
527	Identification Of Core Outcome Variables Reliability Of A Novel, Clinically-Oriented Approach To Quantify	Sun	Sun	Balance/Posture	Aug. 10 Friday,	PM 3:00:00	PM 4:30:00	Fr 244
233	Ankle Proprioception	Teater	Teater	Balance/Posture	Aug. 10	PM	PM	Fr 245

175	Dynamic Stability During Walking In Children With And Without Cerebral Palsy: A Pilot Study Posture Assessment Of A Chiropractor Performing Side Posture	Crenshaw	Tracy	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 246
124	Adjustments: A Pilot Study Using An Inertial Measurement Unit System	Russell	Weiner	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 247
515	Lead Leg Recovery Responses Between Individuals Who Fall And Recover After An Unexpected Slip	Wilson	Wilson	Balance/Posture	Friday, Aug. 10	4:30:00 PM	6:00:00 PM	Fr 248
668	Relationship Between Muscle Activation And Postural Stability In Persons With Multiple Sclerosis	Zanini	Zanini	Balance/Posture	Friday, Aug. 10	3:00:00 PM	4:30:00 PM	Fr 249