



Science & Cycling 2021 Conference Program

version 1.5 13 September 2021

Wednesday 22 September					
08.00	18.00	Salon			
		Registration Open			
		Lemaire			
09.00	18.00	Exhibition			
09.00	09.05	Infirmierie			
09.05	09.15	Welcome			
09.15	09.40	Stephen Seiler	Opening		
09.40	10.00	Forum Training Load: Stephen Seiler, Jeroen Swart, Teun van Erp			
10.00	10.30	Lemaire			
10.30	10.50	Coffee break			
10.50	11.20	Filipe Salbany	What can elite cycling learn from elite rowing? (working title)		
11.20	11.50	Dan Lorang	What Ironman World Champions and TOP5 Grand Tours GC contenders have in common? Physical and mental aspects of world class athletes in		
11.50	12.20	Mathieu Heijboer	Preparing Team Jumbo-Visma on the Tour de France (A chat between Mathieu Heijboer and James Witts)		
12.20	13.20	Lemaire			
12.20	13.20	Lunch			
13.20	13.50	Ruby Otter	Influence of stress and recovery on endurance performance		
13.50	14.20	Florentina Hettinga	The secrets of competition: pacing, decision-making and performance when racing against others		
14.20	14.50	Mike Patton	Applied sport science as R&D: lessons from elite team pursuit (online video)		
14.50	15.20	Kurt Bergin-Taylor	Lessons from Olympic track cycling - Innovation opportunities for other cycling disciplines		
15.20	15.45	Neal Henderson	A Logical Approach to Chrono Preparation and Competition		
15.45	16.00	Lemaire			
16.00	16.30	Coffee break			
16.00	16.30	Chris Morton	Field measurements of aerodynamic performance in cycling: a systematic analysis of sensor accuracy		
16.30	16.50	Cedric Lemaire	Experimental evaluation of the repeatability of wind tunnel measurement of cyclist's drag	Aitor Altuna	Estimating maximal metabolic steady state using critical power
16.50	17.10	Thomas Peeters	Indoor validation of vibrotactile motion steering: towards a new world hour record?	Andrea Giorgi	The influence of prior accumulated fatigue on power output in professional cyclists
17.10	17.30	Matthieu Voiry	Experimental validation of a computer-vision based method to assess the aerodynamic drag of cyclists	Marius Pujol	A single field test evaluation for the assessment of the Record Power Profile in cycling
17.30	17.50			James Spragg	Can Critical Power be Estimated from Training and Racing Data using Mean Maximal Power Outputs?
17.50	18.10			Yann Bertron	Force-velocity components of the critical power in non-cyclists, recreational trained and elite cyclists
19.00	22.00	Faculty Club Infirmierie/Garden			
		Conference Evening			

Thursday 23 September					
08.00	18.00	Salon			
		Registration Open			
		Corridor/Lemaire			
09.00	18.00	Exhibition			
09.00	09.30	Peter Hespel	Exogenous ketosis in cycling performance: state-of-the art and future perspectives		
09.30	09.50	Jens Voet	The influence of relative age effect on talent identification in professional cycling	Jelle de Bock	Lap sector segmentation using discrete fourier transformation and geospatial alignment for inter- and intra-athlete workout file comparison
09.50	10.10	Mireille Mostaert	Motor coordination may be the key to success in youth cycling	George Barnaby	Mapping whole-event drive losses: studying the impact of race profile and rider input on bicycle transmission efficiency
10.10	10.30	Matthias Hovorka	Monitoring pulmonary VO2 on-kinetics during a 3-year period in youth elite-cyclists	Masahiro Fukuda	Analysis of pedaling motion focusing on the crank angle corresponding to the maximum pedal angle
10.30	10.50	Peter Leo	Workload characteristics and race performance of U23 and elite cyclists during an UCI 2. Pro multistage race (Tour of the Alps)	Felix Imbery	A new approach to biomechanical analysis in cycling to introduce science to future data acquisition
10.50	11.10	Corridor/Lemaire			
11.10	11.40	Coffee break			
11.10	11.40	Christian Bosse	Road to Tokyo 2020: The physical preparation of the Dutch Track Cycling Sprint Team	Niels Boon	Bikefitting: Current Stae-of-art and future trends
11.40	12.10	Menachem Brodie	Strength Training for Cycling Success: 3 mistakes that are sapping your results	Philipp Neumeister	Influence of non-circular chainrings on kinematics during stationary and outdoor cycling
12.10	12.30	Eline Lievens	Muscle fiber typologies in elite cycling disciplines	Philipp Neumeister	Influence of non-circular chainrings on muscular activity during stationary and outdoor cycling
12.30	12.50	Svenja Kaczorowski	EMG Activities of the Shoulder Muscles during a simulated Downhill compared to dynamic Shoulder Exercises – A Cross-Sectional Study	Victor Scholler	Biomechanical determinant of sitting comfort in cycling
12.50	13.50	Corrdior/Lemaire			
13.50	14.00	Lunch			
		Company demonstration in exhibition area / poster visits			
14.00	14.30	Infirmierie			
14.30	14.50	Robert Lamberts	Learning from field data of professional cyclists; from winning bunch sprints to the effect of accumulating fatigue on performance		
14.50	15.10	Teun van Erp	Load and performance indicators in female professional cycling		
15.10	15.30	Steven Verstockt	Automatic Mapping of Finish Line Videos for the Objective Analysis of Sprint Behavior	Sebastien Duc	Adding vibrations during high intensity cycling increases acute physiological responses
15.30	15.50	Jens Voet	Differences in execution and perception of training sessions as experienced by (semi-)professional cyclists and their coach	Josef Viellehner	The effect of road bike damping on neuromuscular activation and power output
15.50	16.10	Leonid Kholkin	A Machine Learning approach for In-Race Cycling Performance Prediction	Kim Buchholtz	The effect of physical and cognitive fatigue on mountain bike balance and agility performance
16.10	16.40	Corrdior/Lemaire			
16.40	17.10	Coffee Break			
16.40	17.10	Bent Ronnestad	HIIT		
17.10	17.30	Samuele Marcora	The limits of endurance performance: mind over muscle?		
17.30	17.50	Martin Dobiasch	A gap in the education of future sport Scientists?		