2023 APPLIED PHYSIOLOGY CONFERENCE

OFFICIAL

Thursday 19th October 2023 Online | Microsoft Teams

Objectives

- Connect to share and challenge current HP system Physiology practice, projects, and ways of working
- Share current and potential future system activities and projects
- Consider future HP system preparation and how Physiology will support and impact sustained podium success

Invitees

- NSO and NIN engaged physiologists
- Postgraduate students embedded within NSO or NIN programs
- Invited guests

Themes

- Applied Physiology Research & Case Studies | Applied work, technology & research projects (staff and students) from the Network.
- Athlete Profiling Evolution | Sport specific updates
- System Updates | Updates on National High Performance Sport Research projects.

ESSA CPD Points

• Learning Hours: Thursday 19th October = 5.5



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Program

Thursday 19th October 2023 (all times in AEDT)

Time	Session	Speaker		
09.00-09.15	Welcome	Rodney Siegel		
	Acknowledgement of Country Housekeeping Themes Format	National Physiology Network Lead AIS		
09.15-10.45	Athlete Profiling Evolution			
	1. Athletics	Avish Sharma Performance Scientist – Physiology VIS		
	2. Cycling	Jamie Stanley Lead Physiologist Australian Cycling Team		
	3. Swimming	Lachlan Mitchell Performance Scientist – Physiology VIS		
	4. Triathlon	Steven Hughes Performance Scientist NSWIS		
10.45-11.15	Break			
11.15-12.45	Athlete Profiling Evolution / Applied Research			
	1. AIS Athlete Profiling Project Update	Katie Slattery Senior Lecturer University of Technology Sydney		
	2. Paddle Athlete Profiling Evolution	Mark Osborne Performance Support & Innovation Manager Paddle Australia		
	3. Rowing Athlete Profiling Evolution	Martin Binnie Performance Scientist WAIS		
	 Preliminary findings of the physiological validation of a 3 min al out test in swimming 			
	 Application of the Omni-Domain Power-Duration model in Swimming 	Karli Musarra Assistant Physiologist & Honours Student NSWIS & University of Technology Sydney		
	Break			



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14.00-15.30	Applied Research / Case Studies		
	1.	Determining the energetic demands of supramaximal efforts in elite swimming athletes	
	2.	Integrating the evolution of endurance testing and monitoring with athlete categorisation and coach education	Jamie Stanley Lead Physiologist – Australian Cycling Team
	3.	Extreme Intensity Domain Training Prescription for Middle-Distance Performance	Avish Sharma Performance Scientist – Physiology VIS
	4.	Acute individual responses to high intensity interval training	Alexandra Bauer PhD Candidate VIS & Victoria University
	5.	Assessing the Use of Heart-Rate Monitoring for Competitive Swimmers	Stephen Crowcroft Senior Physiologist (National Technical Lead – Swimming) QAS
15.30-16.00	Bre	eak	
16.00-17.00	Ар	plied Research / Case Studies	
	1.	A sprint kayak case study: From pre- conception to pregnancy to postpartum - navigating through the unknown and the learnings	Nicola Bullock Performance Pathway Scientist AIS
	2.	The Swimmer's Phenomics Project	Andrew Govus Senior Lecturer La Trobe University
			Laine Heidenreich PhD Candidate VIS & La Trobe University

