

Wednesday, 18 Sept 2019: The Basis

- 9:30 – 10:00 Registration
- 10:00 – 10:10 Welcome and Introduction
- 10:10 – 11:20 Physiological Basis of Exercise Performance (Part 1+2)
Susan Ward
- 11:20 – 11:35 Coffee break, Refreshments
- 11:35 – 12:30 Pathophysiology of Exercise Limitation
Piergiuseppe Agostoni
- 12:30 – 13:30 Interactive tutorial sessions in small groups (Beginners, Intermediate, Advanced)
- 13:30 – 14:30 Lunch break
- 14:30 – 15:00 Conducting the clinical study: equipment, calibration, technical troubleshooting
Arno Schmidt-Trucksäss
- 15:00 – 15:30 Protocols: Ramp Tests, Constant Work Rate Tests
Marshall Riley
- 15:30 – 16:00 Normal values and their pitfalls
Alfred Hager
- 16:00 – 16:30 Formatting exercise test results
Daniel Dumitrescu
- 16:30 – 16:55 Coffee break, Refreshments
- 16:55 – 17:00 Group Photograph
- 17:00 – 17:30 The history of CPET - how have we got here?
Paul Older
- 17:30 – 18:30 Key note lecture

Thursday, 19 Sept 2019

Focus 1: The Heart, the Lung and the Lung Vessels

- 8:30 – 9:00 Exercise Testing in Heart Failure
Piergiuseppe Agostoni
- 9:00 – 9:30 Exercise Testing in Congenital Heart Disease
Alfred Hager
- 9:30 – 10:00 Exercise Testing in Pulmonary Disease
Joachim Meyer
- 10:00 – 10:30 Cardiac Output Measurements during exercise
Piergiuseppe Agostoni
- 10:30 – 11:00 Coffee break, Refreshments
- 11:00 – 11:30 Pulmonary Hemodynamics during exercise
Gabor Kovacs

- 11:30 – 12:00 Exercise Testing in pulmonary vascular disease
Daniel Dumitrescu
- 12:00 – 12:30 Exercise Echocardiography
Philipp Douschan
- 12:30 – 13:30 Workshop 1: Ramp exercise test
- 13:30 – 14:30 Lunch break

Focus 2: Surgery and Rehabilitation

- 14:30 – 15:00 Exercise Testing for perioperative risk assessment
Denny Levett
- 15:00 – 15:30 Pre- and rehabilitation concepts in malignant diseases
Sandy Jack
- 15:30 – 16:00 Pulmonary rehabilitation and CPET
Ralf Zwick
- 16:00 – 16:30 Coffee break, Refreshments
- 16:30 – 17:00 Cardiac rehabilitation and CPET
Piergiuseppe Agostoni
- 17:00 – 18:00 Workshop 2: Constant workload test

Friday, 20 Sept 2019: Special Issues and Repetition

- 8:30 – 9:00 Gas Exchange Patterns in Metabolic Myopathies
Marshall Riley
- 9:00 – 9:30 Exercise Testing in Children
Tim Takken
- 9:30 – 10:00 Cardiopulmonary Adaptation to high altitude
Mike Grocott
- 10:00 – 10:15 Coffee break, Refreshments
- 10:15 – 10:45 Usefulness of CPET in Athletes
Karin Vonbank
- 10:45 – 11:15 Critical appraisal for the anaerobic threshold
Horst Olschewski
- 11:15 – 12:15 Interactive tutorial sessions in small groups
(Cardiac, Pulmonary, Pediatric/CHD, Preoperative)
- 12:15 – 12:45 General Assembly Meeting CPX International
- 12:30 – 13:30 Lunch break
- 13:30 – 14:45 Abstract Competition / Young Investigator Award
Susan Ward and Faculty
- 14:45 – 15:00 Coffee break, Refreshments
- 15:00 – 16:15 Use of CPET in clinical practice: Clinical Cases and Case based self-examination
Daniel Dumitrescu and Faculty
- 16:15 – 17:00 General Discussion, Certificate Award, Concluding Remarks