

23rd Chris Engelbrecht Summer School on “Quantum Biology”
Salt Rock Hotel, KwaZulu-Natal, South Africa, 18-28 January 2012

Timetable

	Thu, 19 Jan	Fri, 20 Jan	Sat, 21 Jan	Mon, 23 Jan	Tue, 24 Jan	Wed, 25 Jan	Thu, 26 Jan	Fri, 27 Jan
9 ⁰⁰ – 10 ⁰⁰	A. Buchleitner (1)	T. Ritz (1)	T. Ritz (4)	I. Burghardt (4)	A. Ekert (1)	A. Ekert (3)	R. van Grondelle (2)	R. van Grondelle (4)
10 ⁰⁰ – 11 ⁰⁰	A. Buchleitner (2)	T. Ritz (2)	T. Ritz (5)	I. Burghardt (5)	A. Ekert (2)	A. Ekert (4)	R. van Grondelle (3)	R. van Grondelle (5)
11 ⁰⁰ – 11 ³⁰	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee
11 ³⁰ – 12 ³⁰	R. Sparrow (1)	R. Sparrow (2)	A. Buchleitner (3)	K. B. Whaley (1)	K. B. Whaley (2)	K. B. Whaley (3)	K. B. Whaley (4)	K. B. Whaley (5)
12 ³⁰ – 14 ³⁰	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
14 ³⁰ – 15 ³⁰	I. Burghardt (1)	I. Burghardt (3)		A. Buchleitner (4)	A. Buchleitner (5)	R. Sparrow (4)	A. Marais	R. Sparrow (5)
15 ³⁰ – 16 ⁰⁰	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee	Tea/Coffee
16 ⁰⁰ – 17 ⁰⁰	I. Burghardt (2)	T. Ritz (3)		R. Sparrow (3)	I. Sinayskiy	R. van Grondelle (1)	V. Shatokhin	T. Krüger

Topics and Speakers

- Prof. Andreas Buchleitner - Transport in complex quantum systems
 Prof. Irene Burghardt - Quantum dynamics in complex environments - towards biological and nanostructured systems
 Prof. Artur Ekert - Introduction to coherent quantum transport and decoherence
 Prof. Rienk van Grondelle - The design of photosynthesis
 Dr. Tjaart Krüger - Quantum processes in photosynthesis as revealed by single-molecule spectroscopy
 Ms. Adriana Marais - A simple model of decoherence assisted transport
 Prof. Thorsten Ritz - Magnetic orientation in animals
 Dr. Vyacheslav Shatokhin - Diagrammatic pump-probe approach to coherent backscattering of laser light by matter
 Dr. Ilya Sinayskiy - Open Quantum Walks
 Dr. Raymond Sparrow - Bio-engineering
 Prof. K. Birgitta Whaley - Application of Quantum information and Quantum Control to Energy transfer in Biology

Additional notes

- Please note that, 18 January is an arrival day and 28 January is a departure day.
- Welcome Braai on the evening of the 18th of January 2012.