

19th Christ Engelbrecht Summer School in Theoretical Physics

Soft Condensed Matter and Physics of Biological Systems

Venue (conference, lunch and dinner):
Wallenberg Research Centre of STIAS,
Marais Street, Stellenbosch

Mon, 21 Jan		Tue, 22 Jan		Wed, 23 Jan		Thu, 24 Jan		Fri, 25 Jan	
				08:00-09:00	<i>Registration</i>				
				09:00-09:30	Opening	09:00-10:00	Schmidt	09:00-10:00	Joanny
				09:30-10:30	Schiessel	10:00-11:00	Frenkel	10:00-11:00	MacKintosh
				10:30-11:30	Joanny	11:00-11:30	<i>Coffee</i>	11:00-11:30	<i>Coffee</i>
				11:30-12:00	<i>Coffee</i>	11:30-12:30	Hofmeyr	11:30-12:30	Schmidt
				12:00-13:00	Schmidt				
				13:00	<i>Lunch</i>	13:00	<i>Lunch</i>	13:00	<i>Lunch</i>
				16:00-16:30	<i>Tea</i>	16:00-16:30	<i>Tea</i>	16:00-16:30	<i>Tea</i>
				16:30-17:30	Frenkel	16:30-17:30	Schiessel	16:30-17:30	Schmidt
		17:30 onwards	<i>Welcoming function & Registration</i>	17:30-18:30	Joanny	17:30-18:30	MacKintosh	17:30-18:30	MacKintosh
				18:30	<i>Dinner</i>	18:30	<i>Dinner</i>	18:30	<i>Dinner</i>

Weekend

Mon, 28 Jan		Tue, 29 Jan		Wed, 30 Jan		Thu, 31 Jan		Fri, 1 Feb	
09:00-10:00	Frenkel	09:00-10:00	Safran	09:00-10:00	Safran	09:00-10:00	Frenkel	09:00-10:00	
10:00-11:00	MacKintosh	10:00-11:00	MacKintosh	10:00-11:00	Schmidt	10:00-11:00	Joanny	10:00-11:00	Frenkel
11:00-11:30	<i>Coffee</i>	11:00-11:30	<i>Coffee</i>	11:00-11:30	<i>Coffee</i>	11:00-11:30	<i>Coffee</i>	11:00-11:30	<i>Coffee</i>
11:30-12:30	MacKintosh	11:30-12:30	Safran	11:30-12:30	Safran	11:30-12:30	Schiessel	11:30-12:30	Schiessel
13:00	<i>Lunch</i>	13:00	<i>Lunch</i>	13:00	<i>Lunch</i>	13:00	<i>Lunch</i>	12:30-13:00	Closing
								13:00	<i>Lunch</i>
16:00-16:30	<i>Tea</i>	16:00-16:30	<i>Tea</i>	16:00-16:30	<i>Tea</i>	16:00-16:30	<i>Tea</i>		
16:30-17:30	Schiessel	16:30-17:30	Schmidt	16:30-17:30	Frenkel	16:30-17:30	Joanny		
17:30-18:30	Joanny	17:30-18:30	Safran	17:30-18:30	Safran	17:30-18:30	Schiessel		
18:30	<i>Dinner</i>	18:30	<i>Dinner</i>	18:30	<i>Dinner</i>	18:30	<i>Dinner</i>		

Speaker

Daan Frenkel
 Jannie Hofmeyr
 Jean-Francois Joanny
 Fred MacKintosh
 Sam Safran
 Helmut Schiessel
 Christoph Schmidt

Topic

Introduction to soft condensed matter (concentrating on colloids) and simulation techniques
 "Living stuff: soft condensed matter that fabricates itself"
 Cytoskeleton: molecular motors, actin filaments, active gels
 Introduction to polymers, semi-flexible polymers
 self assembly of amphiphiles and membrane physics; cell adhesion, mechanics
 DNA: introductory concepts, applying forces, chromatin
 Experimental techniques and experiments