

Morning session					Micromanipulation techniques: Optical tweezers Magnetic tweezers, AFM micromanipulation				
8.30 am to 9.30 am		<u>QUAKE Steven</u>		<i>Imaging information in DNA – from base pairs to genomic dynamics</i>					
9.30 am to 10.30 am		<u>CROQUETTE Vincent</u>		<i>Magnetic tweezers and DNA supercoiling</i>					
					coffe break				
11.00 am to 12.00 am		<u>HANSMA Paul</u>		<i>Single – Molecule science with scanning probes</i>					
12.00 am to 1.00 pm		<u>LINDSAY Stuart</u>		<i>Dynamic force microscope for imaging and manipulating single molecules at the liquid – solid interface</i>					
					1.00 pm to 2.00 pm lunch				
2.30 pm to 5.30 pm				Visit of old Tours we shall cross the Loire river and have a guided tour of the old city.					
					Afternoon session: Single molecule fluorescence				
6.00 pm to 6.30 pm				<u>KEILMANN Fritz</u>					
6.30 pm to 7.00 pm				<u>SEIDEL C. A. M.,</u>					
					<i>Vibrational – infrared Near – Field Microscopy</i>				
					<i>Multi – dimensional State – selective Fluorescence Spectroscopy of Single DNA – Molecules in Solution</i>				
7.15 pm to 7.30 pm				Walk from la Croix Montoire to City Hall					
7.30 pm to 9.00 pm				Cocktail at the City Hall of Tours					
					Morning session: Single molecule fluorescence/Ionic channels				
8.30 am to 9.30 am				<u>WEISS Shimon</u>					
9.30 am to 10.30 am				<u>ORRIT Michel</u>					
					coffe break				
11.00 am to 12.00 am				<u>ISACOFF Ehud</u>					
12.00 am to 1.00 pm				<u>SIGWORTH Fred</u>					
					1.00 pm to 2.00 pm lunch				
2.00 pm to 5.00 pm				Posters, demos and discussions					
					Afternoon session: Ionic channels				
5.00 pm to 6.00 pm				<u>SELVIN Paul</u>					
6.00 pm to 7.00 pm				<u>SIEGELBAUM Steven</u>					
7.00 pm to 7.30 pm				<u>PRALLE, Arnd</u>					

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Tuesday 8th

Friday 9th

Morning session: Single molecule at work: ligand / receptor interaction, enzymatic activity		
8.30 am to 9.30 am	<u>GAUB Herman</u>	<i>Probing chemical bonds by Single – Molecule force spectroscopy</i>
9.30 am to 10.30 am	<u>XIE X. Sunney</u>	<i>Single – Molecule enzymology</i>
coffee break		
11.00 am to 12.00 am	<u>YEUNG Edward</u>	<i>Characterization of Single – Molecules in microenvironments</i>
12.00 am to 12.30 am	<u>WENNMALM Stefan</u>	<i>The fluctuating enzyme : a Single Molecule IApproach</i>
12.30 am to 1.00 pm	<u>BONNET Grégoire</u>	<i>Study of DNA conformational fluctuations by fluorescence correlation spectroscopy</i>
1.00 pm to 2.00 pm lunch		
2.00 pm to 5.00 pm	Posters, demos and discussions	
Afternoon session: Protein Folding and structure.		
5.00 pm to 6.00 pm	<u>HOCHSTRASSER Robin</u>	<i>Folding of GCN – 4 – fs on silica and structures of single LH2 complexes</i>
6.00 pm to 7.00 pm	<u>ROKHSAR Daniel</u>	<i>Transition states and intermediates in Single – Molecule models for protein folding</i>
7.00 pm to 7.30 pm	<u>EATON William A.</u>	<i>Kinetics and Mechanisms in Protein Folding</i>
Morning session: Protein folding and structure/Photo – physics on single molecules		
8.30 am to 9.30 am	<u>SCHMIDT Thomas</u>	<i>Dynamical behaviour of membrane components</i>
9.30 am to 10.30 am	<u>BARBARA Paul</u>	<i>Energy funnels, folded conformations and energy transfer domains in Single conjugated polymer molecules</i>
coffee break		
11.00 am to 12.00 am	<u>ADAMS Stephen</u>	<i>Targeting of fluorescent indicators in living cells</i>
12.00 am to 1.00 pm	<u>SCHENTER Greg</u>	<i>Statistical analysis of Single – Molecule enzymatic dynamics</i>
1.00 pm to 2.00 pm lunch		
2.00 pm to 5.00 pm	Posters, demos and discussions	
Afternoon session: Protein folding and structure/Photo – physics on single molecules		
5.00 pm to 6.00 pm	<u>GOLDMAN Yale</u>	<i>Single – Molecule structural dynamics by fluorescence polarization microscopy</i>
6.00 pm to 6.30 pm	<u>HOFKENS J.</u>	<i>Spectroscopy and microscopy of a single multichromophoric dendrimer macromolecule.</i>
6.30 pm to 7.00 pm	<u>ZHUANG Xiaowei</u>	<i>Folding/unfolding of single protein and RNA molecules observed by fluorescence</i>
7.00 pm to 7.30 pm	<u>ZOCCHI Giovanni</u>	<i>Plastic deformation of a protein</i>

Saturday
10th

Sunday
11th

Morning session: Molecular motors		
8.30 am to 9.30 am	<u>BERG Howard</u>	<i>Physiology of the flagellar rotary motor</i>
9.30 am to 10.30 am	<u>KINOSITA Kazuhiko</u>	<i>Huge and small tags for Single – Molecule physiology</i>
coffee break		
11.00 am to 12.00 am	<u>SPUDICH Jim</u>	<i>Single – Molecule biomechanics : the myosin family of molecular motors</i>
12.00 am to 12.30 am	<u>BERGER L.</u>	<i>Structural dynamics of myosin detected by single molecule fluorescence polarization.</i>
12.30 am to 1.00 pm	<u>ISHIJIMA Akihiko</u>	<i>Simultaneous Measurement of Individual ATPase and Mechanical Reactions by a Single Myosin - Molecule at Work</i>
1.00 pm to 2.00 pm lunch		
2.00 pm to 4.00 pm	Posters, demos and discussions	
Afternoon session: Molecular motors		
4.00 pm to 5.00 pm	<u>YANAGIDA Toshio</u>	<i>Single – Molecule imaging and nanomanipulation of molecular motors at work</i>
5.00 pm to 6.00 pm	<u>VALE Ronald</u>	<i>Tracking single molecule kinesin motility by fluorescence microscopy</i>
6.30 pm to 11.00 pm	Bus ride to visit <u>Montlouis</u> cellar and dinner	
Morning session: Single molecule technologies		
8.30 am to 9.30 am	<u>ORWAR Owe</u>	<i>Biochemical reaction dynamics in ultra small biomimetic containers</i>
9.30 am to 10.00 am	<u>ALLEN S.</u>	<i>Measurements of biomolecular interactions in pharmaceutical and immunodiagnostic</i>
10.00 am to 10.30 am	<u>AUER Manfred</u>	<i>Interfacing Novel Detection Technologies in Single Molecule Spectroscopy with Drug Discovery.</i>
coffee break		
11.00 am to 11.30 am	<u>SAUER M.</u>	<i>Detection, identification and handling of single biomolecules using semiconductor lasers and microelectrophoresis.</i>
11.30 am to 12.00 am	<u>UHL, Volker</u>	<i>From single molecule biophysics to single molecule biochemistry: Observation of reactions in the light microscope.</i>
12.00 am to 1.00 pm	<u>BRANTON Daniel</u>	<i>Prospects for nanopore sequencing</i>
1.00 pm to 2.00 pm lunch		
2.00 pm to 10.00 pm	Social event: visit of <u>Chenonceaux</u> and <u>Amboise</u>	
10.00 pm to ...	Tours by night	

Monday

12th

Tuesday

13th

Morning session: Theory of molecular motors / DNA

8.30 am to 9.30 am	<u>PROST Jacques</u>	<i>From single to many molecular motors</i>
9.30 am to 10.30 am	<u>MARKO John</u>	<i>Structure, Viscoelasticity and Plasticity of Mitotic Chromosomes</i>
coffee break		
11.00 am to 12.00 am	<u>HESLOT François</u>	<i>Time resolved force measurement on the opening and closing of DNA</i>
12.00 am to 1.00 pm	<u>LAVERY Richard</u>	<i>Modeling studies linking DNA mechanics, dynamics and recognition</i>
1.00 pm to 2.00 pm lunch		
2.00 pm to 5.00 pm	Posters, demos and discussions	
Afternoon session: DNA/ prospectives		
5.00 pm to 5.30 pm	SMITH Steven B.	<u>Polymerization and Mechanical Properties of Single RecA –DNA Filaments</u>
5.30 pm to 7.30 pm	Round table	Prospectives
8pm to next morning	Celebration of Bastille day. Firework and dancing	
Morning session: DNA/protein interactions		
8.30 am to 9.30 am	<u>BUSTAMANTE Carlos</u>	<i>Following transcription one molecule at a time</i>
9.30 am to 10.30 am	<u>GELLES Jeff</u>	<i>Studying motor enzymes one molecule at a time</i>
coffe break		
11.00 am to 11.30 am	T. Ha	<u>Kinetics of Single DNA unwinding by Rep Helicase</u>
11.30 am to 12.00 am	David Keller	<u>Mechanochemical Models for Molecular Motors</u>
12.00 am to 12.30 am	B.Maier	<u>Activity of DNA polymerase observed by elastic measurements on single DNA molecules</u>
12.30 am to 13.00 am	T. Strick	<u>Single –molecule analysis of TopoisomeraseII/DNA interactions</u>
12.30 Lunch and departure		

Wednesday 14th

Thursday 15th