OPAI Workshop - June 26 - 27, 2009 1st International Workshop on Dynamic Modeling of Oral, Pharyngeal and Laryngeal Complex for Biomedical Applications

Opening Cocktail			
5:00 - 7pm			
Welcome Reception (wine and cheese) Nobel Biocare Center 2151 Wesbrook Mall, UBC			
Friday June 26th, 2009			
Plenary Sessions			
9:00 - 5:00 Forestry Science Building, 1001 - 2424 Main Mall, UBC			
8:00-9:00	Breakfast and Regist		
9:00-10:00	Greetings and Introduction Each participant introduces themselves		
10:00-11:00	Session 1: Obstructiv 10:00 - 10:15	ve Sleep Apnea Plus Najib Ayas	Epidemiology and Health Consequences of Untreated Obstructive Sleep Apnea
	10:15 - 10:30	Richard Schwab	Pathogenesis of Obstructive Sleep Apnea
	10:30 - 10:45 10:45 - 11:00	John Fleetham Jason Amatoury	Treatments for OSA The Effect of Tracheal Displacement on Peri-pharyngeal Tissue Pressures - Preliminary Results from Animal and
			Modeling Studies
11:00 - 12:00	Plenary 1 Discussion Session		
12:00 - 1:30	Lunch		
1:30 - 2:30		naging and sensing of the OPAL complex	
	1:30 - 1:45 1:45 - 2:00	Maureen Stone Ghassan Hamarneh	A Preliminary Application of Principal Components Analysis to Tongue Motion Patterns Airway Segmentation using Crawlers and Optimal Paths
	2:00 - 2:15	Tim Bressman	The tongue: Two-dimensional views of a three-dimensional structure Progress towards Semi-automated Segmentation of Soft-tissue structure in the OPAL complex
	2:15 - 2:30	Tricia Pang	Progress towards semi-automated segmentation of sort-tissue structure in the OPAL complex
2:30 - 3:00	Coffee Break		
3:00 - 4:15	Session 3:Mastication 3:00 - 3:15	n and Swallowing Behaviours Jianwu Dang	Modeling of Swallowing Mechanism based on MRI Observation
	3:15 - 3:30	Chris Peck	Jaw motor plasticity in health and disease
	3:00 - 3:45 3:45 - 4:00	Art Miller Alan Hannam/Ian Stavness	Concepts on Pharyngeal Function and Scar Tissue Predicting Muscle Patterns for Hemimandibulectomy Models
	4:00 - 4:15	Ian Stavness	Hyolaryngeal Biomechanics Modeling with Intramuscular Stimulation Data
4:15 - 5:00 4:15 - 5:30	Plenary 3 Discussion Session Artisynth Tutorial		
6:30-8:00	Dinner	Location TBD	
Saturday June 27th, 2009			
8:00-9:00	Breakfast		
9:00-10:00	Plenary 4: Medical in 9:00 - 9:15	naging and sensing of the OPAL complex Ryan Swain and Jana Rieger	x II Integrating Structural and Functional Patient Data with the ArtiSynth Platform: A Technical Report
	9:15 - 9:30	Florian Vogt	Extraction of tongue shapes from MR data
	9:30 - 9:45 9:45 - 10:00	Chao-Min Wu Pierre Boulanger	Construction of a MRI-based 3D atlas of the Human Tongue for Biomechanical Tongue Modeling. Three Dimensional Tracking of Orthodontic Patients Using CBCT and Photogrammetry
9:45 - 10:30	Plenary 4 Discussion Session + coffee		
10:30 - 11:45	Plenary 5: Speech ar	nd Heads	
	10:30 - 10:45 10:45 - 11:00	Masaaki Honda Kiyoshi Honda	Production of Various Voice Qualities Using Mechanical Vocal Code Model Visualization of the hypopharyngeal cavities and vocal-tract acoustic modeling
	11:00 - 11:15	Kuratate Takaaki	Using 3D lip surface and MRI data to help build a speaker-specific
	11:15 - 11:30	Hani Yehia	Human Upper Airway 3D Image Registration for Patient Specific Model Generation
11:30 - 12:00	Plenary 5 Discussion Session		
12:00 - 1:30	Lunch		
1:30 - 2:15	Plenary 6: Faces & Heads		
	1:30 - 1:45 1:45 - 2:00	Mohammand Ali Nasari Marek Bucki	Biomechanical face model Finite Element Patient Specific Face Mesh Generation Featuring Muscles Insertion
	2:00 - 2:15	Pascal Perrier	Towards modeling the jaw with a soft body approach
2,20 2:15	2:15 - 2:30 Eric Vatikiotis-Bateson Spatial and temporal coupling between respiration-dependent systems		
2:30 - 3:15	Pleanary 6 Discussion Session + Coffee break		
3:15 - 4:00	Plenary 7: Fluids in t 3:15 - 3:30	he OPAL complex Peter Anderson	Modeling fluid flow in the airway using CFD with a focus on fricative acoustics
	3:30 - 3:45	Mark Nicosia	Biomechanical Analyses of Oropharyngeal Swallowing
	3:45 - 4:00	Lynne Bilston	Intramural mechanics of the human tongue during normal inspiration and inspiration with resistive loading
4.00 - 5.00	Plenany 7 Discussion	Section	-
4:00 - 5:00	Plenary 7 Discussion Session		

6:00-??? BBQ at Fernanda's House - directions given during the workshop.