## FINAL PROGRAM

	Monday, March 14 Short Courses		Tuesday, March 15	Wednesday, March 16	Thurdsday, March 17	
	Short (	Courses		Conference	34. Dynamic vocal fold imaging with combined optical coherence	
8:00 - 8:20	Registration		Welcome remarks and conference information: (Matias Zañartu, PhD)	Keynote talk: Where has all the power gone? Accounting for energy creation and loss in vocalization	tomography/laryngeal high-speed video endoscopy (Nicusor Iftimia, PhD)	
8:20 - 8:40			Keynote talk: Modeling of vocal fold vibration	(Ingo Titze, PhD)	35. Potential of endoscopic high speed imaging – current projects (Michael Döllinger, PhD)	
8:40 - 9:00				19. Highly resolved temporal analysis of the flow field in a synthetic human larynx model (Alexander Lodermeyer, Mr)	36. Analysis of spatial characteristics of the larynx using high- speed digital imaging (Ken - Ichi Sakakibara, PhD)	
9:00 - 9:20	Short Course 1, Part 1: Objective measurements of vocal fold vibration and phonatory function Jack Jiang, MD, PhD	Short Course 2, Part 1: From basic science to clinical application Michael Döllinger, PhD	<ol> <li>From in silico to in vivo: Applying Simulation to Laryngeal Surgery Planning (Ted Mau, MD, PhD)</li> </ol>	20. Subharmonic tone generation in an artificial vocal fold model (Stefan Kniesburges, PhD)	37. Cross Sectional Imaging of Phonating Human Vocal Fold in Vivo Using VCSEL Optical Coherence Tomography (Brian J. F. Wong, MD, PhD)	
9:20 - 9:40			<ol> <li>Surgical Modeling Using Dynamic Voice CT to Improve Voice Post Airway Reconstruction (Alessandro De Alarcon, MD)</li> </ol>	21. Intraglottal Vortices During Phonation (Sid Khosla, MD)	<ol> <li>Analysis of connected speech using high-speed videoendoscopy (Dimitar Deliyski, PhD)</li> </ol>	
9:40 - 10:00			<ol> <li>Comparing arytenoid adduction and infraglottal medialization to glottal medialization alone in an excised canine larynx model (Sid Khosla, MD)</li> </ol>	22. Simulations of Vocal Fold Replicas Containing Liquid-Filled Cavities (Scott Thomson, PhD)	39. Vocal fold oscillation patterns in soprano singers' high fundamental frequency phonation (Matthias Echternach, PhD)	
10:00 - 10:20			<ol> <li>Using the in vivo canine model to assess and treat laryngeal disorders (Dinesh Chetri, PhD)</li> </ol>	23. Computational Modeling of Flow-Structure-Acoustic Interaction inside an Simplified Airway during Voice Production (Xudong Zheng, PhD)	40. A new method to present high-speed data for laryngeal assessment based on Optical Flow computation (Gustavo Andrade, PhD)	
10:20 - 10:40						
10:40 - 11:00			5. Modeling voice production with time-delay systems: the larynx tube (Denisse Sciamarella, PhD)	24. Dynamic and energetic relevance of glottal jet asymmetry (Lucy Zhang,PhD)	41. The Impact of Glottal Closure on Speech Breathing (Elizabeth Heller Murray MS, SLP)	
11:00 - 11:20	Short Course 1, Part 2: Objective	Short Course 2, Part	<ol> <li>Modeling the pathophysiology of vocal hyperfunction (Matias Zañartu, PhD)</li> </ol>	25. Rethinking vocal fold contact: The role of viscous dissipation (Byron Erath, PhD)	42. Vocal fold opening and closing phase differences in children with and without bilateral lesions (Stephanie Zacharias, PhD)	
11:20 - 11:40	Objective measurements of vocal fold vibration and phonatory function Jack Jiang, MD, PhD	clinical application Michael Döllinger, PhD	7. Broadband synchronization of asymmetric vocal fold oscillators (Jorge Lucero, PhD)	26. Assessing the influence of intraglottal vortices on vocal fold dynamic (Sean Peterson, PhD)	43. Center of Vocal Fold Vibration during Initiation and Termination Phases (Melda Kunduk, PhD)	
11:40 - 12:00			8. Predicting Achievable Fundamental Frequency ranges in Vocalization Across Species (Ingo Titze, PhD)	27. The effect of vocal fold superior-inferior stiffness variation on sound production (Qian Xue, PhD)	44. Computerized tomography measures during and after artificial lengthening of the vocal tract in subjects with voice disorders (Marco Guzman, SPL)	
12:00 -12:20			9. Generation of diphthongs using finite elements in three- dimensional simplified vocal tracts (Marc Arnela, PhD)	28. Experimental study of the influence of a growth on a replica of the vocal folds (Xavier Pelorson, PhD)	45. Comparison of supraglottic activity and spectral slope between theater actors and vocally untrained subjects (Felipe Quintana Barahona, SPL)	
12:20 - 14:00	Lunch Break					
14:00 - 14:20	Short Course 3, Part 1: Using computer models to validate therapy and surgery approaches Ingo Titze, PhD	the human vocal folds Luc Mongeau, PhD	Keynote taik: Influence of phonation-related stresses on vocal fold reconstruction (Luc Mongeau, PhD)	29. Hysteresis and Relaxation of Vocal Fold Tissue and the Difference between Phonation Onset and Offset (Lewis Fulcher, PhD)	Keynote talk: Interdisciplinary voice research: The whole is more than the sum of its parts (Michael Döllinger, PhD)	
14:20 - 14 :40				30. An Empirical Equation for Posterior Glottal Flow (Ronald Scherer, PhD)		
14:40 - 15:00			Inflammation and Repair (Nicole Li, PhD)	31. Comparison of glottal flow rate predicted by inverse filtering and direct measurements (Liran Oren, PhD)	analysis algorithms (Brad Story, PhD)	
15:00 - 15:20			<ol> <li>Effect of Beta-Catenin signaling on cell proliferation in developing vocal folds and its potential for vocal fold regeneration and repair in adulthood (Vlasta Lunova, PhD)</li> </ol>	32. The influence of sound emission on the lamina propria of the ventricular fold (Andre Armani, MD)	<ol> <li>Effectiveness of recurrence quantification measures in discriminating patients with and without voice disorders (Leonardo Lopes, PhD)</li> </ol>	
15:20 - 15:40			12. Using RNA-Seq Characterization of Differently Expressed Genes from Larynx Responding to Smoking and Reflux (Xia Chen, PhD)	33. Computer controlled set-up for automated phonation excitation in excised larynx experiments (Veronika Birk, Ms)	48. Discriminating patients with vocal fold nodules from matched controls using acoustic and aerodynamic features from ambulatory voice monitoring data (Juan Pablo Cortés, MS)	
15:40 - 16:00 Coffe Break						
16:00 - 16:20	Chart Cause 2 Day		13. Aortic arch compliance and idiopathic left-sided vocal fold paralysis (Julie Barkmeier-Kraeme, PhD)		49. Constructing a subject-specific lumped-mass model from clinical data using Bayesian estimation (Gabriel Galindo, PhD-C)	
16:20 - 16:40	Short Course 3, Part 2: Using computer models to validate therapy and surgery approaches Ingo Titze, PhD	2: Tissue engineering of the human vocal folds Luc Mongeau, PhD	<ol> <li>Electrophysiological activity of the pharyngoesophageal segment and tracheoesophageal voice and speech proficiency in total laryngectomees (Hilton Ricz, MD, PhD)</li> </ol>	Poster session (See separate list of posters)	50. Phonation Type as a Function of the Activation of the Intrinsic Laryngeal Muscles (David Berry, PhD)	
16:40 - 17:00			15. Toward a Psychoacoustic Model of Spectral Noise in the Voice Source (Rosario Signorello, PhD)		51. Relative Fundamental Frequency Distinguishes Between Phonotraumatic and Non-Phonotraumatic Vocal Hyperfunction (Cara Stepp, PhD)	
17:00 - 17:20			16. Brain Mapping of Laryngeal Sensorimotor Control in Normal Phonation (Maryna Kryshtopava, PhD)		52. The Role of the Epilarynx in Clear Speech Production: An Acoustic Analysis (Elizabeth Godoy, PhD)	
17:20 - 17:40			17. Universal mechanisms of sound production and control in birds and mammals (Christian Herbst, PhD)		53. Vocal fold contact pressure estimation using laryngeal high speed videoendoscopy (Manuel Diaz Cadiz, MS)	
17:40 - 18:00			18. The Effect of Social Isolation on Vocalizations and Neuromuscular Junctions of Aged Rats (Aaron Johnson, PhD)		54. Phonation energy utilization and efficiency (Michael McPhail, PhD)	
19:00 - 21:00	Welcome Reception		Valparaiso Walking Tour	Gala Dinner	Technical USM Tour	
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Special Session: Virtual phonosurgery and other applications of numerical models, Chair: Ingo Titze. special Session: Viscous flow phenomena in laryngeal aerodynamics, Chair: Byron Erath Special Session: Challenges and advances in high-resolution endoscopic imaging, Chair: Daryush Mehta Special Session: Applying engineering methods for the clinical assessment of vocal function, Chair: Mara Behlau Regular Session 1 Chair: Cara Stepp Regular Session 2 Chair: Sean Peterson Poster session, Chair: Matias Zañartu Regular Session 3 Chair: Matias Zañartu